Appendix II
CAPACITY ALLOCATION OF
RENEWABLE ENERGY SOURCES FOR EACH PROVINCE
(Attached to Decision No. 768/QD-TTg
dated April 15, 2025 of the Prime Minister)

(This is the total additional capacity of each province compared to the approved Implementation Plan of Power Plan VIII)

Table 1: Additional hydropower capacity by province (MW)

No.	Region/Province	Phase 2025 - 2030 (MW)	Phase 2031 - 2035 (MW)	Note
A	**For small hydropower, increase by province.**			
	National total	**3,780.5**	**3,939.3**	
I	**North**	**2,411.5**	**2,067.3**	
1	Ha Giang	117.5	211.2	
2	Cao Bang	34	14	
3	Lao Cai	311.9	270.7	
4	Bac Kan	41.3	30	
5	Lang Son	24	24	
6	Tuyen Quang	31	30.9	
7	Yen Bai	228	209	
8	Thai Nguyen	30	30	
9	Phu Tho	10.2	0	
10	Quang Ninh	32	0	
11	Lai Chau	892	1,092.1	
12	Dien Bien	207	8.3	
13	Son La	411.6	147.2	
14	Hoa Binh	38	0	
15	Bac Giang	3	0	
16	Hanoi City	0	0	
17	Vinh Phuc	0	0	
II	**North Central Coast**	**147**	**192**	
1	Thanh Hoa	52.9	130	
2	Nghe An	33.2	22	
3	Ha Tinh	24.69	0	
4	Quang Binh	58	39	
III	**Mid-Central Coast**	**595**	**829**	
1	Quang Tri	63	151.8	
2	Hue City	31	51.9	
3	Quang Nam	318	438.3	
4	Quang Ngai	127	186.7	
5	Da Nang	55	0	
IV	**Central Highlands**	**306**	**380**	
1	Kon Tum	57.4	44	
2	Gia Lai	114	144.6	
3	Dak Lak	50	128.45	
4	Dak Nong	84.6	63	
V	**South Central Coast**	**277**	**397**	
1	Binh Dinh	62	63.5	
2	Phu Yen	48	60	
3	Khanh Hoa	8	2	
4	Ninh Thuan	29	28.5	
5	Binh Thuan	47	22	
6	Lam Dong	83	221.3	
VI	**Southern Vietnam**	**46**	**74**	
1	Binh Duong	13	23.1	
2	Binh Phuoc	28	40.9	

3	Dong Nai	0	0	
4	Tay Ninh	5	10	
5	Ba Ria - Vung Tau	0	0	
6	Kien Giang	0	0	
B	**For hydropower with capacity from 30 MW to under 50 MW, increase by province.**			
	National total	**462.3**		
I	**North**	**40.5**		
1	Lai Chau	40.5		
II	**North Central Coast**	**83**		
1	Thanh Hoa	38		
2	Nghe An	45		
III	**Central Central**	**48**		
1	Quang Tri	48		
IV	**South Central Coast**	**122**		
1	Binh Dinh	40		
2	Binh Thuan	46		
3	Lam Dong	36		
V	**Southern Vietnam**	**168.8**		
1	Binh Phuoc	78.8		
2	Dong Nai	90		

Table 2: Additional solar power capacity by province (MW)

No.	Province/City	Additional rooftop solar power		Concentrated electricity increased	
		Phase 2025 - 2030 (MW)	Phase 2031 - 2035 (MW)	Phase 2025 - 2030 (MW)	Phase 2031 - 2035 (MW)
I	**North**	**17950**	**1068**	**10306**	**9459**
1	Hanoi	894	54	483	9459 (By 2035, the proposed capacity from localities is smaller than the capacity required by the power system)
2	Hai Phong City	2092	124	100	
3	Hai Duong	1348	80	100	
4	Hung Yen	1189	71	57	
5	Ha Nam	1107	66	50	
6	Nam Dinh	601	36	223	
7	Thai Binh	610	36	50	
8	Ninh Binh	440	27	50	
9	Ha Giang	64	4	100	
10	Cao Bang	50	3	100	
11	Lao Cai	550	33	105	
12	Bac Kan	51	3	200	
13	Lang Son	492	29	100	
14	Tuyen Quang	76	5	198	
15	Yen Bai	500	30	1656	
16	Thai Nguyen	1019	60	220	
17	Phu Tho	595	35	100	
18	Vinh Phuc	1155	68	50	
19	Bac Giang	1674	99	100	
20	Bac Ninh	1528	91	50	
21	Quang Ninh	1418	84	400	
22	Lai Chau	50	3	1086	
23	Dien Bien	50	0	904	
24	Son La	50	5	3674	
25	Hoa Binh	347	21	150	
II	**North Central Coast**	**1041**	**210**	**1670**	**1529**
1	Thanh Hoa	373	68	440	164
2	Nghe An	232	49	350	0
3	Ha Tinh	313	68	440	1336
4	Quang Binh	123	26	440	28
III	**Mid-Central Coast**	**250**	**463**	**1444**	**2366**
1	Quang Tri	50	27	310	781
2	Hue City	50	136	397	1583
3	Da Nang City	50	102	50	0
4	Quang Nam	50	113	50	0
5	Quang Ngai	50	85	140	2
IV	**Central Highlands**	**200**	**0**	**6333**	**6513**
1	Kon Tum	50	0	660	0
2	Gia Lai	50	0	1030	0
3	Dak Lak	50	0	3349	4962
4	Dak Nong	50	0	1294	1551
V	**South Central Coast**	**300**	**88**	**4475**	**4388**
1	Binh Dinh	50	77	500	0
2	Phu Yen	50	11	1000	0
3	Khanh Hoa	50	0	100	0
4	Ninh Thuan	50	0	1974	3984
5	Binh Thuan	50	0	564	266
6	Lam Dong	50	0	337	138
VI	**Southern Vietnam**	**6635**	**14673**	**3654**	**10514**
1	Binh Phuoc	440	1258	678	4114
2	Tay Ninh	226	708	450	314
3	Binh Duong	1036	2486	55	1367

4	Dong Nai	1520	3075	1069	3942
5	Ba Ria - Vung Tau	985	1783	50	0
6	Ho Chi Minh City	374	981	20	0
7	Long An	999	2062	268	156
8	Tien Giang	149	296	50	0
9	Ben Tre	97	228	50	0
10	Tra Vinh	58	134	50	0
11	Vinh Long	110	221	50	0
12	Dong Thap	50	203	74	249
13	An Giang	50	95	80	0
14	Kien Giang	50	0	400	0
15	Can Tho City	199	390	50	0
16	Hau Giang	142	370	110	372
17	Soc Trang	50	183	50	0
18	Bac Lieu	50	0	50	0
19	Ca Mau	50	200	50	0

Table 3: Onshore and nearshore wind power capacity increase by province (MW)

No.	Province/City	Phase 2025 - 2030 (MW)	Phase 2031 - 2035 (MW)	Note
I	**North**	**2194**	**0**	
1	Hanoi	0	0	
2	Hai Phong City	0	0	
3	Hai Duong	0	0	
4	Hung Yen	0	0	
5	Ha Nam	0	0	
6	Nam Dinh	0	0	
7	Thai Binh	0	0	
8	Ninh Binh	0	0	
9	Ha Giang	0	0	
10	Cao Bang	0	0	
11	Lao Cai	0	0	
12	Bac Kan	266	0	
13	Lang Son	0	0	
14	Tuyen Quang	0	0	
15	Yen Bai	160	0	
16	Thai Nguyen	0	0	
17	Phu Tho	0	0	
18	Vinh Phuc	0	0	
19	Bac Giang	108	0	
20	Bac Ninh	0	0	
21	Quang Ninh	300	0	
22	Lai Chau	0	0	
23	Dien Bien	779	0	
24	Son La	580	0	
25	Hoa Binh	0	0	
II	**North Central Coast**	**3333**	**0**	
1	Thanh Hoa	364	0	
2	Nghe An	240	0	
3	Ha Tinh	1605	0	
4	Quang Binh	1124	0	
III	**Mid-Central Coast**	**510**	**0**	
1	Quang Tri	560	0	
2	Hue City	100	0	
3	Da Nang City	0	0	
4	Quang Nam	100	0	
5	Quang Ngai	0	0	
IV	**Central Highlands**	**2643**	**3496**	
1	Kon Tum	474	206	
2	Gia Lai	884	2129	
3	Dak Lak	1085	1162	
4	Dak Nong	200	0	
V	**South Central Coast**	**3254**	**250**	
1	Binh Dinh	1273	0	
2	Phu Yen	300	0	
3	Khanh Hoa	200	0	
4	Ninh Thuan	1039	0	
5	Binh Thuan	242	0	
6	Lam Dong	200	250	
VI	**Southern Vietnam**	**4212**	**2350**	
1	Binh Phuoc	0	0	
2	Tay Ninh	0	0	
3	Binh Duong	0	0	
4	Dong Nai	0	0	

5	Ba Ria - Vung Tau	100	6	
6	Ho Chi Minh City	0	0	
7	Long An	73	18	
8	Tien Giang	100	226	
9	Ben Tre	500	340	
10	Tra Vinh	1450	448	
11	Vinh Long	0	0	
12	Dong Thap	0	0	
13	An Giang	50	0	
14	Kien Giang	219	19	
15	Can Tho City	0	0	
16	Hau Giang	100	0	
17	Soc Trang	988	0	
18	Bac Lieu	346	351	
19	Ca Mau	387	942	

Table 4: Additional waste-to-energy and biomass-based power capacity by province (MW)

No.	Province/City	Waste electricity increased		Additional biomass electricity	
		Phase 2025 - 2030 (MW)	Phase 2031 - 2035 (MW)	Phase 2025 - 2030 (MW)	Phase 2031 - 2035 (MW)
	Nationwide	**1270**	**0**	**1510**	**1276**
I	**North**	**523**	**0**	**375**	**208**
1	Hanoi	220	0	6	4
2	Hai Phong	20	0	0	0
3	Hai Duong	0	0	0	0
4	Hung Yen	73	0	0	0
5	Ha Nam	0	0	0	0
6	Nam Dinh	35	0	34	19
7	Thai Binh	0	0	0	0
8	Ninh Binh	0	0	0	0
9	Ha Giang	0	0	32	18
10	Cao Bang	0	0	0	0
11	Lao Cai	12	0	32	18
12	Bac Kan	0	0	16	9
13	Lang Son	0	0	13	7
14	Tuyen Quang	0	0	32	18
15	Yen Bai	0	0	32	18
16	Thai Nguyen	10	0	6	4
17	Phu Tho	0	0	19	11
18	Vinh Phuc	0	0	0	0
19	Bac Giang	13	0	0	0
20	Bac Ninh	0	0	0	0
21	Quang Ninh	0	0	0	0
22	Lai Chau	0	0	6	4
23	Dien Bien	3	0	84	46
24	Son La	0	0	16	9
25	Hoa Binh	137	0	45	25
II	**North Central Coast**	**25**	**0**	**388**	**30**
1	Thanh Hoa	0	0	126	10
2	Nghe An	0	0	60	5
3	Ha Tinh	0	0	14	1
4	Quang Binh	25	0	188	14
III	**Mid-Central Coast**	**142**	**0**	**92**	**564**
1	Quang Tri	20	0	17	106
2	Hue	2	0	10	58
3	Danang	70	0	2	13
4	Quang Nam	50	0	56	344
5	Quang Ngai	0	0	7	43
IV	**Central Highlands**	**39**	**0**	**343**	**213**
1	Kon Tum	0	0	31	19
2	Gia Lai	30	0	171	106
3	Dak Lak	9	0	141	88
4	Dak Nong	0	0	0	0
V	**South Central Coast**	**117**	**0**	**165**	**0**
1	Binh Dinh	15	0	50	0
2	Phu Yen	10	0	115	0
3	Khanh Hoa	40	0	0	0
4	Lam Dong	40	0	0	0
5	Ninh Thuan	12	0	0	0
6	Binh Thuan	0	0	0	0
VI	**Southern Vietnam**	**425**	**0**	**146**	**261**
1	Ho Chi Minh	216	0	0	0

2	Binh Phuoc	0	0	79	121
3	Tay Ninh	0	0	0	0
4	Binh Duong	0	0	0	0
5	Dong Nai	58	0	0	0
6	Ba Ria - Vung Tau	25	0	3	7
7	Long An	72	0	20	42
8	Dong Thap	0	0	0	0
9	An Giang	8	0	26	54
10	Tien Giang	0	0	0	0
11	Vinh Long	0	0	0	0
12	Ben Tre	18	0	10	20
13	Kien Giang	20	0	0	0
14	Can Tho	0	0	150	0
15	Hau Giang	0	0	0	0
16	Tra Vinh	0	0	0	0
17	Soc Trang	9	0	8	17
18	Bac Lieu	0	0	0	0
19	Ca Mau	0	0	0	0

Table 5: Additional pumped storage hydropower capacity by province (MW)

Provinces	Phase 2025 - 2030 (MW)	Phase 2031 - 2035 (MW)
I. North	**1900**	**1400**
Lai Chau	300	400
Dien Bien	400	400
Son La	900	300
Bac Giang	300	300
II. North Central Coast	**831**	**0**
Thanh Hoa	126.5	
Ha Tinh	704.5	
III. Mid-Central Coast	**846**	**1795**
Quang Tri	246	1200
Da Nang		595
Quang Nam	300	
Quang Ngai	300	
IV. South Central Coast		**1200**
Binh Dinh		600
Ninh Thuan		
Lam Dong		600

Appendix III
LIST AND EXPECTED PROGRESS OF IMPORTANT NATIONAL POWER SOURCES AND GRID PROJECTS, PRIORITY PROJECTS OF THE ELECTRICITY INDUSTRY
(Attached to Decision No. 768/QD-TTg dated April 15, 2025 of the Prime Minister)

Appendix III.1
LIST AND EXPECTED PROGRESS OF IMPORTANT NATIONAL POWER SOURCE PROJECTS AND PRIORITY PROJECTS OF THE INDUSTRY

Table 1: List of LNG thermal power plants

No.	Project	Expected capacity (MW)	Operational phase	Note
1	LNG Quang Ninh	1500	2025-2030	
2	LNG Thai Binh	1500	2025-2030	
3	LNG Quang Trach II	1500	2025-2030	
4	LNG Hai Lang Phase 1	1500	2025-2030	
5	Nhon Trach 3 and Nhon Trach 4 Power Plants	1624	2025-2030	
6	LNG Hiep Phuoc Phase I	1200	2025-2030	
7	LNG Long An I	1500	2025-2030	
8	Son My I BOT Thermal Power Plant (*)	2250	2025-2030	
9	Son My II BOT Thermal Power Plant (*)	2250	2025-2030	
10	LNG Bac Lieu (*)	3200	2025-2030	
11	LNG Nghi Son (*)	1500	2025-2030	
12	LNG Ca Na (*)	1500	2025-2030	
13	LNG Quynh Lap (*)	1500	2025-2030	
14	LNG Hai Phong Phase I	1600	2025-2030	According to the commitment of Hai Phong City People's Committee in Document No. 583/UBND-UBND-XD2 dated March 26, 2025
15	LNG Hiep Phuoc Phase II	1500	2025-2030	According to the commitment of Ho Chi Minh City People's Committee in Document No. 1945/UBND-KT dated March 27, 2025
16	LNG Long Son (*)	1500	2031-2035	The People's Committee of Ba Ria - Vung Tau province proposed that the progress could be pushed forward to the 2025-2030 period according to the needs of the power system.
17	LNG Long An II	1500	2031-2035	
18	LNG Cong Thanh (**)	1500	2031-2035	Thanh Hoa Provincial People's Committee proposed to convert fuel from coal to LNG for Cong Thanh coal-fired power project. Document No. 5473/VPCP-CN dated July 31, 2024 of the Government Office on converting fuel from coal to LNG for Cong Thanh thermal power project, Thanh Hoa province. Can be pushed up to phase 2026-2030 according to the needs of the power system.
19	LNG Hai Phong Phase II (**)	3200	2031-2035	According to the commitment of Hai Phong City People's Committee in

				Document No. 583/UBND-UBND-XD2 dated March 26, 2025, the progress can be accelerated to the 2025-2030 period according to the needs of the power system.
20	LNG Vung Ang III (**)	1500	2031-2035	
21	LNG Quang Trach III (**)	1500	2031-2035	
22	Potential locations for new LNG development projects, backup for projects that are behind schedule or cannot be implemented.			Thai Binh, Nam Dinh, Thanh Hoa, Vung Ang, Quang Binh, Chan May, Da Nang, Van Phong, Mui Ke Ga, Tan Phuoc, Ben Tre, Ca Mau...

Note:

- The installed capacity of power plants can fluctuate within ± 15% and will be accurate, consistent with the capacity range of the generator in the Planning Implementation Plan, preparation phase and implementation of the construction investment project.

(*): Projects need solutions to ensure operational progress according to approved planning.

(**): New development projects in the 2031-2035 period serve the power supply in the Northern region.

Table 2: List of LNG thermal power plants for development

No.	Projects	Expected capacity (MW)	Operational phase	Note
1	LNG Quang Ninh 2	1500	2031-2035	Backup projects are developed in the period 2031-2035 and can only be implemented when approved by competent authorities to compensate for other power sources in the area that are behind schedule or have sudden increases in load.
2	LNG Thai Binh Phase 2	1500	2031-2035	
3	LNG Hoa Ninh Phase I	1500	2031-2035	
4	LNG Thanh Hoa	1500	2031-2035	
5	Expansion of Ca Mau 1&2 Thermal Power Plant	1500	2031-2035	

Table 3: List of coal-fired thermal power plants under construction

No.	Project	Expected capacity (MW)	Operational phase	Note
1	Na Duong II Thermal Power Plant	110	2025-2030	
2	An Khanh Thermal Power Plant - Bac Giang	650	2025-2030	
3	Vung Ang II Thermal Power Plant	1330	2025-2030	
4	Quang Trach I Thermal Power Plant	1403	2025-2030	
5	Long Phu I Thermal Power Plant	1200	2025-2030	

Table 4: List of coal-fired thermal power plants facing difficulties in implementation

No.	Project	Expected capacity (MW)	Operational phase	Note
1	Nam Dinh I Thermal Power Plant	1200	2025-2030	
2	Quang Tri Thermal Power Plant	1320	2025-2030	The investor has requested to stop the project (according to Document EGATi 277/2023)
3	Vinh Tan III Thermal Power Plant	1980	2025-2030	
4	Song Hau II Thermal Power Plant	2120	2025-2030	The Ministry of Industry and Trade has terminated the BOT Contract of the Project in Document 4579/BCT-DL dated July 1, 2024.

Table 5: List of cogeneration power sources, power sources using residual heat, blast furnace gas, and by-products of technological lines in industrial facilities

No.	Project	Expected capacity (MW)	Operational phase	Note
1	Hai Ha 1 Co-generation Plant	300	2025-2030	Investor establishes FS for 50 MW component project
2	Duc Giang Co-generation Plant	100	2025-2030	Lao Cai Provincial People's Committee issued Document No. 40/UBND-KT dated January 3, 2025 stating that the Investor had submitted a document requesting to "abandon" the project.
3	Formosa HT2	650	2025-2030	
4	Hoa Phat II Excess Gas Plant	300	2025-2030	Under construction
5	Thermal power plant of the project: VNT19 Pulp - Paper Mill	54	2025-2030	According to Document No. 1432/UBND-KTN dated March 18, 2025 of the People's Committee of Quang Ngai province
6	Hai Ha 2 Co-generation Plant	600	2031-2035	
7	Hai Ha 3 Co-generation Plant	600	2031-2035	
8	Hai Ha 4 Co-generation Plant	600	2031-2035	
9	Other projects	Prioritize and encourage the development of this type of electricity production to increase energy efficiency. The total capacity of this type is developed without limit, suitable for the needs and potential of industrial establishments.		

Table 6: List of domestic gas-fired thermal power plants

No.	Project	Expected capacity (MW)	Operational phase	Note
1	O Mon I Thermal Power Plant (*)	660	2025-2030	Use Lot B gas
2	O Mon II Thermal Power Plant	1050	2025-2030	
3	O Mon III Thermal Power Plant	1050	2025-2030	
4	O Mon IV Thermal Power Plant	1050	2025-2030	
5	Dung Quat I CCGT	750	2025-2030	Using Blue Whale gas, synchronized with upstream progress of the Blue Whale gas - power project chain.
6	Dung Quat II CCGT	750	2025-2030	
7	Dung Quat III CCGT	750	2025-2030	
8	Mien Trung I CCGTI	750	2025-2030	
9	Mien Trung II CCGT	750	2025-2030	
10	Quang Tri CCTG	340	2025-2030	Using Bao Vang gas, synchronized with upstream progress.

Note:

- The installed capacity of power plants can fluctuate within ± 15% and will be accurate, consistent with the capacity range of the generator in the Planning Implementation Plan, preparation phase and implementation of the construction investment project.

(*) Existing power plants switch to using Block B gas.

Table 7: List of large hydropower sources

No.	Project	Expected capacity (MW)	Operational phase	Conscious	Note
	Increased capacity added to 2025 - 2030	**2,958**			
1	Long Tao hydropower plant	44	2021-2024	Dien Bien	Already in operation
2	Song Lo 6 hydropower plant	60	2021-2024	Tuyen Quang	Already in operation
3	Song Lo 7 hydropower plant	36	2021-2024	Tuyen Quang	Already in operation
4	Pac Ma hydropower plant	160	2021-2024	Lai Chau	Already in operation
5	Suoi Sap 2A hydropower plant	49.6	2021-2024	Son La	Already in operation
6	Dak Mi 2 hydropower plant	147	2021-2024	Quang Nam	Already in operation
7	Song Tranh 4 hydropower plant	48	2021-2024	Quang Nam	Already in operation
8	Thuong Kon Tum hydropower plant	220	2021-2024	Kon Tum	Already in operation
9	Phu Tan 2 hydropower plant	93	2021-2024	Dong Nai	Already in operation
10	Hoa Binh hydropower plant Expansion	480	2025-2030	Peace	Approved in the VIII Plan
11	Yen Son hydropower plant	90	2025-2030	Tuyen Quang	Approved in the VIII Plan
12	Nam Cum hydropower plant 1,4,5	100.8	2025-2030	Lai Chau	Approved in the VIII PDP; Nam Cum 5 proposed to adjust from 10 MW to 15 MW
13	Nam Cum hydropower plant 2,3,6	83	2025-2030	Lai Chau	Approved in the VIII PDP; Nam Cum 6 proposed to adjust from 7 MW to 10.5 MW
14	Hoi Xuan hydropower plant	102	2025-2030	Thanh Hoa	Approved in the VIII Plan
15	My Ly hydropower plant	120	2025-2030	Nghe An	Approved in the VIII Plan
16	Nam Mo 1 hydropower plant (Vietnam)	51	2025-2030	Nghe An	Approved in the VIII Plan
17	Ialy hydropower plant Expansion	360	2025-2030	Gia Lai	Approved in the VIII Plan
18	Dak Mi 1 hydropower plant	84	2025-2030	Kon Tum	Approved in the VIII Plan
19	Tri An hydropower plant Expansion	200	2025-2030	Dong Nai	Approved in the VIII Plan
20	Song Lo 9 hydropower plant	87	2025-2030	Tuyen Quang	Tuyen Quang Provincial People's Committee proposed in Document No. 15/SCT-QLNL dated January 3, 2025.
21	Tuyen Quang hydropower plant Expansion	120	2025-2030	Tuyen Quang	Tuyen Quang Provincial People's Committee proposed in Document No. 15/SCT-QLNL dated January 3, 2025.
22	Se San 3	130	2025-2030	Gia Lai	Gia Lai Provincial People's

	hydropower plant Expansion				Committee proposed in Document No. 17/UBND-CNXD dated January 5, 2025.
23	Se San 4 hydropower plant Expansion	120	2025-2030	Gia Lai	Gia Lai Provincial People's Committee proposed in Document No. 17/UBND-CNXD dated January 5, 2025.
24	Ban Chat hydropower plant Expansion	110	2025-2030	Lai Chau	
25	Da Nhim hydropower plant Expansion (Phase 2)	80	2025-2030	Ninh Thuan	
26	Srepok 3 hydropower plant Expansion	110	2025-2030	Dak Lak	Dak Lak Provincial People's Committee proposed in Document No. 2285/UBND-CNXD dated March 1, 2025.
27	Buon Kuop hydropower plant Expansion	140	2025-2030	Dak Lak	Dak Lak Provincial People's Committee proposed in Document No. 2285/UBND-CNXD dated March 11, 2025.
28	Viet Thanh hydropower plant	55	2025-2030	Yen Bai	Yen Bai Provincial People's Committee proposed in Document No. 27/UBND-CN dated January 4, 2025.
29	An Binh hydropower plant	65	2025-2030	Yen Bai	Yen Bai Provincial People's Committee proposed in Document No. 27/UBND-CN dated January 4, 2025.
30	An Thinh hydropower plant	70	2025-2030	Yen Bai	Yen Bai Provincial People's Committee proposed in Document No. 27/UBND-CN dated January 4, 2025.
31	Bao Ha hydropower plant	75	2025-2030	Lao Cai	Lao Cai Provincial People's Committee proposed in Document No. 40/UBND-KT dated January 3, 2025.
32	Thai Nien hydropower plant	75	2025-2030	Lao Cai	Lao Cai Provincial People's Committee proposed in Document No. 40/UBND-KT dated January 3, 2025.
33	Suoi Hung hydropower plant	50	2025-2030	Peace	Document No. 338/UBND-KTN dated March 5, 2025 of the People's Committee of Hoa Binh province.
	Increased capacity Added to 2031-2035	**2,049**	**2031-2035**		
1	Son La Expansion	800	2031-2035	Son La	
2	Lai Chau Expansion	400	2031-2035	Lai Chau	
3	MR Hue Quang Expansion	260	2031-2035	Son La	
4	Se San 3A hydropower plant Expansion	54	2031-2035	Kon Tum	Kon Tum Provincial People's Committee proposed in Document No. 11/BC-UBND dated January 13, 2025.
5	Thuan My hydropower plant	250	2031-2035	Hanoi City	Hanoi City proposed in Document No. 536/SCT-QLNL dated February 5, 2025
6	Trung Son	130	2031-2035	Thanh Hoa	Document No. 2930/UBND-

	hydropower plant Expansion				CNXDKH dated March 7, 2025 of Thanh Hoa Provincial People's Committee.
7	A Vuong hydropower plant Expansion	105	2031-2035	Quang Nam	Quang Nam Provincial People's Committee proposed in Document No. 1827/UBND-KT dated March 7, 2025
8	Da Kho hydropower plant	50	2031-2035	Lam Dong	Lam Dong Provincial People's Committee proposed in Document No. 23/SCT-QLCN dated January 4, 2025.
9	Dak R'lap 1 hydropower plant (*)	53	2031-2035	Dak Nong, Lam Dong	Dak Nong Provincial People's Committee proposed in Document No. 1428/UBND-TH dated March 11, 2025
10	Dak R'lap 2 hydropower plant (*)	68	2031-2035	Dak Nong, Lam Dong	Dak Nong Provincial People's Committee proposed in Document No. 1428/UBND-TH dated March 11, 2025
11	Dak R'lap 3 hydropower plant (*)	82	2031-2035	Binh Phuoc	

Note:

(*) Potential projects approved under Decision No. 500/QD-TTg need to be carefully considered and assessed for their environmental, land and forest impacts.

Table 8: List of hydropower plants with capacity under 50 MW connected at voltage level 220 kV or higher

No.	Project	Expected capacity (MW)	Operational phase	Conscious	Note
	Additional capacity 2025-2030	**132.2**			
1	Se San 4A hydropower plant Expansion	29	2025-2030	Gia Lai	Document No. 538/UBND-CNXD dated March 7, 2025 of Gia Lai Provincial People's Committee (synchronous connection with 220 kV voltage level)
2	Muong Lat hydropower plant	45	2025-2030	Bar Chemistry	Document No. 2930/UBND-CNXDKH dated March 7, 2025 of Thanh Hoa Provincial People's Committee (synchronous connection with 220 kV voltage level)
3	Dong Van hydropower plant (increasing capacity)	29.8	2025-2030	Nghe An	Nghe An province proposes to increase capacity from 28 MW to 29.8 MW (synchronous connection with 220 kV voltage level)
4	Project on efficient use of water resources of Song Ba Ha Hydropower Plant	18	2025-2030	Phu Yen	EVN proposed in Document No. 862/EVN-KH dated February 11, 2025 (synchronous connection with 220 kV voltage level)
5	Song Bo hydropower plant	26	2025-2030	Thua Thien Hue	Thua Thien Hue province proposed to increase capacity from 23.6 MW (in operation) to 26 MW (synchronously connected to 220 kV voltage level)
6	Cam Son hydropower plant	36	2025-2030	Nghe An	Document No. 1673/UBND-KTN dated March 7, 2025 of Nghe An Provincial People's Committee (synchronous connection with 220 kV voltage level)
7	Thong Thu hydropower plant	28	2025-2030	Nghe An	Document No. 1673/UBND-KTN dated March 7, 2025 of Nghe An Provincial People's Committee (220 kV transmission line is transferred to 220 kV Nam Sum - Nong Cong transmission line)
8	Thai An hydropower plant Expansion	41	2025-2030	Ha Giang	Document No. 300/SCT-QLNL dated March 7, 2025 of Ha Giang Department of Industry and Trade
9	Da R'Sal hydropower plant	42	2025-2030	Lam Copper	Lam Dong Provincial People's Committee proposed in Document No. 2237/UBND-MT dated March 7, 2025
10	Ban Nga hydropower plant	24	2025-2030	Cao Bang	According to Decision No. 262/QD-TTg. Cao Bang proposed in Document No. 629/UBND-CN dated March 7, 2025. 220 kV Ban Nga Power Plant - branch to Nho Que 3 Power Plant - Cao Bang
	Increased capacity 2031-2035	**60**			
1	Se San 5 Hydropower Plant	30	2031-2035	Gia Lai	Document No. 538/UBND-CNXD dated March 7, 2025 of Gia Lai Provincial People's Committee (synchronous connection with 220 kV voltage level)
2	Song Ba Ha Hydropower Plant Expansion	30	2031-2035	Phu Yen	Document No. 1408/UBND-DTKT dated March 7, 2025 of Phu Yen Provincial People's Committee (synchronous

					connection with 220 kV voltage level)

Table 9: List of pumped storage hydropower plants

No.	Project	Expected capacity (MW)	Operational phase	Conscious	Note
1	Bac Ai Pumped Storage Hydropower Plant	1200	2025-2030	Ninh Thuan	Already in the VIII Resolution
2	Phuoc Hoa Pumped Storage Hydropower Plant	1200	2025-2030	Ninh Thuan	Already in the VIII Resolution
3	Dong Phu Yen Pumped Storage Hydropower Plant	900	2025-2030	Son La	Already in the 8th PDP, adjusting the operation phase
4	Don Duong 1 Pumped Storage Hydropower Plant	300	2025-2030	Lam Dong	Already in the 8th PDP, adjusting the operation phase
	Increased income (*)	**7,072**	**2025-2035**		
1	Sin Ho Pumped Storage Hydropower Plant Phase 1	300	2025-2030	Lai Chau	Document No. 961/UBND-KTN dated March 7, 2025
2	Sin Ho Pumped Storage Hydropower Plant Phase 2	400	2031-2035	Lai Chau	Document No. 961/UBND-KTN dated March 7, 2025
3	Dien Bien 3 Pumped Storage Hydropower Plant Phase 1	400	2025-2030	Dien Bien	Document No. 837/UBND-KT dated March 7, 2025
4	Dien Bien 3 Pumped Storage Hydropower Plant Phase 2	400	2031-2035	Dien Bien	Document No. 837/UBND-KT dated March 7, 2025
5	Dong Phu Yen Pumped Storage Hydropower Plant	300	2031-2035	Son La	Document No. 937/UBND-KTN dated March 7, 2025
6	Cam Son 1 Pumped Storage Hydropower Plant	300	2025-2030	Bac Giang	Document No. 1213/UBND-KTTH dated March 8, 2025
7	Cam Son 2 Pumped Storage Hydropower Plant	300	2031-2035	Bac Giang	Document No. 12I3/UBND-KTTH dated March 8, 2025
8	Song Muc - Dong Lon Pumped Storage Hydropower Plant	110	2025-2030	Thanh Hoa	Document No. 2930/UBND-CNXDKH dated March 7, 2025
9	Yen My - Bong Pumped Storage Hydropower Plant	16.5	2025-2030	Thanh Hoa	Document No. 2930/UBND-CNXDKH dated March 7, 2025
10	Kim Son - Thuong Song Tri Pumped Storage Hydropower Plant	530	2025-2030	Ha Tinh	Document No. 1200/UBND-KT2 dated March 5, 2025
11	Ke Go - Boc Nguyen Pumped Storage Hydropower Plant	174.5	2025-2030	Ha Tinh	Document No. 1200/UBND-KT2 dated March 5, 2025
12	Cam Lo Pumped Storage Hydropower Plant	246	2025-2030	Quang Tri	Document No. 854/UBND-KT dated March 7, 2025
13	Cam Lo Pumped Storage Hydropower Plant Phase 2	1200	2031-2035	Quang Tri	Document No. 854/UBND-KT dated March 7, 2025
14	Danang Pumped Storage Hydropower Plant Phase 1	595	2031-2035	Danang	Document No. 1316/UBND-SCT dated March 7, 2025
15	A Vuong Pumped	300	2025-2030	Quang Nam	Document No. 1827/UBND-KT

	Storage Hydropower Plant				dated March 7, 2025
16	Ba To Pumped Storage Hydropower Plant Phase 1	300	2025-2030	Quang Ngai	Document No. 1230/UBND-KTN dated March 7, 2025
17	Vinh Thanh Pumped Storage Hydropower Plant	600	2031-2035	Binh Dinh	Document No. 1799/UBND-KT dated March 7, 2025
18	Don Duong 2,3 Pumped Storage Hydropower Plant (**)	600	2031-2035	Lam Dong	Document No. 2237/UBND-MT dated March 7, 2025

Note:

(*) Projects are determined based on priority based on the proposed list of localities. Consideration may be given to larger scale development depending on the needs of the power system.

(**): Total project scale is 1,200 MW.

Table 10: List of proposed nuclear power sources (MW)

No.	Project	Expected capacity (MW)	Operational phase
1	Ninh Thuan 1 Nuclear Power Plant	2,000- 3,200	2030-2035
2	Ninh Thuan 2 Nuclear Power Plant	2,000 - 3,200	2030-2035

Table 11: Projected portfolio of battery storage projects (MW)

No.	Project	Expected capacity (MW)	Operational phase	Note
1	50 MW battery storage project	50	2025-2030	MWh capacity will be determined during deployment.
2	7 MW battery storage project integrated into 50 MW solar farm	7	2025-2030	
3	105 MW battery storage project integrated into 400 MW solar farm	105	2025-2030	
4	Other battery storage projects	138	2025-2030	
5	Installing BESS system at Krong Pa Thermal Power Plant	7	2025-2030	Medium voltage connection
6	Installing BESS system at Krong Pa 2 Solar Power Plant	7	2025-2030	
7	BESS Energy Storage Battery System Project for Hai Anh Solar Power Plant	4	2025-2030	Internal factory connection
8	Extra battery storage	About 20,287	2025-2035	Concentrated solar power projects must install storage batteries with a minimum capacity of 10% of the project's installed capacity, stored for 2 hours; the remaining battery capacity is installed on the power system depending on operating needs.

Table 12: List of proposed onshore and nearshore wind power projects approved in Power Plan VIII, Power Plan VIII Implementation Plan

No.	Project	Expected capacity (MW)	Operational phase	Connection plan	Note
	Dien Bien Province	**300**			
1	BCG Dien Bien 1 Wind Power Plant	175	2025-2030	220kV single circuit line connecting from BCG Dien Bien 1 power plant substation to Dien Bien 220kV station	Decision 262/QD-TTg
2	Envision Nam Po Wind Power Plant	125	2025-2030	Transition connection on 220kV Nam Po - Lai Chau line to 500kV Lai Chau transformer station	Decision 262/QD-TTg
	Bac Kan Province	**400**			
1	Thien Long Ngan Son Wind Power Plant	130	2025-2030	220kV single circuit transmission line from 220kV station of Thien Long - Ngan Son power plant to 220kV busbar at 220kV Bac Kan substation	Decision 1682/QD-TTg
2	Ngan Son Wind Power Plant	150	2025-2030		Decision 262/QD-TTg
3	Thien Long Cho Moi Wind Power Plant	120	2025-2030	220kV double circuit transmission line from 220kV station of Thien Long - Cho Moi power plant transferred onto 220kV Bac Kan - Thai Nguyen transmission line	Decision 262/QD-TTg
	Yen Bai Province	**200**			
1	Nam Bung Wind Power Plant	200	2025-2030	220kV two-circuit transition connection on 220kV Huoi Quang - Nghia Lo line	Decision 262/QD-TTg
	Bac Giang Province	**470**			
1	Bac Giang 1 Wind Power Plant	55	2025-2030	110 kV single circuit line connected to 110kV expanded busbar of Bac Lung 110kV substation	Decision 262/QD-TTg
2	Bac Giang 2 Wind Power Plant	55	2025-2030	110 kV line connected forward on 1 circuit 110 kV Son Dong line - 220 kV Son Dong substation	Decision 262/QD-TTg
3	Cam Ly Wind Power Plant	55	2025-2030	110kV single circuit line connected to 110kV Bac Lung transformer station	Decision 262/QD-TTg
4	Tan Son Wind Power Plant	50	2025-2030	110 kV single circuit line connected to 110kV Luc Ngan substation	Decision 262/QD-TTg
5	SD Son Dong Wind Power Plant	105	2025-2030	110kV double circuit line connected to 110kV Son Dong substation	Decision 262/QD-TTg
6	Yen Dung Wind Power Plant	150	2025-2030	110kV double circuit line connected to 110kV Son Dong substation	Decision 262/QD-TTg
	Lang Son Province	**1 4 1 4**			
1	Ai Quoc Wind Power Plant	100	2025-2030	220 kV double circuit line connected to 220 kV Lang Son 1 - Dong Mo line	Decision 262/QD-TTg

2	Binh Gia Wind Power Plant	80	2025-2030	110kV double circuit transmission line of Binh Gia power plant connects transit to 110kV Lang Son - Binh Gia transmission line	Decision 262/QD-TTg
3	Cao Loc Wind Power Plant	55	2025-2030	110kV single circuit line connected to 110kV Cao Loc substation	Decision 262/QD-TTg
4	Cao Loc 3 Wind Power Plant	69	2025-2030	220kV double circuit line connecting Cao Loc 3 power plant substation to Lang Son 220kV substation	Decision 262/QD-TTg
5	Chi Lang Wind Power Plant	100	2025-2030	220kV double circuit transmission line transit connection to 220kV Lang Son 1 - Dong Mo transmission line	Decision 262/QD-TTg
6	Cao Loc 1 Wind Power Plant	50	2025-2030	220kV double circuit transmission line transit connection to 220kV Lang Son - Bac Giang transmission line	Decision 262/QD-TTg
7	Cao Loc 1.1 Wind Power Plant	50	2025-2030	Install an additional 01 33/220kV transformer, capacity 63MVA at the 220kV booster station of Cao Loc 1 Power Plant to connect to Cao Loc 1.1 Power Plant.	Decision 262/QD-TTg
8	Dinh Lap Wind Power Plant	100	2025-2030	Construction of 220kV substation and 220kV single circuit line connecting to 220kV busbar of Lang Son 1 substation	Decision 262/QD-TTg
9	Dinh Lap 1 Wind Power Plant	50	2025-2030	110 kV double circuit transmission line from 110 kV Dinh Lap 1 transformer station connected to 110 kV busbar of 220 kV Lang Son 1 transformer station	Decision 262/QD-TTg
10	Dinh Lap 1.1 Wind Power Plant	50	2025-2030	Install an additional 110kV transformer with a capacity of 63MVA at the 110kV booster station of Dinh Lap 1 Power Plant to connect to Dinh Lap 1.1 Power Plant.	Decision 262/QD-TTg
11	Dinh Lap 4 Wind Power Plant	90	2025-2030	220kV single circuit line connecting Dinh Lap 4 power plant substation to 220kV busbar of Lang Son 1 substation	Decision 262/QD-TTg
12	Dinh Lap 5 Wind Power Plant	100	2025-2030	220kV double circuit line connecting Dinh Lap 5 power plant substation to 220kV busbar of Lang Son 1 substation	Decision 262/QD-TTg
13	Van Quan 1 Wind Power Plant	50	2025-2030	110kV double circuit transmission line transit connection to 110kV transmission line, 220kV Lang Son - Binh Gia substation	Decision 262/QD-TTg
14	Huu Kien Wind Power Plant	90	2025-2030	220kV double circuit transmission line from Huu Kien Power Plant to connection to 220kV substation of Chi Lang Power Plant	Decision 262/QD-TTg
15	Loc Binh Wind Power Plant	60	2025-2030	220kV double circuit transmission line transit connection to 220kV Lang Son 1 - Dong Mo transmission line	Decision 262/QD-TTg
16	Loc Binh – Pharbaco Wind Power Plant	50	2025-2030	220kV single circuit line connected to 220kV substation of Cao Loc 1 power plant	Decision 262/QD-TTg
17	Loc Binh 1 Wind Power Plant	50	2025-2030	220kV double circuit line connected to 220kV busbar of Lang Son 1 substation	Decision 262/QD-TTg
18	Loc Binh 3 Wind Power Plant	60	2025-2030	220kV single circuit line connected to 220kV busbar of Lang Son 1 substation	Decision 262/QD-TTg
19	Thang Long 3 Wind Power Plant	50	2025-2030	220kV single circuit line connected to 220kV busbar of 220kV Dong Mo substation	Decision 262/QD-TTg

20	Van Lang 1 Wind Power Plant	80	2025-2030	110kV single circuit line connected to 110kV busbar of 220kV Lang Son substation	Decision 262/QD-TTg
21	Van Quan Wind Power Plant	30	2025-2030	110kV double circuit transmission line transit connection to 110kV Lang Son station - 110kV Dong Mo station	Decision 262/QD-TTg
	Quang Ninh Province	**370**			
1	Quang Ninh Wind Power Plant 1	100	2025-2030	220kV double circuit line from factory to 220kV Quang Ninh 1 station	Decision 1682/QD-TTg
2	Quang Ninh 2 Wind Power Plant	70	2025-2030	110kV single circuit line connected to 110kV Van Don 3 station	Decision 1682/QD-TTg
3	Quang Ninh 3 Wind Power Plant	50	2025-2030	110kV single circuit transmission line of Quang Ninh 3 Power Plant - 220kV Hai Ha substation or XDM 220kV double circuit transmission line from the factory to 220kV Hai Ha substation or XDM 220kV double circuit transmission line from the factory to 220kV Cong Hoa substation	Decision 1682/QD-TTg
4	Quang Ninh Wind Power Plant 4	50	2025-2030	110kV single circuit transmission line of Quang Ninh 4 wind power plant - 110kV Co To station	Decision 1682/QD-TTg
5	Quang Ninh Wind Power Plant 5	100	2025-2030	220kV double circuit line from the factory to Mong Cai 220kV substation.	Decision 1682/QD-TTg
	Thai Binh Province	**70**			
1	Tien Hai - Thai Binh Wind Power Plant	70	2025-2030		Decision 262/QD-TTg
	Thai Nguyen Province	**100**			
1	BPC Vo Nhai Wind Power Plant	100	2025-2030	110 kV line connected to 110kV Vo Nhai station	Decision 1682/QD-TTg
	Son La Province	**400**			
1	Ta Xua - Bac Yen Wind Power Plant	72	2025-2030	220 kV Line Ta Xua Wind Power Plant - Bac Yen - Hong Ngai Wind Power Plant - Bac Yen	Decision 1682/QD-TTg
2	Hong Ngai - Bac Yen Wind Power Plant	108	2025-2030	220 kV Line, Hong Ngai - Bac Yen - Son La Branch - Viet Tri	Decision 1682/QD-TTg
3	Phu Yen Wind Power Plant	70	2025-2030	110kV single circuit line connected to 220kV HATACO Bac Yen station	Decision 1682/QD-TTg
4	Risen Phu Yen Wind Power Plant	80	2025-2030	220 kV Line Risen Phu Yen Power Plant - Son La Branch - Viet Tri	Decision 1682/QD-TTg
5	Thien Vu Bac Yen Wind Power Plant	70	2025-2030	220 kV Transmission Line Thien Vu Bac Yen - Son La Branch - Viet Tri	Decision 1682/QD-TTg
	Thanh Hoa Province	**300**			
1	Bac Phuong - Nghi Son Wind Power Plant	100	2025-2030	220kV Bac Phuong - Nghi Son Power Plant Line - 220kV Nong Cong branch - 220kV Nghi Son	Decision 262/QD-TTg
2	Muong Lat Wind Power Plant	200	2025-2030	220kV Muong Lat Power Plant - 220kV Trung Son Hydropower Plant	Decision 262/QD-TTg

	Nghe An Province	**70**			
1	Nam Dan Wind Power Plant - Phase 1	70	2025-2030	220kV double circuit transmission line, forward connection on 220kV Do Luong - Hung Dong transmission line	Decision 262/QD-TTg
	Ha Tinh Province	**700**			
1	HBRE Ha Tinh Wind Farm	120	2025-2030	110kV double circuit transmission line transit connection to 110kV Ky Anh - Vung Ang transmission line	Decision 262/QD-TTg
2	Cam Xuyen 1 Wind Power Plant	70	2025-2030	220kV double circuit line, forward connection on 500/220kV Ha Tinh - 220kV Vung Ang power plant line	Decision 262/QD-TTg
3	Ky Khang Wind Power Plant - Phase 1	60	2025-2030	220kV double circuit transmission line transit connection to 220kV Vung Ang - Ha Tinh transmission line	Decision 262/QD-TTg
4	Cam Xuyen 2 Wind Power Plant	100	2025-2030	220kV double-circuit line is forward-connected on the 500/220kV Ha Tinh - 220kV Vung Ang Thermal Power Plant line or 500/220kV Ha Tinh - 220kV Formosa Thermal Power Plant line	Decision 262/QD-TTg
5	Ky Anh Wind Power Plant DT2, DT3	99	2025-2030	220kV double circuit transmission line transit connection to 220kV Vung Ang - Ha Tinh transmission line	Decision 1682/QD-TTg
6	Cam Xuyen Wind Power Plant - Phase 1 (onshore part)	84	2025-2030	220kV double circuit transmission line transit connection to 220kV Vung Ang - Ha Tinh transmission line	Decision 1682/QD-TTg
7	Ky Nam Wind Power Plant	167	2025-2030	220kV double circuit transmission line transit connection to 220kV Vung Ang - Dong Hoi transmission line	Decision 1682/QD-TTg
	Quang Binh Province	**520**			
1	Ngu Thuy Bac Tan Hoan Cau Wind Power Plant (nearshore wind power)	80	2025-2030	220kV double-circuit transmission line from Ngu Thuy Bac Tan Hoan Cau power plant to connect to 220kV Le Thuy substation or build 220kV double-circuit transmission line from Ngu Thuy Bac Tan Hoan Cau power plant to 220kV Quang Binh substation 1	Decision 1682/QD-TTg,
2	Thai Duong 1 Wind Power Plant (nearshore wind power)	80	2025-2030	220 kV single circuit line connected to 220kV busbar of 220kV Ba Don substation	Decision 1682/QD-TTg
3	Hai Ninh Wind Power Plant Cluster (nearshore wind power)	80	2025-2030	220kV double circuit transmission line to 220kV Dong Hoi substation or 220kV double circuit transmission line from Hai Ninh power plant to 220kV Quang Binh substation 2	Decision 1682/QD-TTg
4	Hal Com Hong Duc Wind Power Plant (nearshore wind power)	80	2025-2030	Transition connection to the 220kV Dong Hoi - Dong Ha line, circuit 2 via the 220kV switching station. Newly construct a single-circuit 220kV line from the 220kV Hong Duc Halcom Power Plant substation to the 220kV switching station. Newly construct a 220kV switching station connected in series to the 220kV Dong Hoi - Dong Ha line, circuit 2	Decision 1682/QD-TTg
5	Phuc Loc Tho Wind Power Plant (nearshore wind power)	80	2025-2030	Construction of 35/500kV substation with total capacity of 900MVA at Phuc Loc Tho wind power plant; Construction of 500kV single circuit transmission line from Phuc Loc Tho wind	Decision 1682/QD-TTg

				power plant connecting to 500kV busbar of Quang Trach power plant	
6	Quang Binh 2 Wind Farm	30	2025-2030	Transition connection on 220kV Ba Don - Formosa Power Plant	Decision 1682/QD-TTg
7	Thanh Son Wind Power Plant (including Thanh Son 1 and Thanh Son 2)	30	2025-2030	Transition connection on 220kV Dong Hoi - Ba Don - Formosa line	Decision 1682/QD-TTg
8	Le Thuy 3 Wind Power Plant	30	2025-2030	220kV double circuit line from Le Thuy 3 factory connected to busbar of Le Thuy 220 substation	Decision 1682/QD-TTg
9	Le Thuy 3 Wind Power Plant, Phase 3	30	2025-2030	220kV double circuit line from Le Thuy 3 factory connected to Le Thuy 220 substation busbar	Decision 1682/QD-TTg
	Quang Ngai Province	**48**			
1	Wind power plant around Binh Son Refinery and Petrochemical Plant	48	2025-2030		Decision 1682/QD-TTg
	Quang Tri Province	**448**			
1	LIG Huong Hoa 1 Wind Power Plant	48	2025-2030	The 220kV line connecting to the 220kV transformer station of LIG Huong Hoa 1 Power Plant has its starting point at the 220kV transformer station of LIG Huong Hoa 1 Power Plant and its ending point at the 220kV transformer station of Huong Tan Power Plant in Huong Tan commune, Huong Hoa district, Quang Tri province.	Decision 1682/QD-TTg
2	LIG Huong Hoa 2 Wind Power Plant	48	2025-2030	220KV single circuit line connected to 35/220kV transformer station LIG Huong Hoa 1. Shared 220kV line LIG Huong Hoa 1 to 35/220KV transformer station Huong Tan.	Decision 1682/QD-TTg
3	TNC Quang Tri 1 Wind Power Plant	50	2025-2030	220kV single circuit line connected to 220kV Huong Tan substation	Decision 1682/QD-TTg
4	TNC Quang Tri 2 Wind Power Plant	50	2025-2030	22kV 04-circuit line from TNC Quang Tri 2 Power Plant connects to 22/220kV substation of Quang Tri 1 Power Plant	Decision 1682/QD-TTg
5	Quang Tri Win 1 Wind Power Plant	48	2025-2030	XDM 220kV TBA Quang Tri Win 1-2 connects to 220kV TBA Huong Tan, expands 01 bay of 220kV TBA Huong Tan	Decision 1682/QD-TTg
6	Quang Tri Win 2 Wind Power Plant	48	2025-2030	Connect to 220kV Quang Tri Win 1 -2 substation	Decision 1682/QD-TTg
7	Quang Tri Win 3 Wind Power Plant	48	2025-2030	Construction of 220kV Quang Tri Win 3 substation connecting to 220kV Tai Tam substation, expansion of 01 bay of 220kV Tai Tam substation	Decision 1682/QD-TTg
8	Hung Bac Wind Power Plant	30	2025-2030	Connection to 220kV busbar of 220kV Tai Tam substation	Decision 1682/QD-TTg
9	TK Power Wind Power Plant	48	2025-2030	220kV single circuit line from 35/220kV step-up station of TK Power Plant connected to 220kV substation of Tai Tam Plant	Decision 1682/QD-TTg
10	Duc Thang 2 Wind Power Plant	42	2025-2030	220 kV single circuit line connected to 220kV Tai Tam substation	
11	SCI Tan Thanh Wind Power Plant	30	2025-2030	220kV single circuit line from SCI Tan Thanh power plant to Lao	Decision 1682/QD-TTg

				Bao 500kV substation (Huong Hoa). Construct a 220kV bay at Lao Bao 500kV substation (Huong Hoa) for connection	
12	Cam Lo Wind Power Plant	200	2025-2030	220 kV line connected on 1 circuit 220 kV line Dong Ha - Lao Bao	
	Kon Tum Province	**154**			
1	Tan Nhat - Dak Glei Wind Power Plant	50	2023-2030		Decision 1682/QD-TTg
2	Sac Ly - Kon Tum Wind Power Plant	104	2025-2030	220kV double circuit transmission line connected to 01 circuit of 220kV transmission line 220kV Bo Y switching station - 500kV Pleiku 2 substation	Decision 1682/QD-TTg
	Gia Lai Province	**1011.3**			
1	Hung Hai Gia Lai Wind Power Plant	96	2023-2030		Decision 1682/QD-TTg
2	Ia Le 1 Wind Power Plant	52.8	2023-2030		Decision 1682/QD-TTg
3	Cho Long Wind Power Plant	105.5	2023-2030		Decision 1682/QD-TTg
4	Yang Trung Wind Power Plant	145	2023-2030		Decision 1682/QD-TTg
5	Ia Boong - Chu Prong Wind Power Plant	50	2025-2030	220 kV Ia Boong - Chu Prong - Nhon Hoa 1 DG	Decision 1682/QD-TTg
6	Phu My Wind Power Plant	42	2025-2030	220kV line connected to 35/220kV Hoang An station	Decision 1682/QD-TTg
7	Hoang An Wind Power Plant	42	2025-2030	Connecting 220kV line to 500kV Pleiku 3 substation	Decision 1682/QD-TTg
8	Xa Trang Wind Power Plant	100	2025-2030	220kV line connected to 220kV busbar of 500kV Pleiku 3 substation	Decision 1682/QD-TTg
9	Thang Hung Wind Power Plant	42	2025-2030	220kV line connected to 220kV busbar of 500kV Pleiku 3 substation	Decision 1682/QD-TTg
10	Nhon Hoa 3 Wind Power Plant	42	2025-2030	Installing a new 33/220kV transformer, capacity 63MVA at 220kV Nhon Hoa 1 transformer step-up substation (connecting to 220kV side of 500kV Nhon Hoa substation) to connect to Nhon Hoa 3 power plant	Decision 1682/QD-TTg
11	Nhon Hoa 4 Wind Power Plant	42	2025-2030	Installing a new 33/220kV transformer, capacity 63MVA at Nhon Hoa 1 220kV step-up transformer station (connecting to the 220kV side of Nhon Hoa 500kV substation) to connect to Nhon Hoa 4 power plant.	Decision 1682/QD-TTg
12	Ia Ko 1 Wind Power Plant	42	2025-2030	220kV single circuit line connected from 33/220kV step-up station busbar of Ia Ko 1 power plant connected to 220kV busbar of 500kV Nhon Hoa substation	Decision 1682/QD-TTg
13	Ia Ko 2 Wind Power Plant	42	2025-2030	Installing a new 01 33/220kV transformer, capacity 63MVA at the 220kV booster station of Ia Ko 1 Power Plant to connect to Ia Ko 2 Power Plant.	Decision 1682/QD-TTg
14	Ia Blu 1 Wind Power Plant	42	2025-2030	220kV transmission line from 220kV transformer station of La Blu	Decision 1682/QD-TTg

				1 Power Plant transferred on 220kV transmission line from 500kV station Pleiku 2 - Chu Se - Krong Buk	
15	Lo Pang - Gia Lai Wind Power Plant	42	2025-2030	220kV transmission line transitions the 220kV Pleiku 2 - An Khe line and the 220kV Pleiku - An Khe power plant line	Decision 1682/QD-TTg
16	Chu Se 1 Wind Power Plant	42	2025-2030	220kV transmission line from 220kV transformer station of Chu Se 1 power plant to 220kV busbar of 220kV Chu Se transformer station	Decision 1682/QD-TTg
17	Ia Le 2 Wind Power Plant (belonging to Ia Le Wind Power Plant Cluster)	42	2025-2030	220kV transmission line 220kV Pleiku 2 - Krong Buk transmission line	Decision 1682/QD-TTg
	Dak Lak Province	**862**			
1	Cu Ne 1 Wind Power Plant	50	2025-2030	220 kV transmission line connecting Cu Ne 1, Cu Ne 2, Krong Buk 1, Krong Buk 2 transmission lines via 220 kV Krong Buk transmission substation to 220 kV Pleiku 2 - Krong Buk transmission line	Decision 262/QD-TTg
2	Cu Ne 2 Wind Power Plant	50	2025-2030		Decision 262/QD-TTg
3	Krong Buk 1 Wind Power Plant	50	2025-2030		Decision 262/QD-TTg
4	Krong Buk 2 Wind Power Plant	50	2025-2030		Decision 262/QD-TTg
5	Easin 1 Wind Power Plant	100	2025-2030	220 kV line of Easin 1 power plant - 220 kV Cu Ne double-circuit switching station. Construction of 220 kV Cu Ne switching station and 220 kV four-circuit line of Cu Ne - Pleiku 2 - Krong Buk branch (transition on both circuits of 220 kV line of Pleiku 2 - Krong Buk)	Decision 262/QD-TTg
6	Krongbuk 3 Wind Power Plant	100	2025-2030	Expanding 01 outdoor type 35/220 kV transformer compartment of Ea Sin 1 power plant with the following scale: 01 35/220 kV - 125 MVA transformer compartment connected to Krong Buk 3 power plant, increasing the capacity of Easin 1 power plant's step-up transformer station to 2x125 MVA. Taking advantage of the connection infrastructure of Easin 1 power plant	Decision 262/QD-TTg
7	Thuan Phong Wind Power Plant Dak Lak	100	2025-2030	Transition connection on 220kV Krong Buk - Nha Trang line	Decision 262/QD-TTg
8	Tan Lap - Ea Ho Wind Power Plant	50	2025-2030	110kV double circuit transmission line connected forward on 110kV Krong Buk - Krong Nang transmission line.	Decision 262/QD-TTg
9	Cu Pong 1,2 Wind Power Plant	80	2025-2030	220kV double-circuit transmission line, forward connection on 1 circuit of 220kV transmission line from 500kV Krong Buk station - 220kV Krong Buk station	Decision 262/QD-TTg
10	Krong Nang Wind Power Plant 1.1; 1.2	80	2025-2030	110kV single circuit transmission line from 110kV transformer station of Krong Nang 1.1 power plant connected to 110kV Krong Nang	Decision 262/QD-TTg
11	NT 1, NT 2 Wind power plants	75	2025-2030	110kV single circuit line from 110kV transformer station NT 1 connects to 110kV busbar of 110kV Krong Pak substation	Decision 262/QD-TTg
12	Ea Sin Wind Power Plant	77	2025-2030	220kV Ea Sin Line - 500kV Ea Nam Substation	Decision 1682/QD-TTg

	Dak Nong Province	**510**			
1	Tuy Duc Wind Power Plant	50	2025-2030	220kV line connected to 220 busbar 220kV Dak Nong substation	Decision 1682/QD-TTg
2	Tuy Duc 10 Wind Power Plant	60	2025-2030	220kV double circuit line of Tuy Duc 10 power plant connected to renewable energy at Dak Nong 220kV substation	Decision 1682/QD-TTg
3	Nam Binh 1	50	2025-2030	Busbar connection to 220kV Dak Hoa line	Decision 262/QD-TTg
4	Dak N'Drung 1	100	2025-2030	Connect to 220kV busbar 500kV transformer station	Decision 262/QD-TTg
5	Dak N ' Drung 2	100	2025-2030	Connecting to 35kV/220kV busbar of Dak N'Drung 1 Wind Power Substation	Decision 262/QD-TTg
6	Dak N'Drung 3	100	2025-2030	Connecting to 35kV/220kV busbar of Dak N'Drung 1 Wind Power Substation	Decision 262/QD-TTg
7	Asia Dak Song 1	50	2025-2030	Transition on 110kV Dak Song-Dak Mil line	Decision 262/QD-TTg
	Binh Dinh Province	**143**			
1	Van Canh Wind Power Plant Binh Dinh	143	2025-2030	110kV double circuit line connected to 110kV Van Canh substation	Decision 1682/QD-TTg
	Phu Yen Province	**414**			
1	HBRE An Tho Wind Farm Phase 1	200	2023-2025	220kV line connected to Tuy Hoa 220kV substation	Decision 262/QD-TTg
2	Song Cau Green Wind Power Plant Phase 1	50	2023-2025	110kV line connected to 220kV Song Cau substation	Decision 262/QD-TTg
3	Song Cau 2 Wind Power Plant	82	2025-2030		Decision 1682/QD-TTg
4	LRSH Son Hoa Wind Power Plant	82	2025-2030	Construction of 220 kV station of Son Hoa power plant and 220 kV ACSR400 line 24 km long connecting to 220 kV busbar of 220 kV Tuy Hoa transformer station	Decision 1682/QD-TTg
	Khanh Hoa Province	**102**			
1	Nexif Energy Khanh Hoa 1 Wind Power Plant	102	2025-2030	220 kV double circuit line connected to 1 circuit 220 kV Nha Trang - Thap Cham 2 line	Decision 1682/QD-TTg
	Ninh Thuan Province	**337.5**			
1	Phuoc Huu Wind Power Plant	50	2023-2027		Decision 1682/QD-TTg
2	Phuoc Nam - Enfinity - Ninh Thuan Renewable Energy Power Plant	65	2023-2027	Transition connection on a 220kV Vinh Tan - Thap Cham line circuit	Decision 1682/QD-TTg
3	BIM Wind Power Plant Phase 2 Expansion	50	2023-2027	Connection to 220kV BIM Power Plant Substation (existing)	Decision 1682/QD-TTg
4	Tri Hai Wind Power Plant	39.5	2025-2030	Transition connection on 220kV Nha Trang - Thap Cham line circuit 2	Decision 1682/QD-TTg
5	Part of Capacity of Hanbaram Wind Power Plant	93	2023-2030		Decision 1682/QD-TTg
6	V2 Wind Power Plant	40	2025-2030	220kV single circuit line to 220kV busbar, 500kV Thuan Nam substation	Decision 1682/QD-TTg
	Binh Thuan Province	**497.9**			

1	Hoa Thang 1.2 Wind Power Project	100	2025-2030	Connecting to 110 kV Luong Son - Hoa Thang - Mui Ne line	Decision 262/QD-TTg, Resolving difficulties according to Decision 233/NQ-CP
2	Wind Power Plant 1 - Binh Thuan Phase 2	29.7	2025-2030	According to the approved plan	
3	Hoa Thang 2.2 Power Plant	19.8	2025-2030	According to the approved plan	
4	Hong Phong 2 Thermal Power Plant	20	2025-2030	According to the approved plan	
5	Ham Kiem 2 Thermal Power Plant	15	2025-2030	According to the approved plan	
6	Hoa Thang 2.2 Phase 2	30	2025-2030	According to the approved plan	
7	Wind Power Project 1 – Binh Thuan Phase 3	30	2025-2030	Construction of 220 kV Wind Power Station 1 - Binh Thuan and 220 kV transmission line connecting to 220 kV Vinh Tan - Phan Thiet transmission line	
8	Wind Power Project 1 – Binh Thuan Phase 4	30	2025-2030	Construction of 220 kV Wind Power Station 1 - Binh Thuan and 220 kV transmission line connecting to 220 kV Vinh Tan - Phan Thiet transmission line	
9	Wind power project in Tuy Phong district	100	2025-2030	Connection at 110 kV voltage level, using the transmission system of wind power projects	Decision 262/QD-TTg
10	Wind power project in Bac Binh district	123.4	2025-2030	Connection at 110 kV voltage level, using the transmission system of wind power projects	Decision 262/QD-TTg
	Lam Dong Province	**216.9**			
1	Cau Dat Wind Power Plant	68.9	2023-2030		Decision 262/QD-TTg
2	Duc Trong Wind Power Plant	50	2025-2030		Decision 262/QD-TTg
3	Xuan Truong 1 Wind Power Plant	50	2025-2030	Connecting Xuan Truong 1 Thermal Power Plant to Xuan Truong 2 Thermal Power Plant	Decision 1682/QD-TTg, the province proposed to adjust the project location
4	Xuan Truong 2 Wind Power Plant	48	2025-2030	110 kV line is connected to the 110 kV Da Nhim - Don Duong line. Construction of 110 kV Xuan Truong 2 substation, capacity 63 MVA	Decision 1682/QD-TTg, the province proposed to adjust the project location
	Ba Ria - Vung Tau Province	**103**			
1	Cong Ly Wind Power Plant Ba Ria - Vung Tau Phase 1	103	2025-2030	110 kV line connected to 110 kV Ho Tram substation	Decision 262/QD-TTg
	Ben Tre Province	**605.8**			
1	Wind Power Plant No. 5 Ben Tre Phase 2 (Thanh Hai Wind Power Plant 2,3,4)	85.8	2023-2030		Decision 262/QD-TTg
2	Nexif Ben Tre Wind Power Plant Phase 2, 3	50	2025-2030		Decision 1682/QD-TTg
3	Thanh Phu Wind Power Plant	120	2025-2030	110kV Thanh Phu Power Plant Line - 110kV Binh Thanh	Decision 1682/QD-TTg

				Switching Station - 110kV Binh Thanh	
4	Bao Thanh Wind Power Plant	50	2025-2030		Decision 262/QD-TTg
5	Wind Power Plant No. 19 Ben Tre	50	2025-2030	Construction of Binh Dai 220kV substation with scale of 2x250MVA + 2x63MVA (Phase 1: installation of 01 63MVA transformer to serve connection to wind power plant No. 19 and 01 63MVA transformer to serve connection to wind power plant No. 20). Expansion of 220kV feeder at Ben Tre 220kV substation. Construction of 50km long Binh Dai - Ben Tre 220kV double-circuit transmission line	Decision 262/QD-TTg
6	Wind Power Plant No. 20 Ben Tre	50	2025-2030	Connect to 63MVA transformer at 220kV Binh Dai substation (sharing the cost of building 220kV Binh Dai substation and the cost of expanding 220kV bay at 220kV Ben Tre substation). Sharing the cost of building 220kV double-circuit transmission line Binh Dai - Ben Tre.	Decision 262/QD-TTg
7	Hai Phong Wind Power Plant	200	2025-2030		Decision 1682/QD-TTg
	Bac Lieu Province	**817**			
1	Japan - Bac Lieu Wind Power Plant	50	2025-2030		Decision 262/QD-TTg
2	Bac Lieu Wind Power Plant Phase III	141	2025-2030		Decision 262/QD-TTg
3	Hoa Binh 3 Wind Power Plant	50	2025-2030	110kV line connecting from Hoa Binh 3 Power Plant Substation to Hoa Binh 220kV substation or connecting to Hoa Binh 2 Power Plant 110kV substation	Decision 262/QD-TTg
4	Hoa Binh 2-1 Wind Power Plant	50	2025-2030	110kV line connecting from Hoa Binh 2-1 power plant substation to Hoa Binh 220kV substation or connecting to Hoa Binh 2 power plant 110kV substation	Decision 262/QD-TTg
5	Hoa Binh 4 Wind Power Plant	50	2025-2030	110kV line connecting from Hoa Binh 4 Power Plant Substation to Hoa Binh 220kV substation or connecting to Hoa Binh 1 Power Plant 110kV substation	Decision 262/QD-TTg
6	Hoa Binh 6 Wind Power Plant	40	2025-2030	220kV Line Hoa Binh 6 Power Plant - Kosy Bac Lieu Power Plant (phase 1) or connected to Hoa Binh 220kV Substation	Decision 262/QD-TTg
7	Hoa Binh 8 Wind Power Plant	50	2025-2030	110kV line connects from Hoa Binh 8 Power Plant Substation to Hoa Binh 220kV station or connects on Hoa Binh - Bac Lieu 110kV line.	Decision 262/QD-TTg
8	Hoa Binh 5.1 Wind Power Plant	80	2025-2030	220kV line connecting from Hoa Binh 5.1 Power Plant Substation to Hoa Binh 220kV Power Plant Substation or connecting to Hoa Binh 5 Power Plant 220kV Power Plant Substation (phase 1)	Decision 262/QD-TTg
9	Dong Hai 1 Wind Power Plant - Phase 3	50	2025-2030	Connect to TC110kV Hoa Binh 2 switching station of Dong Hai 1 Power Plant (sharing the 110kV connection line from Hoa Binh 2 switching station to Dong Hai - Hoa Binh 110kV line) or 110kV	Decision 262/QD-TTg

				line connecting from Dong Hai 1 Power Plant substation - phase 3 to Gia Rai 220kV station	
10	Dong Hai 6 Wind Power Plant	30	2025-2030	Connection from Dong Hai 6 Power Plant to Hoa Binh 220kV Substation	Decision 262/QD-TTg
11	Dong Hai 5 Wind Power Plant	36	2025-2030	Connecting to Hoa Binh 220kV substation using the same connection line with Dong Hai 6 wind power plant	Decision 262/QD-TTg
12	An Phuc Dong Hai Wind Power Plant	40	2025-2030	Connecting to Hoa Binh 220kV substation using the same connection line with Dong Hai 6 wind power plant	Decision 262/QD-TTg
13	Dong Hai 13 Wind Power Plant	100	2025-2030	220kV transmission line connecting from Dong Hai 13 power plant to Gia Rai 220kV substation	Decision 262/QD-TTg
14	Dong Hai 3 Wind Power Plant - Phase 1	50	2025-2030	110kV line connected from Dong Hai 3 Power Plant Substation - Phase 1 to 110kV Dong Hai 110kV Substation	Decision 262/QD-TTg
	Tien Giang Province	**200**			
1	Tan Thanh Wind Power Plant	100	2025-2030	110kV Tan Thanh Wind Power Station - Tan Phu Dong 2 Wind Power Branch - Go Cong Dong; 2x63 MVA step-up transformer station	Decision 262/QD-TTg
2	Tan Phu Dong 1 Wind Power Plant	100	2023-2030		Decision 262/QD-TTg
	Tra Vinh Province	**632.5**			
1	Hiep Thanh Wind Power Plant (the remaining parts)	64.5	2023-2030		Decision 262/QD-TTg. Total capacity 77.3 MW, 12.8 MW in operation
2	Dong Thanh 1 Wind Power Plant	80	2025-2030	220 kV transmission line connecting Dong Thanh 1 transmission line to Duyen Hai 500kV station	Decision 262/QD-TTg
3	Dong Thanh 2 Wind Power Plant	120	2025-2030	Grouped with Dong Thanh 1	Decision 262/QD-TTg
4	Thang Long Wind Power Plant	96	2025-2030	220kV single circuit line connected to 220kV Duyen Hai substation	Decision 262/QD-TTg
5	Dong Hai 3 Wind Power Plant (location V3-3)	48	2025-2030	220kV single circuit line connecting 220kV substation V3-3 to 220kV substation Dong Thanh 1	Decision 262/QD-TTg
6	Wind power plant V1-5 and V1-6 phase 2	80	2025-2030	110kV double circuit line connecting 110kV substation VI-5 and VI-6 phase 2 transitioned on 110kV line connecting Hiep Thanh line - DGV1-3	Decision 262/QD-TTg
7	Duyen Hai 2 Wind Power Plant	96	2025-2030	220kV line connected to 220kV busbar of 220kV Duyen Hai substation	Decision 262/QD-TTg
8	Wind Power Plant No. 3 (Location V3-8)	48	2025-2030	220kV single circuit line connects 220kV transformer station V3-8 to 220kV busbar of 220kV transformer station V3-7	Decision 262/QD-TTg
	Soc Trang Province	**1143.4**			
1	Lac Hoa 2 Wind Power Plant	123.6			Decision 262/QD-TTg
2	Wind Power Plant No. 7 - Phase 2	90	2025-2030		Decision 1682/QD-TTg

3	Wind Power Plant No. 11	100.8	2025-2030		Decision 262/QD-TTg
4	Tran De Wind Power Plant	50	2025-2030		Decision 262/QD-TTg
5	Song Hau Wind Power Plant	50	2025-2030		Decision 262/QD-TTg
6	BCG Soc Trang 1 Wind Power Plant	50	2025-2030		Decision 262/QD-TTg
7	Phu Cuong 1A and 1B Wind Power Plant Cluster	200	2025-2030		Decision 1682/QD-TTg
8	Soc Trang 4 Wind Power Plant	350	2025-2030		Decision 1682/QD-TTg
9	Wind power plant near the coast of Vinh Hai commune, Vinh Chau town	129	2025-2030	220kV double circuit line connected from 220kV substation of the project to 220kV busbar of 220kV Vinh Chau substation	Decision 1682/QD-TTg
	An Giang Province	**50**	2025-2030		
1	JR An Giang Wind Power Plant	50	2025-2030		Decision 262/QD-TTg
	Ca Mau Province	**860**			
1	Vien An Wind Power Plant	50	2023-2030	110kV single circuit line, 110kV substation, Vien An power plant - 110kV Rach Goc substation	Decision 262/QD-TTg
2	Ca Mau 1A Wind Power Plant	88	2023-2030		Decision 262/QD-TTg
3	Ca Mau 1B Wind Power Plant	88	2023-2030		Decision 262/QD-TTg
4	Wind Power Plant Khai Long Tourist Area - Ca Mau Phase 1	100	2025-2030	110kV double circuit transmission line 110kV transformer station Khai Long tourist area - Ca Mau phase 1 - 110kV transformer station Khai Long phase 2	Decision 262/QD-TTg
5	An Dong 1 Wind Power Plant	50	2025-2030	110kV double circuit line, 110kV An Dong 1 power plant substation, transition connection on Vien An power plant line - 110kV Rach Goc substation	Decision 262/QD-TTg
6	Khanh Binh Tay Wind Power Plant	50	2025-2030	110kV double circuit line 110kV transformer station Khanh Binh Tay power plant - 110kV transformer station Tran Van Thoi	Decision 262/QD-TTg
7	Khai Long Wind Power Plant Phase 2	100	2025-2030	110kV double circuit line, 110kV transformer station, Khai Long power plant phase 2 - 220kV transformer station, Nam Can	Decision 262/QD-TTg
8	Ca Mau 1C Wind Power Plant	88	2025-2030		Decision 262/QD-TTg
9	Ca Mau 1D Wind Power Plant	86	2025-2030		Decision 262/QD-TTg
10	Khai Long Wind Power Plant Phase 3	100	2025-2030	110kV transformer station of Khai Long power plant phase 2, additional transformers T3 and T4 installed; sharing the 110kV line of Khai Long power plant phase 2	Decision 262/QD-TTg
11	Vien An Dong Wind Power Plant	60	2025-2030	110kV double circuit line 110kV transformer station Vien An Dong power plant - 220kV transformer station Vien An power plant	Decision 1682/QD-TTg
	Hau Giang Province	**100**			
1	Long My 1 Wind Power Plant	100	2023-2030		Decision 262/QD-TTg
	Kien Giang Province	**137**			
1	Hon Dat 1 Wind Power Plant	77	2025-2030	220 kV Line of Hon Dat 1 Power Plant - Rach Gia Branch - Kien	Decision 262/QD-TTg

				Binh	
2	Kien Luong 1 Wind Power Plant	60	2025-2030		Decision 262/QD-TTg

Table 13: List of onshore and nearshore wind power projects allocated to localities in each phase

No.	Project	Expected capacity (MW)	Connection plan
	List of additional allocated projects to be put into operation in the 2025-2030 period		
	Dien Bien Province	**779**	
1	BCG Dien Bien 2 Wind Power Plant	175	220kV single circuit transmission line connecting from BCG Dien Bien 2 Power Plant Substation to 220kV Dien Bien Substation
2	Envision Nam Po 2 Wind Power Plant	150	Transition connection on 220kV Nam Po - Lai Chau line to 500kV Lai Chau substation
3	Muong Ang Wind Power Plant	108	110kV single circuit line connecting from 110kV Muong Ang substation to TC110kV of 220kV Dien Bien substation
4	Dien Bien Dong Wind Power Plant (Phase 1)	126	220kV double circuit transmission line, forward connection on 220kV transmission line from 220kV Dien Bien substation to 500kV substation
5	Tia Dinh Wind Power Plant	120	220kV single circuit transmission line connecting from 220kV substation of Tia Dinh power plant to 220kV TC substation of Dien Bien Dong power plant (Phase 1)
6	Muong Cha Wind Power Plant	50	110kV line is connected to the 110kV Tuan Giao line - 500kV Lai Chau substation
7	Dien Bien Dong Wind Power Plant	50	110kV line is connected to the 110kV line of Song Ma 3 substation - 110kV Dien Bien Dong substation
	Bac Kan Province	**266**	
1	Huong Ne Wind Power Plant	100	Construction of 110kV double circuit transmission line connecting 110kV Bac Kan - Cao Bang transmission line. Construction of 35/220kV Huong Ne power plant substation with capacity of 1x125MVA
2	Thuong Quan Wind Power Plant	100	Construction of 110kV double circuit transmission line connecting 110kV Bac Kan - Cao Bang transmission line. Construction of 35/220kV substation of Thuong Quan power plant with capacity of 1x125MVA
3	Yen Ha Wind Power Plant	66	Construction of 220kV single circuit transmission line from 220kV station of Yen Ha power plant to 220kV busbar at 220kV transformer station of Thien Long - Cho Moi power plant; Construction of 35/220kV transformer station of Yen Ha power plant with capacity of 1x75MVA
	Yen Bai Province	**160**	
1	Tram Tau Wind Power	60	110 kV single-circuit line, connecting from 110kV transformer station of Tram Tau power plant to 110kV compartment of 220kV Nghia Lo transformer station.
2	Tram Tau 1 Wind Power	100	220 kV single-circuit line connecting from 220kV NMĐG Tram Tau 1 substation to 220kV Nghia Lo substation.
	Quang Ninh Province	**300**	
1	Quang Ninh Wind Power Plant 1 - Phase 2	100	220kV double circuit line to 220kV Quang Ninh 1 station
2	Wind power plants in Binh Lieu and Tien Yen districts	100	220kV double circuit transmission line to 220kV Hai Ha station. Or Construction of 220kV double circuit transmission line to 220kV Cong Hoa station
3	Wind power plant in Mong Cai city	100	220kV double circuit line to 220kV Mong Cai substation
	Son La Province	**503**	

1	Mai Son Wind Power	128	Transition connection on 220kV line from 220kV Son La substation - 500kV Son La substation
2	Tay Phu Yen Wind Power	100	Transition connection on 220kV Son La - Viet Tri line
3	Muong Sam Wind Power	150	220kV line connected to 220kV Song Ma substation
4	Bac Yen 1 Wind Power	125	Construction of 220kV double circuit line, transition connection on 220kV Son La - Viet Tri line
	Thanh Hoa Province	**245**	
1	Thai Hai Hung Wind Power	30	220kV double circuit line connecting Thai Hai Hung Wind Power Project to Sam Son 220kV Substation
2	Hoang Hoa Wind Power Plant	115	220kV transmission line from 220kV project substation to 220kV Hau Loc substation
3	Nghi Son 1 Wind Power Plant	50	Connect to existing 220kV/110kV grid
4	Nghi Son 2 Wind Power Plant	50	Connect to existing 220kV/110kV grid
	Nghe An Province	**200**	
1	Nam Dan Wind Power Plant Phase 2	130	Shared infrastructure of 220kV Do Luong - Hung Dong connection line (built in phase 1 of the project)
2	Quynh Lap 2 Wind Power	70	110kV single circuit transmission line of Quynh Lap 2 power plant connects to 110kV Hoang Mai transformer station
	Ha Tinh Province	**1604.5**	
1	Ky Anh DT1 Wind Power Plant	49.5	220kV single circuit line connected to DT2 power plant
2	Eco Wind Ky Anh Wind Power Plant	498	500kV double circuit transmission line transit connection to 500kV Ha Tinh - Vung Ang transmission line
3	Ky Ninh - Ha Tinh Wind Power Plant	198	220kV double circuit transmission line transit connection to 220kV Ha Tinh - Vung Ang transmission line
4	Ho Da Cat Wind Power Plant	40	220kV double circuit transmission line transit connection to 220kV Ha Tinh - Vung Ang transmission line
5	Ky Khang Wind Power Plant - Phase 2	60	220kV single circuit line connecting Ky Khang Power Plant phase 1
6	Cam Xuyen Wind Power Plant - Phase 2 (nearshore section)	84	Sharing investment in construction with 220kV double circuit transmission line connecting transit to 220kV Vung Ang - Ha Tinh transmission line
7	Ky Anh Wind Power Plant	400	500kV double circuit line transit connection to 500kV circuit 3 line
8	Ky Anh 1 Wind Power Plant	65	220kV double circuit transmission line transit connection to 220kV Ha Tinh - Vung Ang transmission line
9	Ky Anh 2 Wind Power Plant	50	220kV double circuit transmission line transit connection to 220kV Ha Tinh - Vung Ang transmission line
10	Ky Anh 3 Wind Power Plant	50	110kV single circuit line connected to 110kV busbar of 220kV substation Ky Anh 1 Wind Power Plant
11	Ky Anh 4 Wind Power Plant	60	220kV double circuit line, transit connection to 220kV Ha Tinh - Vung Ang line
12	Ky Anh DT3 Wind Power Plant Expansion	50	220kV single circuit line connected to DT3 power plant
	Quang Binh Province	**997.5**	
1	Ngu Thuy Bac Tan Hoan Cau Wind Power Plant (nearshore wind power)	120	220kV double circuit transmission line Ngu Thuy Bac Tan Hoan Cau connects to 220kV Le Thuy substation or build 220kV double circuit transmission line from Ngu Thuy Bac Tan Hoan Cau power plant to 220kV Quang Binh substation 1
2	Thai Duong 1 Wind Power Plant (nearshore wind power)	120	220 kV single circuit line connected to 220kV busbar of 220kV Ba Don substation
3	Hai Ninh Wind Power Plant	118	220kV double circuit transmission line to 220kV

	Cluster (Nearshore Wind Power)		Dong Hoi substation or 220kV double circuit transmission line from Hai Ninh power plant to 220kV Quang Binh substation 2
4	HalCom Hong Duc Wind Power Plant (Nearshore Wind Power)	120	Forward connection to the 220kV Dong Hoi - Dong Ha line, circuit 2 via the 220kV switching station. Newly build a single-circuit 220kV line from the 220kV Hong Duc Halcom power plant substation to the 220kV switching station. Newly build a 220kV switching station connected in series to the 220kV Dong Hoi - Dong Ha line, circuit 2
5	Phuc Loc Tho Wind Power Plant (Nearshore Wind Power)	120	Construction of 35/500kV substation with total capacity of 900MVA at Phuc Loc Tho wind power plant; Construction of 500kV single circuit transmission line from Phuc Loc Tho wind power plant connecting to 500kV busbar of Quang Trach power plant
6	Quang Binh 1 Wind Power Plant	70	Connected to Tuyen Hoa 110kV substation, single circuit
7	Quang Binh 2 Wind Farm	70	Transition connection on 220kV Ba Don - Formosa Power Plant
8	Thanh Son Wind Power Plant (including Thanh Son 1 and Thanh Son 2)	60	Transition connection on 220kV Dong Hoi - Ba Don - Formosa line
9	Phu Dinh Wind Power Plant	69	110kV single circuit transmission line from 110kV Phu Dinh power plant booster station to 110kV Bac Dong Hoi station
10	Le Thuy 3 Wind Power Plant	110.5	220kV double-circuit transmission line from Le Thuy 3 factory to Le Thuy substation 220 busbar. Or build 110kV transmission line, substation for wind power plant connected to 110kV transmission line, substation in Le Thuy district area.
11	Le Thuy 3 Wind Power Plant, Phase 3 - increasing capacity	20	220kV double-circuit transmission line from Le Thuy 3 factory to Le Thuy substation 220 busbar. Or 110kV transmission line, substation of wind power plant connected to 110kV transmission line, substation in Le Thuy district, Quang Ninh
	Quang Tri Province	**493.4**	
1	SCI Tan Thanh (the remaining parts)	12	Common connection of SCI Tan Thanh NMDG
2	Hung Bac (the remaining parts)	40	Connection to 220kV busbar of 220kV Tai Tam substation
3	Tan Hop 1	50	Connect to 110 kV Tan Hop Power Plant Substation
4	Expanded Phong Lieu	35	Connect to 220kV Huong Tan Substation
5	AMACCAO - Quang Tri 2	48	220kV Amaccao Quang Tri 2 Line - Amaccao Quang Tri 1 Power Plant Expansion Block
6	Phuc Thanh An Quang Tri	48	Connect to 220kV Huong Tan Substation
7	My Anh Quang Tri 1	48	Connection to 220kV busbar of 220kV Lao Bao substation
8	SCI Ba Wind Power Plant (first level)	25	Connect to 220kV busbar of 220kV SCI Tan Thanh substation by single circuit line
9	Quang Tri Win 5	48	Construction of medium voltage lines connected to the 35 kV side of the 35/220 kV transformer Quang Tri Win 5-6 - 125 MVA
10	Quang Tri Win 6	48	XDM 220 kV Quang Tri TBA Win 5-6 - 125 MVA; XDM 220 kV single circuit transmission line connecting Quang Tri Win 5-6 substation to Lao Bao 220 kV substation (Huong Hoa)
11	Phuc Thanh An Vinh Phuc	30	Connect to 220 kV Huong Tan substation
12	Duc Thang 2 (the remaining	20	220 kV single circuit line connected to 220 kV

	parts)		substation of Tai Tam power plant
13	TK Power (the remaining parts)	20	220 kV single circuit line connected to 220 kV substation of Tai Tam power plant
14	Cam Lo 1	36	220 kV Cam Lo 1 - Dong Ha Power Plant
15	Licogi 16 - Quang Tri	30	220 kV Line Licogi 16 - Quang Tri - Lao Bao
	Kon Tum Province	**430.75**	
1	Chu Hreng Wind Power (phase 1)	150	220kV double circuit line connected to 220kV feeder compartment of 500kV Kon Ray substation
2	Sac Ly Wind Power – Kon Tum (phase 2)	96	Connect to 220kV transformer station of Charging Ly Power Plant - Kon Tum. Install 01 additional transformer with capacity of 1x125MVA at 220kV transformer station of Charging Ly Power Plant - Kon Tum
3	Kon Plong Wind Power	103.5	Kon Plong 35/220kV step-up transformer station, capacity 150MVA. Construct Kon Plong 220kV switching station to collect Kon Plong power plant's capacity and connect to the national power system. Construct a single-circuit 220kV transmission line from Kon Plong 35/220kV transformer station to the 220kV busbar of Kon Plong switching station. Construct a four-circuit 220kV transmission line from Kon Plong 220kV switching station to connect to two circuits of the Thuong Kon Tum - Quang Ngai 220kV hydropower line
4	Dak To Re Wind Power	81.25	Forward connection to 110kV Kon Tum - Kon Plong line by 110kV line; backup plan: connection to 500kV Kon Ray substation
	Gia Lai Province	**849**	
1	Chu Se Wind Power Plant - Envision	40	Transition connection on 01 circuit of 220kV Chu Se - Krong Buk line (circuit 2)
2	La Blu 1 Wind Power Plant (Phase 2)	42	Connecting Ia Blu 1 Power Plant (Phase 2) to 220kV Ia Blu 1 Power Plant Substation
3	Chu Puh 1.1 Wind Power Plant	45	Construction of 220 kV transformer station of Chu Puh 1.1 power plant, capacity 125 MVA. Single circuit 220kV transmission line from 220kV transformer station of Chu Puh 1.1 power plant connected to 220kV transformer station of Ia Boong - Chu Prong. Construction of medium voltage transmission lines connected to Chu Puh 1.1 power plant
4	Chu Wind Power Plant Puh 1 .2	45	Construction of medium voltage lines connected to the medium voltage side of the 220 kV transformer station of Chu Puh 1.1 power plant
5	TNE 1 Wind Power Plant	45	Construction of 220 kV lifting substation of TNE 1 power plant, capacity 63 MVA. Single circuit 220kV line from 220kV substation of TNE 1 power plant connected to 220kV substation of Chu Puh 1.1. Construction of medium voltage lines connected to TNE 1 power plant
6	TNE 2 Wind Power Plant	45	Install a new 33/220kV transformer, capacity 63MVA at the 220kV booster station of TNE 1 power plant to connect to TNE 2 power plant. Construct medium voltage lines connecting to TNE 2 power plant.
7	TNE 3 Wind Power Plant	45	Install a new 33/220kV transformer, capacity 63MVA at the 220kV booster station of TNE 1 power plant to connect to TNE 3 power plant. Medium voltage line connecting TNE 3 power plant
8	Xa Trang Wind Power Plant (Phase 2)	100	Connecting by 220kV line to 500kV Pleiku 3 substation

9	Bo Ngoong Wind Power Plant	100	Connecting by 220kV line to 500kV Pleiku 3 substation
10	Thang Hung Wind Power Plant (Phase 2)	38	Connecting by 220kV line to 500kV Pleiku 3 substation
11	Phu My Wind Power Plant (Phase 2)	38	Connected by 220kV line from Phu My Power Plant to 220kV substation of Hoang An Power Plant and shared to 500kV Pleiku 3 substation
12	An Thanh Gia Lai Wind Power Plant	40	Connection by 220kV line An Thanh Gia Lai Power Plant uses 4-circuit poles to connect transit to 02 220kV lines Pleiku - An Khe Power Plant and Pleiku 2 - An Khe
13	La Dreng 1 – Chu Puh Wind Power Plant	40	Connected by single circuit 220kV transmission line from 35/220kV lifting substation of Ia Dreng 1 - Chu Puh power plant to 220kV busbar of 220kV Chu Se station
14	La Hla Wind Power Plant	40	Connected by 220kV single circuit line to 500kV Nhon Hoa substation
15	La Blu 1 - Chu Puh Wind Power Plant	40	Connect by 220kV line to Nhon Hoa 500kV substation (in case Ia Blu 500kV substation changes its investment phase before 2030, it will be connected to this station)
16	La Blu 2 - Chu Puh Wind Power Plant	40	Connect by 220kV line to Nhon Hoa 500kV substation (in case Ia Blu 500kV substation changes its investment phase before 2030, it will be connected to this station)
17	Hoang An Wind Power Plant (Phase 2)	28	Connection by 220kV line from Hoang An Power Plant to 500kV Pleiku 3 Substation
18	Chu Se 1 Wind Power Plant (Phase 2)	38	Connection by 220kV line from Chu Se 1 power plant to Chu Se 220kV substation
	Dak Lak Province	**985**	
1	Krong Ana 1 Wind Power Plant	160	220kV single circuit transmission line from 220kV Krong Ana 1 power plant substation connects to 220kV Krong Ana substation (Cu Kuin)
2	Buon Ho 3 Wind Power Plant - Phase II;	100	220kV line connected to 220kV Krong Buk substation
3	E&M Dak Lak Wind Power Plant	95	220kV double circuit transmission line, forward connection on 220kV Krong Buk - Nha Trang transmission line
4	Thanh Phong Wind Power Phase 1	100	220kV double circuit transmission line, forward connection on 220kV Krong Buk - Pleiku 2 transmission line
5	Ea Sin 2 Wind Power Plant	250	220kV double circuit line connected to 500kV Ea Nam Power Plant Substation
6	Thuan Phong 2 Wind Power Plant, Phase 1	100	220kV double circuit transmission line, forward connection on 220kV transmission line, 500kV station Krong Buk - Krong Buk
7	HLP Krong Nang Wind Power	50	Connection at 110kV busbar of 110kV transformer station HLP Ea HLeo 1
8	Chu Kbo Wind Power Plant, Phase 1	50	220kV single circuit transmission line from Chu Kbo power plant connects to 500kV substation of Ea Nam power plant
9	Dlie Ya-Krong Nang Wind Power Plant Project, Phase 1	80	110kV single circuit transmission line from 110kV wind power plant substation to 110kV HTPP 220kV Krong Buk substation
	Binh Dinh Province	**1233**	
1	Hon Trau Wind Power Plant - Phase I	750	220kV double-circuit transmission line from 220kV Hon Trau 1 substation (HT1A area) to 220kV Phu My substation and construction of 220kV double-circuit transmission line from 220kV Hon Trau 1 substation

			(HT1B area) to 220kV Nhon Hoi substation
2	Vinh Thuan Wind Power Plant	143	110kV double circuit line from 110kV substation of Vinh Thuan power plant connected to TC110kV of 110kV substation of Don Pho
3	Van Canh 1 Wind Power Plant	160	220kV 4-circuit transmission line from 220kV Van Canh 1 substation, transit connection on 220kV Quy Nhon transmission line - An Khe substation and 220kV Phuoc An transmission line - An Khe substation
4	Van Canh 2 Wind Power Plant	180	220kV single circuit line from 220kV Van Canh 2 substation connected to 220kV TC of 220kV Van Canh 1 substation
	Phu Yen Province	**300**	
1	Song Cau 2 Wind Power Project Phase 2	38	220kV single circuit transmission line from 220kV substation of Song Cau power plant connected to 220kV substation of Song Cau 1 power plant
2	Song Cau 1 Wind Power Project Phase 1	50	Connected to Song Cau 220kV substation, single circuit 220kV line
3	Son Long Wind Power Project	50	110kV line connected to Phu Hoa 110kV substation
4	EaBar Wind Power Project	50	220 kV line connected to 220 kV Krong Buk - Song Ba Ha line
5	LRSH Son Hoa Wind Power Project Phase 2	18	Construction of 220 kV Son Hoa MĐG station and 220 kV ACSR400 transmission line connecting to 220 kV Tuy Hoa substation
6	VICO wind power project	44	Connect to Tuy Hoa 220kV substation, 220kV line
7	LRSC Song Cau Wind Power Project	50	Connected to 220kV Song Cau substation, 110kV single circuit line
	Khanh Hoa Province	**200**	
1	TDX Khanh Hoa 1 Wind Power Plant	100	220 kV line with 02 transitional connection circuits on the 220 kV Nha Trang - Thap Cham circuit
2	EEC Khanh Hoa Wind Power Plant	100	Connect to 2 circuits of 220 kV Nha Trang - Thap Cham line
	Ninh Thuan Province	**1039**	
1	Tri Hai Wind Power (Phase 2)	39.5	Transition connection on 220kV Nha Trang – Thap Cham line, circuit 2 from phase 1
2	Bac Son Wind Power	60.5	220kV line from Bac Son power plant is connected to the 220kV line Nha Trang - Thap Cham circuit 2
3	Nui Mot Lake Wind Power	50	35(22) kV 6-circuit line from the Factory to the 220kV transformer station of Nui Mot 2 reservoir; Increase the capacity of the 220kV transformer station of Nui Mot 2 reservoir to (100+125) MVA
4	BIM Wind Power Phase 3 Expansion	120	Connect to 220kV transformer station of BIM power plant (existing); Invest in expanding transformer T2 33/33/200kV , capacity 200MVA at the backup location of 220kV transformer station of BIM power plant. Invest in expanding 220kV feeders at 220kV transformer station of BIM power plant synchronized with transformer T2 and complete the electrical connection diagram at 220kV transformer station of BIM power plant. Invest in expanding 01 feeder station of 220kV feeder at Quan The switching station (278). Hanging circuit 2 of 220kV transmission line of BIM power plant - Quan The switching station
5	V2 wind power plant - Expanded	769	220kV double circuit Phuoc Dinh sea power line - 500kV Thuan Nam substation
	Binh Thuan Province	**242**	
1	Wind power plant near-shore area of Tuy Phong district, Bac Binh	100	Connected to 220 kV grid near project area

2	Wind power plant in coastal areas near Ham Thuan Nam district, Ham Tan district, La Gi town	142	Connected to 220 kV grid near project area
	Lam Dong Province	**200**	
1	Cau Dat Wind Power Project Phase 2	200	Construction of 22/220kV step-up transformer, capacity 2X125MVA: 22kV single circuit transmission line from 220kV transformer station to 220kV TC 220kV Da Nhim switching station, expansion of 220kV transmission line bay of 220kV Da Nhim substation.
	Ba Ria - Vung Tau Province	**100**	
1	Xuyen Moc nearshore wind power plant phase 3	100	110 kV line connected to TC110kV of Phuoc Thuan 220 kV substation
	Ben Tre Province	**500**	
1	Ba Tri district wind power plant	50	110kV Ba Tri District Power Plant - 220kV Binh Dai
2	Binh Dai 1 District wind power plant	50	110kV Binh Dai District Power Plant 1 - 220kV Binh Dai
3	Binh Dai 2 District wind power plant	50	110kV Binh Dai 2 Power Plant - 220kV Binh Dai
4	Binh Dai 3 District wind power plant	100	110kV Binh Dai 3 Power Plant - 220kV Binh Dai
5	Thanh Phu 1 wind power plant	125	110kV Thanh Phu 1 Power Plant - 220kV Thanh Phu
6	Thanh Phu 2 wind power plant	75	110kV Thanh Phu 2 Power Plant - 220kV Thanh Phu
7	Thanh Phu 3 wind power plant	50	110kV Thanh Phu 3 Power Plant - 220kV Thanh Phu
	Bac Lieu Province	**270**	
1	Dong Hai 1 Wind Power Plant Phase 4	50	220 kV transmission line connecting from Dong Hai 1 Power Plant - Phase 4 to 220 kV substation Dong Hai 13 Power Plant
2	Dong Hai 13 Wind Power Plant Phase 2	70	Connected to Gia Rai 220 kV station, sharing the connection line with Dong Hai 13 wind power plant
3	Dong Hai 3 Wind Power Plant - Phase 2	50	Installation of transformer of Dong Hai 3 wind power plant phase 2 in 110 kV station
4	Hoa Binh 6 Wind Power Plant - Phase 2	100	220 kV line connecting from Hoa Binh 6 Power Plant - Phase 2 to Hoa Binh 220 kV Substation
	Tien Giang Province	**100**	
1	Tan Thanh 2 Wind Power	100	220 kV line connected to 220 kV Go Cong substation
	Tra Vinh Province	**1402**	
1	Wind Power Plant Project No. 3 (position V3-8) - Expansion	160	Install and expand 2 more 2x90MVA transformers at 220kV transformer station of Power Plant No. 3 (Location V3-8). Share the transmission infrastructure of Power Plant No. 3
2	Dong Hai 3 Wind Power Plant Expansion Project (Location V3-3)	120	220kV line connecting, sharing station infrastructure and 220kV line from Dong Hai 3 Wind Power Plant (Location V3-3) to Duyen Hai 500kV Substation
3	Wind Power Plant Project at Location V3-6	275	Construction of 220kV transformer station V3-6 and single-circuit 220kV transmission line connecting 220kV transformer station V3-6 to 220kV busbar of 220kV transformer station V3-7
4	V3-5 Wind Power Plant Project	120	New construction of 220kV transformer station V3-5 and single-circuit 220kV transmission line connecting 220kV transformer station V3-5 to 220kV busbar of 220kV transformer station V3-6
5	V3-7 Wind Power Plant Project	329	New construction of 220kV transformer station V3-7 and 220kV line 04 connecting circuits of 220kV transformer station V3-7 transferred on 220kV line from Duyen Hai - Tra Vinh power plant
6	Dong Hai 4 Wind Power Plant	148	Transition connection on 220kV Dong Hai 3 - Dong

			Thanh 1 line
7	V3-2 Wind Power Plant	250	Construction of 220kV transformer station V3-2 and 220kV transmission line connecting to V3-2 wind power project; Connection to 220kV busbar of 220kV Tra Vinh 3 station and a circuit to 220kV busbar of 220kV Dong Hai 3 station
	Soc Trang Province	**988**	
1	Vinh Hai 1 Wind Power	400	220kV transmission line from 220kV Vinh Hai nearshore wind power plant substation to 220kV Vinh Chau substation (using existing connection infrastructure of the Wind Power Plant Project near the coast of Vinh Hai commune, Vinh Chau town - 129MW).
2	Vinh Hai 2 Wind Power	270	220kV transmission line from 220kV substation of the project to 220kV Tran De substation
3	Lac Hoa 3 Wind Power	50	Taking advantage of existing infrastructure, expanding the busbar of 110kV substation - Lac Hoa GDI power plant, installing additional transformers
4	My Thanh Wind Power	68	Constructing a new 110kV substation of the project. 110kV double-circuit line connecting from the project's 110kV substation to the My Thanh Industrial Park 110kV substation
5	Vinh Tan Wind Power	200	Taking advantage of existing infrastructure, expanding the 220kV substation busbar - Phu Cuong Soc Trang 1A and 1B power plant cluster, installing additional transformers
	An Giang Province	**50**	
1	An Giang 2 wind power plant	50	110kV single circuit line connected to 110kV transformer station of An Giang 1 power plant
	Ca Mau Province	387	
1	Ngoc Hien - Vien An Wind Power Plant	100	110kV double circuit line, Ngoc Hien - Vien An power plant substation - 220kV substation, Vien An power plant
2	Ngoc Hien - Tam Giang Tay Wind Power Plant	100	110kV double circuit line of Ngoc Hien - Tam Giang Tay power plant substation - 220kV Ca Mau 3 substation
3	Ngoc Hien - Rach Goc Wind Power Plant	60	110kV single circuit 110KV transformer station Ngoc Hien - Rach Goc - 110kV Rach Goc transformer station
4	Ngoc Hien Wind - Dat Mui wind power plant	67	1 10 kV double circuit transformer station 1 10 kV NMĐG Ngoc Hien - Dat Mui - 220kV Substation Vien An Power Plant
5	Ngoc Hien - Tan An 1 Wind Power Plant	60	110kV double circuit line, Ngoc Hien – Tan An 1 power plant substation - 220kV Ca Mau 3 substation
	Hau Giang Province	**100**	
1	Sao Mai 1 wind power plant	100	110kV single circuit transmission line transit connection to 110kV Long My - Hong Dan transmission line
	Kien Giang Province	**171**	
1	Wind power plant in Hon Dat district (II)	43	Transition connection on 220kV Rach Gia 2 - Kien Binh line.
2	Kien Luong 2 Wind Power Plant	65.6	110kV transmission line connected to 110kV substation of Kien Luong 1 wind power plant
3	An Bien, An Minh Wind Power Plant	62.4	Transition connection to 110kV An Bien - Lai Son line
	Hue City	**100**	
1	Phong Dien Wind Power Plant	100	220kV double circuit transmission line from 220kV Phong Dien Power Plant substation to 220kV Phong Dien substation

	Khanh Hoa Province	**200**	
1	TDX Khanh Hoa 1 Wind Power Plant	100	220 kV line 02 connecting circuit from 220 kV station of Khanh Hoa 1 power plant, transitioning on 220 kV Nha Trang - Thap Cham circuit
2	EEC Khanh Hoa Wind Power Plant	100	Connect to 2 circuits of 220 kV Nha Trang - Thap Cham line
	Quang Nam Province	**100**	
1	TDX Quang Nam 1 Wind Power Project	100	110kV line 10.5 km long connected from 22/110kV lifting substation to 220kV Tam Ky substation
	Long An Province	**73**	
1	Chau Thanh Wind Power Plant - Phase 1	73	110kV double circuit Chau Thanh line - 110kV Tam Vu 2 station
	List of additional allocated projects to be put into operation in the 2031-2035 period		
	Kon Tum	**100**	
1	Chu Hreng Wind Power (Phase 2)	100	220kV double circuit line connected to 220kV feeder compartment of 500kV Kon Ray substation
	Gia Lai	**2039.5**	
1	Ia Phang 1 wind power plant	100	Connected by 220kV double circuit transmission line from 22/220kV step-up transformer station of Ia Phang 1 power plant, transferred on 01 circuit of 220kV transmission line of Chu Se - Krong Pa
2	TNE 3A wind power plant	49.5	Installing a new 33/220kV transformer with a capacity of 63MVA at the 220kV booster station of TNE 1 Power Plant to connect to TNE3A Power Plant. Adding one more circuit on the 220kV Ia Boong Chu Prong line - 500kV Nhon Hoa substation
3	TNE5 wind power plant	49.5	Installing a new 33/220kV transformer with a capacity of 63MVA at the 220kV booster station of TNE 1 power plant to connect to TNE5 power plant.
4	Ia Rong 1 wind power plant	49.5	Construction of 33/220kV step-up transformer station of IA RONG 1 power plant, capacity 63MVA. Construction of a 220kV single-circuit transmission line connecting from the 33/220kV Ia Rong 1 Power Plant Substation to the 33/220kV TNE 1 Power Plant Step-up Substation
5	Ia Rong 2 wind power plant	49.5	Installing a new 33/220kV transformer with a capacity of 63MVA at the 220kV booster station of Ia Rong 1 Power Plant to connect to Ia Rong 2 Power Plant.
6	Ia Rong 3 wind power plant	49.5	Installing a new 33/220kV transformer with a capacity of 63MVA at the 220kV booster station of Ia Rong 1 Power Plant to connect to Ia Rong 3 Power Plant.
7	Ia Rong 3A wind power plant	49.5	Installing a new 33/220kV transformer with a capacity of 63MVA at the 220kV booster station of Ia Rong 1 Power Plant to connect to Ia Rong 3A Power Plant.
8	Ia Ko 3 wind power plant	49.5	Installing a new 01 33/220kV transformer, capacity 63MVA at the 220kV lifting substation of Ia Ko 1 power plant to connect to Ia Ko 3 power plant
9	Ia Ko 3A wind power plant	49.5	Installing a new 01 33/220kV transformer, capacity 63MVA at the 220kV lifting substation of Ia Ko 1 power plant to connect to Ia Ko 3A power plant
10	Xa Trang wind power plant (Phase 3)	100	Connection by 220kV line, Xa Trang power plant – 500kV Pleiku 3 substation
11	Bo Ngoong wind power plant (GD2)	115	Connected by 220kV double circuit transmission line from 220kV step-up transformer station of Bo Ngoong power plant to 220kV TC of 500kV Pleiku 2 transformer station
12	NMĐG Ia Tor	50	110kV single circuit transmission line from 22/110kV Ia Tor power plant transformer station to 110kV busbar of 220kV Thang Hung power plant

			transformer station
13	Ia Blu 1 - Chu Puh wind power plant	50	Connect by 220kV line to Nhon Hoa 500kV substation (in case Ia Blu 500kV substation changes its investment phase before 2030, it will be connected to this station)
14	Ia Blu 2 - Chu Puh wind power plant	50	Connect by 220kV line to Nhon Hoa 500kV substation (in case Ia Blu 500kV substation changes its investment phase before 2030, it will be connected to this station)
15	Ia Boong – Chu Prong wind power plant (Phase 2)	150	Connected by 220kV double circuit transmission line from 22/220kV Ia Boong - Chu Prong Power Plant (Phase 2) to 220kV busbar of 500kV Pleiku 2 station
16	Phuoc Son wind power plant	50	Connection by 220kV line, single circuit from 35/220kV transformer station of Phuoc Son power plant to 220kV busbar of 220kV transformer station of Phu My power plant
17	Yang Trung 2 wind power plant	49.5	Connecting Yang Trung 2 Power Plant with a single-circuit 220kV line to the 220kV busbar of the 220kV step-up transformer station of Cho Long Power Plant
18	H'Bong 1 - Chu Se wind power plant	50	Connected by 220kV double circuit line from 35/220kV transformer station H'Bong 1 - Chu Se, transferred on 220kV Chu Se - 220kV Krong Pa line
19	Mang Yang 3.1, Mang Yang 3.2, Mang Yang 3.3 NMDG wind project cluster	300	500 kV double circuit line from 500kV Mang Yang substation - 500kV Pleiku substation 220 kV line from 220kV Mang Yang 3.3 substation to 220kV busbar 220kV Mang Yang 2 power plant
20	Gia Lai Wind Power Plant	49	Connected by 220kV line to 500kV Pleiku 3 station
21	Nam Ham Rong Wind Power Plant	40	Connected by 220kV double circuit line from 22/220kV Nam Ham Rong power plant lift station, transferred to 220kV line of Ia Boong power plant Chu Prong - 500kV Pleiku 2
22	An Thanh Gia Lai WindPower Plant	40	Connection by 220kV line An Thanh Gia Lai Power Plant uses 4-circuit poles to connect transit to 02 existing 220kV lines Pleiku - An Khe Power Plant and Pleiku 2 - An Khe
23	Ia Le 3 wind power plant	50	Connection by 220kV double circuit transmission line, transit connection to existing circuit 220kV Pleiku 2 - Krong Buk transmission line
24	HE Gia Lai wind power plant	100	Connected by single circuit 220kV line from 35/110/220kV transformer station of Gia Lai HE Power Plant (built at location 04) to 220kV busbar of 220kV Chu Se transformer station
25	Tay Ho - Chu Prong Wind Power Plant	50	110kV single circuit transmission line from Tay Ho - Chu Prong power plant to 110kV transformer station of Mountainous Development Power Plant
26	Dak Jo Ta wind power plant I	50	The 220kV double-circuit transmission line from the 220kV Dak Jo Ta - Ayun power plant cluster transformer is transferred onto the 220kV Pleiku 2 - An Khe power plant line.
27	Ayun Wind Power Plant	50	The 220kV double-circuit transmission line from the 220kV Dak Jo Ta - Ayun power plant cluster transformer is transferred onto the 220kV Pleiku 2 - An Khe power plant line.
28	Upgrading the capacity of HBRE Chu Prong Wind Farm (from 50 to 100MW)	50	Install 01 more 22(35)/110kV-63MVA transformer at the backup transformer compartment of the existing 110kV substation HBRE Gia Lai Wind Power Plant
29	K'Bang A and K'Bang B wind power plant clusters	100	Construction of a 220kV single-circuit transmission line from the 35/220kV transformer station at K'Bang A and K'Bang B power plant clusters to the 220kV An

			Khe transformer station
	Dak Lak	**945**	
1	Krong Ana 2 Wind Power Plant	160	220kV single circuit transmission line from 220kV step-up transformer station of Krong Ana 1 Wind Power Plant connected to 220kV TC 220kV Krong Ana transformer station (Cu Kuin)
2	Buon Ho 3 Wind Power Plant - Phase III;	150	Use of common transmission infrastructure of phase 2
3	Thanh Phong Wind Power, Phase 2	100	Use of common transmission infrastructure of phase 1
4	E&M Dak Lak Wind Power Plant, Phase 2	105	Use of common transmission infrastructure of phase 1
5	Thuan Phong 2 Wind Power Plant, Phase 2	100	Use of common transmission infrastructure of phase 1
6	GETEC Dak Lak Wind Power Plant Cluster	100	Connecting to the 220kV busbar of the 220kV AMI AC Dak Lak wind power substation by a single-circuit 220kV line
7	AMI AC Dak Lak 1 Wind Power Plant	100	220kV four-circuit transmission line from 220kV substation of AMI AC Dak Lak Power Plant Cluster is connected via 220kV Krong Buk transmission line - Serepok 4 Power Plant and from 220kV Krong Buk station to 220kV Buon Kuop Power Plant
8	Ea Hleo RWP Wind Power	80	220kV double circuit transmission line connected to Thanh Phong - Pleiku 2 power plant line
9	HLP Ea Hleo 1 Wind Power	50	220kV double circuit transmission line, forward connection on 220kV Krong Buk - Pleiku 2 transmission line
	Tra Vinh	**400**	
1	Duyen Hai 3 Wind Power Plant Expansion Project	170	New construction of 220kV transformer station for Duyen Hai coastal wind power plant
2	Thang Long Wind Power Plant Project (Phase 2)	100	Installing a step-up transformer at Thang Long Tra Vinh Power Plant, connecting it to the Thang Long Tra Vinh Power Plant line
3	Duyen Hai 2 Wind Power Plant Expansion Project	130	Transition connection to 220kV substation Duyen Hai 2 Wind Power Plant connecting to 220kV Duyen Hai substation
	Ca Mau	**942**	
1	Ngoc Hien - Vien An Dong Wind Power Plant	100	110kV double-circuit transmission line, 110kV substation, Ngoc Hien - Vien An Dong power plant, forward connection on 1 circuit, 110kV transmission line, Vien An Dong power plant - An Dong 1 power plant
2	Ngoc Hien - Tan An 2 Wind Power Plant	150	110kV double circuit line Ngoc Hien Tan An 2 Power Plant - 220kV Ca Mau 3 Substation
3	Ngoc Hien - Tan An 3 Wind Power Plant	142	110kV double circuit line Ngoc Hien - Tan An 3 power plant - 220kV Ca Mau 3 substation
4	Ngoc Hien - Tam Giang Tay 1 Wind Power Plant	200	110kV double circuit line Ngoc Hien - Tam Giang Tay 1 power plant - 220kV Ca Mau 3 substation
5	Nam Can - Tam Giang Dong Wind Power Plant	100	110kV double circuit transmission line of Nam Can - Tam Giang Dong power plant - 220kV Ca Mau 3 substation
6	Ngoc Hien - Dat Mui 1 Wind Power Plant	50	110kV double circuit line, Ngoc Hien - Dat Mui 1 power plant substation - 110kV Ngoc Hien - Dat Mui power plant substation
7	Ngoc Hien - Khai Long 4 Wind Power Plant	100	110kV double circuit line Ngoc Hien - Khai Long 4 power plant, forward connection on 1 circuit Ngoc Hien - Dat Mui power plant line - 220kV substation Vien An power plant
8	Tran Van Thoi - Phong Dien	50	110kV double circuit transmission line 110kV

	Wind Power Plant		transformer station Tran Van Thoi - Phong Dien - 110kV Song Doc transformer station
9	U Minh - Khanh Tien Wind Power Plant	50	110kV double circuit transmission line U Minh - Khanh Tien power plant - 110kV U Minh substation
	Bac Lieu	**351**	
1	Hoa Binh 9 Wind Power Plant	200	220 kV line connecting from Hoa Binh 9 Power Plant to Hoa Binh 220 kV Substation
2	Hoa Binh - Dong Hai 1 Wind Power Plant (Phase 1)	151	220 kV line connecting from Hoa Binh - Dong Hai 1 Power Plant to Hoa Binh 9 220 kV Substation
	Tien Giang	**226**	
I	Tan Thanh 2 Wind Power	226	Construction of 220 kV transmission line connecting to 220 kV Go Cong substation

Table 14: List of concentrated solar power projects

No.	Project	Expected capacity (MW)	Operational phase		Connection plan	Note
	An Giang Province	**80**				
1	An Cu Solar Power Plant	40	2025-2030		No connection plan yet	Resolving difficulties according to Resolution 233/NQ-CP
2	An Giang Solar Power Plant	80	2025-2030		No connection plan yet	
	Ba Ria - Vung Tau Province	**50**				
1	Phu My Solar Power Project	50	2025-2030		110kV line connected to existing 110kV substation	
	Bac Giang Province	**100**				
1	Yen The Solar Power Plant	50	2025-2030		110kV single circuit line connecting 110kV expanded busbar of 110kV Cau Go substation	
2	Solar power for Da Ong lake and Cau Re lake	50	2025-2030		110kV single circuit line connecting 110kV busbar to 110kV Cau Go substation	
	Bac Lieu Province	**50**				
1	An Phuc Dong Hai solar power plant combined with battery storage system	50	2025-2030		110kV double-circuit line connecting from An Phuc Dong Hai solar power plant substation combined with battery storage system to 110kV compartment of Gia Rai 220kV station.	
	Ben Tre Province	**50**				
1	Ben Tre Solar Power Plant	50	2025-2030		110 kV Ben Tre Power Plant - 220 kV Binh Dai	
	Binh Dinh Province	**500**				
1	Hoai Duc Solar Power Plant	50	2025-2030		Construction of 110kV double-circuit transmission line from Hoai Duc Solar Power Plant's step-up station to the tie-in connection on the 110kV Hoai Nhon - Phu My transmission line	
2	Hoai Thanh Solar Power Plant	60	2025-2030		Construction of 110kV double-circuit transmission line from Hoai Thanh Solar Power Plant's step-up station to the tie-in connection on Hoai Nhon - Tam Quan 110kV transmission line	
3	Nui Mot Lake Solar Power Plant	100	2025-2030		Construction of 110kV double-circuit transmission line from the Nui Mot Lake Solar Power Plant's step-up station to the 110kV busbar of the existing Nhon Tan 110kV transformer station	
4	Phu My 1 Industrial Park Solar Power Plant	100	2025-2030		Connecting 35kV or 22kV to 220kV Phu My 2 Substation (located in Phu My Industrial Park)	
5	Phu My 2 Industrial Park Solar Power	100	2025-2030		Connecting 35kV or 22kV to 220kV Phu My 2 Substation (located	

	Plant				in Phu My Industrial Park)	
6	Binh An 1 Solar Power Plant	90	2025-2030		Connecting 35kV or 22kV to 220kV Phu My 2 Substation (located in Phu My Industrial Park)	
	Binh Duong Province		**50**	**1200**		
1	Bau Bang Industrial Park Expansion	50	2025-2030		22 kV double circuit line	
2	Cay Truong Industrial Park	50		2031-2035	22 kV double circuit line	
3	Bau Bang 4 Industrial Park	50		2031-2035	22 kV double circuit line	
4	Bau Bang 5 Industrial Park	50		2031-2035	22 kV double circuit line	
5	Dau Tieng 1A Industrial Park	50		2031-2035	22 kV double circuit line	
6	Dau Tieng 4 Industrial Park	50		2031-2035	22 kV double circuit line	
7	Dau Tieng 5 Industrial Park	50		2031-2035	22 kV double circuit line	
8	Bac Tan Uyen 4 Industrial Park	50		2031-2035	22 kV double circuit line	
9	Bac Tan Uyen 5 Industrial Park	50		2031-2035	22 kV double circuit line	
10	Phu Giao 3 Industrial Park	50		2031-2035	22 kV double circuit line	
11	Phu Giao 1 Industrial Park	50		2031-2035	22 kV double circuit line	
12	Binh Duong Riverside ISC Industrial Park	50		2031-2035	22 kV double circuit line	
13	Tan Uyen 3 Industrial Park	50		2031-2035	22 kV double circuit line	
14	Long Tan Solar Power Plant	600		2031 -2035	- Construction of 220kV Substation of Long Tan Solar Power Plant - Construction of a 220kV single-circuit line from Long Tan Solar Power Plant to Dau Tieng 1A Industrial Park. - Constructing a 220kV single-circuit line from Long Tan Solar Power Plant to connection to Dau Tieng 4 Industrial Park. - Constructing a 220kV single-circuit line from Long Tan Power Plant to connection to An Lap, An Lap 2, and An Lap 3 industrial clusters. - Constructing a 220kV single-circuit line from Long Tan Solar Power Plant to connection to Long Tan Industrial Cluster. - Constructing a 220kV single-circuit line from Long Tan Solar Power Plant to connection to Long Hoa 1 and 2 Industrial Clusters. - Constructing a 220kV single-circuit line from Long Tan Solar Power Plant to connection to Thanh An 1, 2, 3 Industrial Cluster.	
	Binh Phuoc Province	**708.4**		**3650.2**		
1	MT1 Solar Power	24	2025-2030		Connecting to Hoa Lu 110 kV Substation (or Switching Station adjacent to Hoa Lu 110 kV Substation)	Resolving difficulties according to Resolution
2	MT2 Solar Power	24	2025-2030		Connecting to TC [Switching Station] 110 kV Substation of MT1 Solar Power Plant	

3	Loc Thanh 1-1 Solar Power	40	2025-2030		Connecting at 110 kV voltage level to Hoa Lu 110 kV substation	233/NQ-CP
4	Hai Ly Binh Phuoc Solar Power	40	2025-2030		Connecting to Loc Tan 220 kV Switching Station	
5	Floating solar power plant on Srok Phu Mieng hydropower lake (150MWp)	120	2025-2030		110 kV line connecting 110 kV compartment at 220 kV Binh Long 2 station	
6	Thac Mo Solar Power Plant Phase 2 (100MWp)	80	2025-2030		Connecting to the 22kV double-circuit line of the existing Thac Mo solar power plant and the 220kV Binh Long 2 - 500kV Dak Nong line	
7	Phuoc Hoa Solar Power Plant (76MWp)	60.4	2025-2030		Connecting to 220kV compartment at 500kV Chon Thanh substation	
8	Thac Mo 2 Solar Power Plant (150MWp)	120	2025-2030		Connecting to 220kV Dong Binh Phuoc line - Binh Long branch - aluminum electrolysis branch	
9	Asia Thac Mo Floating Solar Power Plant (Thac Mo 5 Floating Solar Power Plant) 200MWp	160	2025-2030		Construction of 220kV Dong Binh Phuoc substation, capacity 200+300MVA (01 300MVA transformer for Asia Thac Mo 2 floating solar power plant project); Construction of 220kV 4-circuit transmission line from 220kV Dong Binh Phuoc substation to transfer on 2 circuits of 220kV Binh Long - Dak Nong aluminum electrolysis line.	
10	Minh Tam Solar Power Plant (50MWp)	40	2025-2030		Connecting to the busbar compartment at 220kV of Chon Thanh 500kV substation	
11	Phuoc Hoa Solar Power Plant (174MWp)	139.2		2031-2035	Connecting to 220kV compartment at 500KV Chon Thanh substation	
12	Thac Mo Solar Power Plant Phase 2 (275 MWp)	220		2031-2035	Connecting to 220kV Binh Long 2 - 500kV Dak Nong line	
13	Thac Mo 1 Solar Power Plant (200MWp)	160		2031-2035	Connecting to 220kV Dong Binh Phuoc line - Binh Long branch - aluminum electrolysis branch	
14	Asia Thac Mo 2 Floating Solar Power Plant (Thac Mo 6 Floating Solar Power Plant) 300MWp	240		2031-2035	Construction of 220kV Dong Binh Phuoc substation, capacity 200+300MV A (01 300MVA transformer for Asia Thac Mo 2 floating power plant project); Construction of 220kV 4-circuit transmission line from 220kV Dong Binh Phuoc substation to transfer on 2 circuits of 220kV Binh Long - Dak Nong aluminum electrolysis line	
15	Thac Mo Binh Phuoc Floating Solar Power Plant Complex (400MWp)	320		2031-2035	Tie-in connection of 220kV Binh Long 2 - 500kV Dak Nong line	
16	Can Don Floating Solar Power Plant (350MWp)	280		2031-2035	Construction of 110kV step-up station for floating power plant on Can Don hydropower lake, capacity 1x63MVA. Construction of 110kV double-circuit transmission line from 110kV step-up station for floating power plant on Can Don hydropower lake,	

					transferring on 110kV Bu Dop transmission line - Can Don hydropower	
17	Srok Phu Mieng Lake Solar Power Plant (Phase 2) (125MWp)	100		2031-2035	Connecting to 220kV compartment at Phuoc Long 220kV station	
18	Minh Tam Solar Power Project (300MWp)	240		2031-2035	Connecting to the busbar compartment at 220kV of Chon Thanh 500kV substation	
19	Loc Ninh Solar Power Plant 6,7,9,10,11,12 (1.000MWp)	800		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
20	Tan Hung 1 Solar Power Plant (55MWp)	44		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
21	Tan Hung 2 Solar Power Plant (55MWp)	44		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
22	Loc Thien Solar Power Plant (500MWp)	395		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
23	Hai Ly Binh Phuoc 2 Solar Power Plant (180MWp)	144		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
24	Gianty Solar Power Plant Alpha Group 1 (50MWp)	40		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
25	Gelex 2 Solar Power Plant (210MWp)	165		2031-2035	Connecting to transformer AT2 of 22/220kV Gelex Binh Phuoc 1 solar power's step-up station	
26	Tan Long Solar Power Plant (40MWp)	32		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
27	Khang Nam Solar Power Plant (90MWp)	72		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
28	Ninh Phuoc Solar Power Plant (100MWp)	80		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
29	Fecon Solar Power Plant (48.8MWp)	39		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
30	50MWp Loc Ninh Solar Power Plant	40		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
31	Nam La Solar Power Plant (100MWp)	80		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
32	An Khang Binh Phuoc Solar Power Plant (100MWp)	80		2031-2035	Connecting to 220kV Loc Ninh - Binh Long 2 line	
	Binh Thuan Province		**524**	**266**		
1	Song Binh Solar Power Plant Project	200	2025-2030		- 110 kV line from the factory connects to the 110 kV line of Dai Ninh - Phan Ri hydropower. - In case the above connection plan cannot be implemented or is not suitable for the actual power grid, consider adjusting the connection plan supplementing Song Binh 220 kV station and 220 kV transmission line connecting to Vinh Tan - Phan Thiet 220 kV	Resolving difficulties according to Resolution 233/NQ-CP

					transmission line.	
2	Hong Liem 6.1 Solar Power Plant Project	40	2025-2030		110 kV line connected to Hong Liem 3 Solar Power Substation	
3	Tan Xuan Solar Power Plant Project	23.61	2025-2030		110 kV line connected to 110 kV [Switching Station], 220 kV Ham Tan substation	
4	Da Mi Solar Power Project Phase 2	70	2025-2030		Using the transmission system of Da Mi Hydropower Plant (existing)	
5	Ham Thuan Solar Power Project Phase 1	100	2025-2030		Using the transmission system of Ham Thuan Hydropower Plant (existing)	
6	Hong Phong 7 Solar Power Plant Project/Integrated Battery Storage	40	2025-2030		220kV double-circuit transmission line, tie-in connection on 1 circuit 220kV Vinh Tan - Phan Thiet transmission line; 22/220kV substation	Battery storage with capacity 50MW/150MWh
7	Vinh Hao 6.2 Solar Power Plant Project	110	2025-2030		New construction of 22/110kV VH6.2 substation; New construction of 110kV VH6.2 transmission line - VH6 switching station; New construction of 110/220kV substation at 110kV VH6 switching station; New construction of 220kV VH6 transmission line - Transit 1 circuit 220kV Vinh Tan - Phan Ri transmission line	
8	Hong Phong 7.2 Solar Power Plant Project / Integrated battery storage	24	2025-2030		Installing an additional 01 22/220kV transformer at the 220kV substation of Hong Phong 7 Solar Power Plant	Battery storage with capacity 20MW/60MWh
9	Song Binh 4 Solar Power Plant Project (Phase 1)	130	2025-2030		Proposing plan for connection to 220 kV Song Binh substation connected to 220 kV Vinh Tan - Phan Thiet transmission line.	
10	Tan Duc 1 Solar Power Plant Project	50	2025-2030		Connect to 110 kV Ham Tan 2 - Tan Duc line	
11	Ham Thuan Solar Power Project Phase 2	126		2031-2035	Using the transmission system of Ham Thuan Hydropower Plant (existing)	
12	Da Mi Solar Power Project Phase 3	30		2031-2035	Using the transmission system of Da Mi Hydropower Plant (existing)	
13	Song Binh 4 Solar Power Plant Project (Phase 2)	70		2031-2035	Connected to 220 kV Song Binh substation connected to 220 kV Vinh Tan - Phan Thiet transmission line.	
	Ca Mau Province					
1	Ngoc Hien Solar Power Plant	50	2026-2030		110kV double circuit line of Ngoc Hien Power Plant - 220kV Nam Can; expansion of 110kV compartment of 220kV Nam Can substation	
	Da Nang City					
1	Solar Power Plant Project in Hoa Vang	50	2026-2030		110 kV double circuit line, transit connection to 110 kV line, outgoing line 171 Cau Do substation – outgoing line 171 Da Nang	

					substation 500	
	Dak Lak Province		**3010**	**4907**		
1	KN Srepok 3 Solar Power	304	2025-2030		New construction of 500kV double circuit transmission line, tie-in connection on 500kV Pleiku 2 - Chon Thanh transmission line	Resolving difficulties according to Resolution 233/NQ-CP
2	Ea Sup 1 Solar Power	40	2025-2030		No connection plan yet	
3	Ia Lop 1 Solar Power	40	2025-2030		No connection plan yet	
4	Solar power plant on Srepok 3 hydropower lake	50	2028		Construction of new 220kV single circuit transmission line connecting to 220kV Srepok 3 Hydropower Plant Substation (existing)	
5	Solar power plant on Buon Kuop 1 hydropower lake	50	2028		Construction of 110kV single circuit transmission line connecting to 110/220kV station of Buôn Kuốp Hydropower Plant (existing)	
6	Solar power plant on Ea Sup Thuong lake phase 1	452	2025-2030		- Construction of 220kV double-circuit transmission line connecting to 500kV Krong Buk substation. - Expanding 02 220kV compartments at 500kV Krong Buk substation.	
7	Solar power plant on Krong Buk Ha lake 1,2	200	2025-2030		Krong Buk Ha 1 (50MW): Construct new 110kV double-circuit line with tie-in connection to Ea Kar-Krong Buk 110kV line. Krong Buk Ha 2 (150MW): Construct a new 220kV double-circuit line with tie-in connection to the 220kV Krong Buk - Nha Trang line, circuit 1.	
8	Floating solar power plant on Krong H'nang hydropower lake	100	2025-2030		Construction of 220kV double circuit transmission line connecting on 02 circuits of 220kV Song Ba Ha - Krong Buk transmission line	
9	Solar power plant on Ea H'leo irrigation lake	150	2025-2030		New construction of 220kV transmission line with 04 circuits connected on 220kV busbar, 500kV substation, Ea Nam wind power plant	
10	Ea Sup 1 Solar Power Plant	50	2025-2030		New construction of 110kV single circuit transmission line connected to the busbar of 110kV Cu Mgar substation	
11	Ia Lop 1 Solar Power Plant	50	2025-2030		New construction of 110kV single circuit transmission line connected to the 110kV busbar side of the 500kV transformer station of Xuan Thien - Ea Sup solar power plant	
12	Solar power plant cluster in sub-zone 293, Cu M'lan commune	500	2025-2030		500kV double circuit transmission line with tie-in connection to 500kV Pleiku 2-Chon Thanh transmission line	
13	Jang Pong 2 Solar Power Plant	50	2025-2030		110kV single circuit line connecting to existing 110kV Jang Pong solar power plant substation	
14	Ia Rve Solar Power Plant (including 04 plants from number 1 to number 4)	1000	2025-2030		Construction of 110kV transmission lines connecting to the 110kV side of the 500kV Xuan Thien - Ea Sup substation; Expansion of	

					the 500kV Xuan Thien - Ea Sup solar power substation, capacity 900MVA	
15	MT power plant combined with medicinal plant cultivation, phase 1	230	2025-2030		New construction of 220kV single circuit transmission line connected to 500kV Ea Nam substation	
16	Buon Don Solar Power Plant	48	2025-2030		220kV double circuit transmission line, tie-in connection on 220kV transmission line, Srepok 4A hydropower - Srepok 4 hydropower	
17	Solar power plant on Ea Sup Thuong lake phase 2	500		2031-2035	Shared Connection Line in Phase 1	
18	Solar power plant on Ea Sup Ha lake	150		2031-2035	Construction of 220kV transmission line connecting to 500kV Cu Mgar substation	
19	BCG Vu Bon grounded solar combined with semi-flooded power plant	187		2031-2035	Connecting 220kV voltage level to 500kV Renewable Energy 2 collector substation	
20	Rung Xanh Solar Power Plant	1100		2031-2035	Construction of 220kV double circuit transmission line connecting to 500kV Cu Mgar substation	
21	Ea Sup Solar Power Plant (including 05 plants from number 6 to number 10)	1400		2031-2035	Construction of 110kV transmission lines connecting to the 110kV side of the 500kV Xuan Thien - Ea Soup substation; Expansion of the 500kV Xuan Thien - Ea Sup solar power substation, capacity 900MVA; Construction of a new 500kV double-circuit transmission line, in-tie connection on the 500kV Pleiku 2 - Chon Thanh transmission line (circuit 2)	
22	MT Power Plant Combined with Medicinal Plant Cultivation, Phase 2	220		2031-2035	Shared Connection Line in Phase 1	
23	Cu Kbang Solar Power Plant Cluster	500		2031-2035	Construction of 220kV double circuit transmission line connecting to 500kV Cu Mgar substation	
24	Ea Hleo Solar Power Plant	50		2031-2035	Construction of 220kV double circuit transmission line connected to 220kV Krong Buk - Pleiku 2 transmission line	
25	Ea Huar Solar Power Plant	50		2031-2035	Construction of 110kV single circuit line connecting 110kV busbar to 110kV Buon Don substation	
26	VKSolar Power Plant -100MWp	100		2031-2035	Construction of 110kV double circuit transmission line connecting to the 110kV Cu M'gar - Buon Don transmission line	
27	Ia JLoi Solar Power Plant	200		2031-2035	Construction of 220kV single circuit line connecting to 500kV Cu Mgar substation	
28	Ea Bung Solar Power Plant	450		2031-2035	Construction of 220kV double circuit transmission line connecting to 500kV Cu Mgar substation	
	Dak Nong Province	**893**				
1	KN Buôn Tua Srah Solar Power	312	2025-2030		Phase 1: Construction of 220 kV Buôn Tua Srah floating solar	Resolving

					power plant with a capacity of 125 MVA; Construction of 220 kV Buôn Tua Srah floating solar power plant transmission line - 220 kV Buôn Tua Srah hydropower plant; Expansion of 1 220 kV compartment at Buôn Tua Srah hydropower plant switchyard; Phase 2: Install the second transformer, capacity 250MVA at Buôn Tua Srah floating solar substation; Increase the load capacity of the 220kV Buôn Kuốp - Buôn Tua Srah - Dak Nong line	difficulties according to Resolution 233/NQ-CP
2	Cu Knia Solar Power	144	2025-2030		Constructing a 22/220 kV step-up transformer at Cu Knia Solar Power plant, capacity 160 MVA; Constructing a 220 kV switching station located near the expected connection location on the 220 kV Buôn Kuốp line - Aluminum Electrolysis Plant. Constructing a single-circuit 220 kV line from the 22/220 kV step-up transformer at Cu Knia Solar Power plant to the 220 kV switching station	
3	Ea TLinh Solar Power	76	2025-2030		Construction of 22/110kV step-up transformer at Ea Tling solar power plant, capacity (40+63)MVA; Construction of 110kV double-circuit transmission line from 22/110kV step-up transformer at Ea T'ling solar power plant, tie-in connection to 110kV transmission line Buon Kuop - Krong No	
4	Xuyen Ha Solar Power	104	2025-2030		Construction of 22/220 kV step-up transformer at Xuyen Ha power plant, capacity 1x125 MVA; Construction of 220 kV double-circuit transmission line from 22/220 kV step-up transformer at Xuyen Ha power plant, with tie-in connection to 220 kV transmission line Buon Kuop - Buon Tua Srah Hydropower Plant	
5	Duc An	30	2025-2030		Tie-in connection on 220 kV Dak Nong - Buon Kuop line	
6	Buon Kuop	87	2025-2030		22/110kV busbar connection of Buon Kuop floating solar power plant, Dak Lak province	
7	Srepok 3	100	2025-2030		22/220kV busbar connection of Srepok 3 floating solar power plant, Dak Lak province	
8	Ea Po 1 Solar Power	40	2025-2030		220kV busbar connection of 220kV Serepok 4 Hydropower Substation	
	Dien Bien Province		**850**	**250**		
1	Nam Po 1 Solar Power Plant	150	2025-2030		Connecting to 220kV transformer station of Envision Nam Po wind power plant via 220kV transmission line from 220kV transformer station of Nam Po 1 solar power plant	
2	Solar power project on Pa Khoang lake surface with integrated storage battery	200	2025-2030		110kV double circuit line connected to 110kV [Switching Station] 220kV Dien Bien substation and expanding 02 110kV compartments at 220kV Dien Bien substation	

3	Dien Bien 1 Solar Power Plant	300	2025-2030		Connection to 220kV Dien Bien Station	
4	Solar power project on Trung Thu hydropower lake	100	2025-2030		Constructing new 35/110kV substation, connecting transit to existing 110kV line of Trung Thu Hydropower Plant	
5	Solar power project on Song Ma 3 hydropower lake	100	2025-2030		Constructing a 110kV substation at Song Ma 3 solar power plant with a capacity of 01 125MVA machine. Constructing a 110kV double-circuit transmission line, connecting to the 110kV busbar of Song Ma 3 substation.	
6	Anh Huy Solar Power Project	50		2031-2035	Connecting to the 110kV Tuan Giao - Trung Thu grid	
7	Rang Dong Solar Power Plant	200		2031-2035	Expected connection of Transit to 220kV line Son La - Dien Bien	
	Dong Nai Province		**1069**	**3942**		
1	KN Tri An floating solar power plant	928	2025-2030		Phase 1: Construction of new 110 kV double-circuit transmission line, connecting from 110 kV KN Tri An substation to 110 kV Vinh An substation. Phase 2: Construction of a new 500 kV double-circuit transmission line from the 500 kV KN Tri An substation, with tie-in connection to the 500 kV Song May - Tan Dinh transmission line.	Resolving difficulties according to Resolution 233/NQ-CP
2	Tri An Solar Power	101	2025-2030		110 kV and 22 kV voltage connection	
3	Ho Gia Ui Solar Power Plant (phase 1)	40	2025-2030		Tie-in connection on 220 kV Ham Thuan - Da Mi - Xuan Loc line	
4	Ho Gia Ui Solar Power Plant (phase 2)	80		2031-2035	Connecting to 220 kV Ho Gai Ui Solar Power Station (phase 1)	
5	Cau Dau Lake Solar Power Plant	100		2031-2035	Tie-in connection on 110 kV Xuan Loc - Cam My line	
6	Gia Mang Lake Solar Power Plant	79		2031-2035	Tie-in connection on 110 kV Xuan Loc - Xuan Truong line	
7	Quarry lake solar power (Tan Hanh lake, Binh Hoa lake, Tan Van lake, Hoa An lake, Tan Ban lake)	100		2031-2035	22 kV double circuit line connected to existing 22 kV line and 110 kV Bien Hoa substation	
8	Tri An 1 Lake Solar Power	500		2031-2035	Construction of 35/500 kV Tri An Solar power Substation.	
9	Tri An 2 Lake Solar Power	500		2031-2035	Construction of 500 kV double-circuit transmission line with tie-in connection to 1 circuit of 500 kV Di Linh - Tan Dinh transmission line.	
10	Tri An 3 Lake Solar Power	500		2031-2035		
11	Tri An 4 Lake Solar Power	500		2031-2035		
12	Tri An 5 Lake Solar Power	600		2031-2035	New construction of 500 kV double-circuit transmission line, with tie-in connection on 01 circuit of 500 kV Di Linh - Tan Dinh transmission line	
13	Tri An 6 Lake Solar Power	600		2031-2035	New construction of 500 kV double-circuit transmission line, forward connection on 01 circuit of 500 kV Di Linh - Tan Dinh transmission line	
14	Solar power in semi-flooded areas	160		2031-2035	Tie-in connection on 110 kV line Kiem Tam - Dinh Quan 2 - Dinh Quan.	

					Connection to 110 kV busbar 110 kV Dinh Quan 2 station.	
15	Solar power for irrigation lake	223		2031-2035	Connection to the 22 kV, 110 kV and 220 kV grid of the area	
	Dong Thap Province		**74**	**249**		
1	Thap Muoi 1 Solar Power	74	2025-2030		Connected to 110kV Thap Muoi - Truong Xuan - Tam Nong line	
2	Thap Muoi 2 Solar Power	99		2031-2035	Connected to 110kV Thap Muoi - Truong Xuan - Tam Nong line	
3	Tan Hong Solar Power	50		2031-2035	Connected to 110kV Hong Ngu - Vinh Hung line	
4	Tam Nong Solar Power	100		2031-2035	110kV An Long - Tam Nong Line	
	Gia Lai Province	**1030**				
1	IaLy -Gia Lai KN solar power plant	400	2025-2028		Constructing 2 new 500kV power lines of KN Ialy - Gia Lai power plant with tie-in connection to the 500kV Pleiku - Ialy hydropower plant (adjusted compared to the connection plan in Official Dispatch No. 1870/TTg-CN dated December 31, 2020 due to the difficulty in expanding the compartment at Ialy hydropower)	
2	Krong Pa 2	39.2	2025-2030		110 kV Krong Pa 2 Solar Power Substation, capacity of 2x25 MVA. Construction of 110 kV double-circuit transmission line with tie-in connection to 110 kV transmission line from Dak Srong 3A+3B hydropower to Krong Pa solar power. When 220 kV Krong Pa Substation is invested, research the conversion of the connection of Krong Pa 2 solar power to 220 kV Krong Pa Substationby 110 kV transmission line.	Resolving difficulties according to Resolution 233/NQ-CP
3	Phu Thien	32	2025-2030		Construction of 110kV double circuit transmission line with tie-in connection on 110kV Chu Se - Ayun Pa transmission line	
4	Chu Ngoc phase 2	20	2025-2030		Construction of 110 kV single circuit transmission line connected to 110 kV Krong Pa substation	
5	Trang Duc	39.2	2025-2030		110 kV tstation at Trang Duc solar power, capacity 50 MVA; 110 kV transmission line connected to the 110 kV transmission line of Krong Pa - Dak Srong 3B hydropower plant. When the 220 kV Krong Pa transformer station is invested, research teh conversion of the connection of Trang Duc solar power plant to the 220 kV Krong Pa station using the 110 kV transmission line.	
6	Ayun Pa	20	2025-2030		110 kV double circuit transmission line, tie-in connection on 110 kV Ayun Pa - Ea H'leo transmission line	
7	Ia R Suom - Bitexco - ToNa	11.84	2025-2030		Connect to 22 kv busbar of Dak Srong 3B Hydropower Plant	
8	Plei Tho Ga 1 floating solar power plant combined with battery storage system	35	2025-2030		Connecting with 220kV voltage level with tie-in connection to 220kV line of 500kV Pleiku - Krong Buk substation or connecting to 01 compartment of 220kV - 500kV Nhon Hoa substation	
9	Plei Tho Ga 2 floating solar power plant combined with battery storage	20	2025-2030		Connecting with 220kV voltage level with tie-in connection to 220kV line of 500kV Pleiku - Krong Buk substation or connecting	

	system				to 01 compartment of 220kV - 500kV Nhon Hoa substation	
10	Ia Blu 4 Solar Power	40	2025-2030		Connecting by 220kV line to Nhon Hoa 500kV substation (in case Ia Blu 500kV substation changes its investment phase before 2030, such 220kV line would be connected to this station)	
11	Ia Blu 3 Solar Power	40	2025-2030		Connecting by 220kV line to Nhon Hoa 500kV substation (in case Ia Blu 500kV substation changes its investment phase before 2030, such 220kV line would be connected to this station)	
12	Ia Blu A Solar Power	40	2025-2030		Connecting by 220kV line to Nhon Hoa 500kV substation (in case Ia Blu 500kV substation changes its investment phase before 2030, such 220kV line would be connected to this station)	
13	Nhon Hoa 2 Solar Power	90	2025-2030		- Construction of 220kV compartment, installation of 33/220kV transformer with capacity of 125MVA at 500kV substation of Nhon Hoa 1 Wind Power Plant. - Construction of 33 kV outgoing line to connect Inverter stations to the 33 kV compartment of the 33/220kV step-up transformer at the 500kV substation of Nhon Hoa 1 Wind Power Plant.	
14	Nhon Hoa 1 Solar Power	49	2025-2030		- Construction of 220kV compartment, installation of 33/220kV transformer with capacity of 63MVA at 500kV substation of Nhon Hoa 1 Wind Power Plant. - Construction of 33 kV outgoing lines to connect Inverter stations to the 33 kV compartment of the 33/220kV step-up transformer at the 500kV substation of Nhon Hoa 1 Wind Power Plant.	
15	Nhon Hoa 1A Solar Power Plant combined with Battery Storage System	49	2025-2030		- Construction of 220kV compartment, installation of 33/220kV transformer with capacity of 63MVA at 500kV substation of Nhon Hoa 1 Wind Power Plant. - Construction of 33 kV outgoing lines to connect Inverter stations to the 33 kV compartment of the 33/220kV step-up transformer at the 500kV substation of Nhon Hoa 1 Wind Power Plant.	
	Hanoi City		**280**			
1	Suoi Hai Lake Floating Solar Power Plant	120	2025-2030		Connect to 110kV line to 110kV Ba Vi substation	
2	Dong Mo Lake Floating Solar Power Plant	160	2025-2030		Connect to 110kV line, 110kV station of National University	
	Ha Tinh Province		**330**	**1336**		
1	Son Quang Solar Power Plant	23.2	2025-2030			Resolving difficulties according to Resolution

						233/NQ-CP
2	Cam Lac Solar Power Plant	100		2031-2035	220kV double circuit transmission line with transit connection to 220kV Ha Tinh - Vung Ang transmission line	
3	Ky Son Solar Power Plant Phase 1	50	2025-2030		220kV single circuit line connected to busbar of 220kV Vung Ang substation (new construction of compartment)	
4	Ky Son Solar Power Plant Phase 2	200		2031-2035	220kV single circuit line connected to busbar of 220kV Vung Ang substation (new construction of compartment)	
5	Solar power projects on irrigation canals	59.4	2025-2030		Distribution grid and medium voltage grid along the canal	
6	Solar power projects on irrigation canals	571		2031-2035	Distribution grid and medium voltage grid along the canal	
7	Song Rac Floating Solar Power Plant Phase 1	180	2025-2030		Construction of 35/500kV Step-up Station of Song Rac Solar Power and 500kV single-circuit transmission line connecting the Plant with 500kV Ha Tinh Substation; Expansion of 01 500kV compartment at 500kV Ha Tinh Substation	
8	Song Rac Floating Solar Power Plant Phase 2	220		2031-2035	Construction of 35/500kV Step-up Station of Song Rac Solar Power and 500kV single-circuit transmission line connecting the Factory with 500kV Ha Tinh Substation; Expansion of 01 500kV bay at 500kV Ha Tinh Substation	
9	Ke Go 1 Floating Solar Power Plant Phase 1	100	2025-2030		Construction of new 220kV transmission line connecting to 220kV busbar of 500kV Ha Tinh substation	
10	Ke Go 1 Floating Solar Power Plant Phase 1	100		2031-2035	Construction of new 220kV transmission line connecting to 220kV busbar of 500kV Ha Tinh substation	
11	Ke Go 2 Floating Solar Power Plant	145		2031-2035	Connecting to 220kV substation of Ke Go 1 floating solar power plant	
	Hau Giang Province	**50**		**372**		
1	Sao Mai 1 Solar Power	50	2025-2030		110kV single circuit transmission line with transit connection to 110kV Long My - Hong Dan transmission line	
2	Sao Mai 1 Solar Power (expansion)	172		2031-2035	Construction of 4-circuit with tie-in connection on 220kV double-circuit line Soc Trang 2 - Chau Thanh - O Mon. Construction of new 33/220kV - 450MVA transformer station	
3	Sao Mai 2 Solar Power	200		2031-2035	Construction of 4-circuit line with tie-in connection on 220kV double-circuit line of Ca Mau - O Mon Thermal Power. Construction of new 33/220kV - 250MVA transformer station	
	Hue City		**290**	**950**		
1	Phong Hoa Solar Power Plant	40	2025-2030		110 kV double circuit transmission line with tie-in connection on 110 kV line of Phong Dien 2 solar power to 220 kV Phong Dien substation	Resolving difficulties according to

						Resolution 233/NQ-CP
2	A Luoi Solar Power Plant	105	2025-2030		New construction of 220kV single circuit transmission line connecting to 220kV station of A Luoi Hydropower Plant with outgoing lines to A Luoi - Phong Dien	
3	Dien Huong Solar Power Plant	95	2025-2030		New construction of 110 kV single circuit line connected from 110 kV busbar of 22/110 kV substation of Dien Huong Solar Power Plant connected to busbar of My Thuy 110 kV transformer station .	
4	Phong Dien III Solar Power Plant	50	2025-2030		Construction of new 110 kV single circuit transmission line connecting to Phong Dien II 110 kV substation	
5	Cau Hai Solar Power (Phase 1)	350		2031-2035	4-circuit 220 kv with tie-in connection on 220 kv line Hue - Hoa Khanh	
6	Tam Giang Solar Power	600		2031-2035	220 kV double circuit line connected to Phong Dien 220 kV substation	
	Khanh Hoa Province		**100**			
1	Ninh Sim Solar Power	32	2025-2030			Resolving difficulties according to Resolution 233/NQ-CP
2	Long Son Solar Power Plant - Phase 2	100	2026		Connect to 220 kV Van Phong substation on the basis of utilizing the connection infrastructure of Long Son solar power plant phase 1, build 06-circuit 22 kV transmission lines from Long Son solar power plant phase 2 to Long Son solar power switchyard phase 1	
	Kien Giang Province		**400**			
1	Solar power on Giang Thanh 1 shrimp pond	400	2026-2030		220kV level connection to existing Kien Binh 220kV substation: - At the 35/220kV substation of solar power project on Giang Thanh 1 shrimp pond,install 02 35/220kV transformers - (2x250) MVA and 02 220kV feeder bays to Kien Binh substation; - Construction of 220kV double-circuit transmission line to 220kV Kien Binh substation; - Construction of 02 220kV expansion feeder bays at Kien Binh 220kV substation.	
	Kon Tum Province		**550**			
1	KN Ialy Kon Tum Solar Power	160	2025-2028		Construction of a 110kV double-circuit transmission line from the 35/110kV step-up station at KN Ialy Kon Tum Solar Power Plant to the 35/110/500kV step-up station at KN Ialy - Gia Lai Solar	Resolving difficulties according to

					Power Plant (adjusted compared to the connection plan in Official Dispatch No. 1870/TTg-CN dated December 31, 2020).	Resolution 233/NQ-CP
2	Ia Toi DT Solar Power	140	2025-2030		Connecting by 220kV double circuit transmission line to 220kV transmission line of Se San 3 A Hydropower Plant - 500kV Pleiku Substation	
3	Dak Ro Sa Solar Power	50	2025-2030		110kV single circuit line connected to 110kV Tan Mai Dak To substation	
4	FSI Plei Krong Solar Power (on Plei Krong Hydropower lake) - Phase 1	75	2025-2030		Connecting by 220kV line to 220kV Kon Tum substation	
5	Pleikrong DK Floating Solar (Phase 1)	40	2025-2030		Connecting by 220kV line to 220kV Kon Tum substation	
6	Ya Tang Solar Power	60	2025-2030		Tie-in connection to 220kV line of Se San 3A - Se San 3 substation by 220kV line	
7	Se San 3A Solar Power (on Se San 3A Hydropower Lake) - Phase 1	25	2025-2030		220kV Se San 3A Solar Power Station - 60MVA; 220kV single circuit transmission line Se San 3A Solar Power Station - Se San 3A Hydropower; 220kV single-compartment MR at Se San 3A Hydropower's Switchyard	
	Lai Chau Province	**1060**		**420**		
1	Ban Chat 1 Solar Power	250	2025-2030		220kV NR Solar Power Line of Ban Chat 1 (220kV Line Ban Chat - Huoi Quang)	
2	Ban Chat 2 Solar Power	300	2025-2030		220kV NR Solar Power Line of Ban Chat 2 (220kV Line Ban Chat - Huoi Quang)	
3	Huoi Quang 1 Solar Power	100	2025-2030		110kV Line 110kV Substation Huoi Quang 1 Solar Power Plant - 220kV Substation Huoi Quang 2, 3 Solar Power Plants	
4	Huoi Quang 2 Solar Power	140	2025-2030		220kV Huoi Quang 2,3 substation, capacity 450MVA and 220kV transmission line with transit connection on 220kV Huoi Quang - Than Uyen transmission line	
5	Huoi Quang 3 Solar Power	100	2025-2030		35kV line of Huoi Quang 3 Solar Power Plant - 220kV substation of Huoi Quang 2, 3 Solar Power Plant	
6	Nam Manh Solar Power	80	2025-2030		110kV single circuit Nam Manh Solar Power - 220kV Nam Hang – 500kV Lai Chau substation	
7	Nam Hang Solar Power	90	2025-2030		220/110/35kV Nam Hang substation, capacity (250+125) MVA and 220kV double circuit Nam Hang solar power transmission line - 500kV Lai Chau substation	
8	Floating solar power on Lai Chau hydropower lake	120		2031-2035	220 kV 04-circuit floating solar power lines on Lai Chau hydropower lake - Lai Chau - Muong Te branch	Progress can be pushed forward to phase 2025-2030 if
9	Floating solar power on Ban Chat Lake	200		2031-2035	220 kV double-circuit floating solar power transmission line on Ban Chat hydropower lake - Than Uyen - Ban Chat branch; 220	

					kV double-circuit floating solar power transmission line on Ban Chat hydropower lake - Than Uyen - Huoi Quang branch	conditions are favorable.
10	Huoi Quang 1 floating solar power (on Huoi Quang rhydorpower lạke)	50		2031-2035	220 kV double circuit line of Huoi Quang 1 floating solar power - Than Uyen - Ban Chat branch	
11	Huoi Quang 2 floating solar power (on Huoi Quang hydropower lake)	50		2031-2035	220 kv double circuit line of Huoi Quang 1 - Than Uyen - Huoi Quang branch	
	Lam Dong Province		**336**	**70**		
1	Tam Bo Solar Power	40	2025-2030		Tie-in connection on 110 kV Di Linh - Da Dang 3 line	Resolving difficulties according to Resolution 233/NQ-CP
2	Floating solar power on Dai Ninh hydropower lake	96	2025-2030		Tie-in connection on 220kV Duc Trong - Di Linh line	
3	Floating solar power on Dong Nai 2 hydropower lake	240	2025-2030		Connecting with 220kV line to Dong Nai 2 Hydropower	
4	Floating solar on Krong No 3 hydropower lake	70		2031-2035	Construction of 22/110 kV step-up transformer station of Krong No 3 power plant	
	Long An Province		**268**	**116**		
1	TTC Duc Hue 2 Solar Power Plant	41.4	2025-2030		110 kV line connecting existing TCI110kV TTC Duc Hue 1 solar power plant to 110 kV [Switching Station] 110 kV Duc Hue substation	Resolving difficulties according to Resolution 233/NQ-CP
2	Solar Park 7 Solar Power Plant	80	2025-2030		- 220 kV line from 220 kV Solar Park solar power substation connected to 220 kV busbar of 500 kV Duc Hoa substation. Expanding 220 kV compartment at 500 kV Duc Hoa substation. - Install a 220 kV transformer with a capacity of 125 MVA at the 220 kV Solar Park solar power substation. - Construction of medium voltage underground cables connecting to the 125 MVA transformer at the 220 kV Solar Park solar power substation.	
3	RedSun Solar Power Plant	60	2025-2030		Connect to the existing 110kV busbar of Gaia Solar Power Plant via the 110kV double-circuit line to transmit electricity from Gaia Solar Power Plant to the 220kV Long An 2 station.	
4	Duc Hue VNT 1 Solar Power	40	2025-2030		220 kV single circuit line of Duc Hue VNT 1 solar power plant connected to 220kV busbar of 550kV Duc Hoa substation. Installation of transformer T1 with capacity of 63MVA	

5	Duc Hue VNT 2 Solar Power	30	2025-2030		Installing T2 transformer with capacity of 63MVA at Duc Hue VNT 1 Solar Power Plant	
6	Solar Park 06 Solar Power Plant (Phase 1)	16.6	2025-2030		Installing 1 220 kV transformer, capacity 63 MVA at 220 kV Solar Park solar power substation. Constructing medium voltage underground cables connecting to 63 MVA transformer at 220 kV Solar Parksolar power substation.	
7	Solar Park 06 Solar Power Plant (Phase 2)	36		2031-2035	Installing 1 220 kV transformer, capacity 63 MVA at 220 kV Solar Park solar power station. Constructing medium voltage underground cables connecting to 63 MVA transformer at 220 kV Solar Park solar power substation.	
8	Solar Park 8 Solar Power Plant	80		2031-2035	Install 1 220 kV transformer, capacity 63 MVA at 220 kV Solar Park solar power substation. Construct medium voltage underground cables connecting to 63 MVA transformer at 220 kV Solar Park solar substation	
	Nghe An Province		**360**			
1	Khe Go Lake Solar Power Plant	200	2025-2030		Connection to 110kV busbar of 220kV Quynh Luu substation	Resolving difficulties according to Resolution 233/NQ-CP
2	Vuc Mau Lake Floating Solar Power Plant	160	2025-2030		Tie-in connection to 220kV Quynh Luu - Nghi Son line	
	Ninh Thuan Province		**1924**	**3819.5**		
1	Phuoc Thai 2 Solar Power Plant	87	2025-2030		Connect to 22 kV busbar of 220 kV Phuoc Thai substation	Resolving difficulties according to Resolution 233/NQ-CP
2	Phuoc Thai 3 Solar Power Plant	43.5	2025-2030		Connect to 22 kV busbar of 220 kV Phuoc Thai substation	
3	Phuoc Huu 2 Solar Power Plant	184	2026		Construction of 220kV double circuit transmission line connecting to 220kV Ninh Phuoc substation	
4	Phuoc Trung Solar Power Plant	40	2026		Construction of 220kV double circuit transmission line with tie-in connection to the 220kV Thap Cham - Nha Trang transmission line	
5	Bac Ai 7 solar power plant Song Cai lake	70	2025-2030		Construction of 220kV double circuit transmission line from Bac Ai lake solar power plant uiwth transit connection on 220kV Thap Cham - Da Nhim transmission line	
6	Nhi Ha Solar Farm solar power	80	2025-2030		Construction of 220kV single circuit line Connected to 220kV busbar of 500/220kV Thuan Nam substation	
7	Song Sat lake Solar power	70	2025-2030		Construction of 220kV double circuit transmission line from Ho Song Sat Solar Power Plant with transit connection on 220kV Thap Cham - Nha Trang transmission line	
8	Dong Quan The Solar Power Plant	250	2025-2030		Tie-in connection to 220kV Vinh Tan line - 220kV Quan The switching station, construction of 35/220kV Dong Quan The	

					substation with a scale of 03 35/220kV transformers with a capacity of 160MVA, 220kV double-circuit line from 35/220kV Dong Quan The substation iwth tie-in connection on 220kV Quan The [Switching Station] - 220/500kV Vinh Tan substation.	
9	My Son - Hoan Loc Viet Phase 2	50	2025-2030		Connection to 220kV My Son - Hoan Loc Viet substation (existing of Phase 1)	
10	Hacom Solar solar power Phase 2	50	2025-2030		Connection to 220kV compartment of 220kV Hacom Solar Power Solar Plant's Substation	
11	CK7 Lake Solar Power Project	50	2025-2030		Tie-in connection on 220kV Ninh Phuoc - Thuan Nam line	
12	Ninh Phuoc Solar Power 6.3	50	2025-2030		Construction of 220kV double-circuit transmission line from 220kV substation of Ninh Phuoc 6.3 solar power plant with transit connection on 220kV Ninh Phuoc - 500kV Ninh Son transmission line	
13	Song Than Lake Solar Power	50	2025-2030		220kV double-circuit Line from Ho Song Than solar power - 500kV Ninh Son Double Circuit Substation	
14	Hoa Son Doc Dai Solar Power	400	2025-2030		220kV double-circuit line from Hoa Son Doc Dai Solar Power - 500kV Ninh Son Substation	
15	Bac Ai 1 Solar Power	150	2025-2030		Construction of 220kV double-circuit transmission line from Bac Ai 1 solar power plant with tie-in connection to the 220kV Da Nhim - Thap Cham 2 transmission line	
16	Ninh Son 1 Solar Power	73.5	2025-2030		Construction of 220kV double-circuit transmission line from 220kV substation of Ninh Son 1 solar power with transit connection on 220kV Ninh Phuoc transmission line - 500kV Ninh Son substation	
17	Dong Quan The 2 Solar Power Plant	50	2025-2030		Connect to the 220kV Quan The switching station with the following volume: - Invest in T2 35/220kV - 63MVA transformer at the backup location of BIM 3 substation and synchronous equipment, complete the connection diagram of BIM 3 220kV substation - Expand 1 outgoing compartment of 220kV BIM 3 substation to Quan The switching station - String 2 circuits of 220kV BIM3 lines - Quan The switching station. - Expanding 1 220kV compartment at Quan The Switching Station (271)	
18	Hoa Son Suoi Ong 4 Solar Power	350	2025-2030		220kVdouble-circuit line from Hoa Son Suoi Ong 4 Solar Power - 500kV Ninh Son Substation	
19	Expanded Phuoc Ninh Solar Power Plant phase 2	50	2025-2030		Construction of 220kV ACSR 2x330 double-circuit transmission line from 220kV Phuoc Ninh step-up substation to expand tie-in connection on 220kV transmission line from 500kV Thuan Nam	

					substation to 500kV Vinh Tan substation	
20	Nhi Ha Solar Farm (Phase 2)	50		2031-2035	Construction of 220kV single circuit line connected to 220kV busbar of 500/220kV Thuan Nam substation	
21	CK7 lake solar power project (Phase 2)	100		2031-2035	Tie-in connection on 220kV Ninh Phuoc - Thuan Nam line	
22	Ninh Phuoc 7 Solar Power Project	200		2031-2035	Tie-in connection on 220kV Ninh Phuoc - Ninh Son line	
23	Dong Quan The Solar Power Plant (Phase 2)	50		2031-2035	Dong Quan The Power Plant connects to the 220kV Vinh Tan line - 220kV Quan The switching station, builds Dong Quan The 35/220kV substation with a scale of 03 35/220kV transformers with a capacity of 160MVA and 02 outgoing feeders of 220kV transmission line, and reserves a position for 01 220kV transmission line feeder to 220kV Ca Na substation. - 220kV double-circuit line from 35/220kV Dong Quan The substation, with tie-in connection on 220kV line of Quan The [Switching Station] - 220/500kV Vinh Tan substation	
24	Hoa Son Suoi Ong 4 Solar Power	50		2031-2035	220kV Line of Hoa Son - Suoi Ong Bon Solar Power - 500kV Ninh Son Double Circuit Substation	
25	Bac Ai 7 solar plant Song Cai lake	60		2031-2035	with transit connection on 220kV Thap Cham - Da Nhim line	
26	Ninh Phuoc Solar Power	276		2031-2035	Tie-in connection on 1 circuit of Ninh Phuoc 220kV line - Ninh Son 500kV substation; with the following investment and construction items to serve the connection: - Constructing a new 220kV Ninh Phuoc Solar Power Substation with a capacity of 2x150MVA to collect the capacity of Ninh Phuoc Solar Power Plant; - Construction of a 220kV double-circuit transmission line connecting Ninh Phuoc Solar Power Plant to a 500kV Ninh Son substation via tie-in connection on a single circuit 220kV line.	
27	Ba Rau Lake Solar Power	80		2031-2035	Construction of 220kV double circuit transmission line with tie-in connection to the 220kV Cam Ranh - Thap Cham transmission line	
28	Expanded Phuoc Ninh Power phase 2	38		2031-2035	Construction of 220kV double-circuit transmission line from 220kV step-up substation of the expanded Phuoc Ninh solar power, with tie-in connection on 220kV transmission line from 500kV Thuan Nam station 1 to 500kV Vinh Tan station	
29	Tra Co Lake Solar Power	40		2031-2035	Construction of 2 ciruits of 220kV lines of Tra Co lake solar power with tie-in connection onto single ciruit 220kV line from Thien Tan solar power to Nha Trang solar power	
30	7A Solar Power	50		2031-2035	Collecting power to the existing 110kV substation of 7A wind	

					power plant by 22kV double-circuit transmission line (transmitting to the national grid by 110kV double-circuit transmission line from 7A wind power plant to 220kV Ninh Phuoc substation	
31	Cho Mo Lake Solar Power Project	80		2031-2035	Tie-in connection on 220kV Thap Cham - Da Nhim line	
32	Nhi Ha Solar Power - Phase 2	150		2031-2035	Upgrading the capacity of Nhi Ha 220kV solar power substation from 63MVA to (63+150)MVA	
33	Nui Mot Lake 2 Solar Power	80		2031-2035	Construction of a single-circuit 220kV transmission line from the 220kV substation of Nui Mot 2 Lake Solar Power to the 220kV Ninh Phuoc substation	
34	Tan Giang Lake Solar Power	50		2031-2035	Connecting with 220kV voltage level to 220kV substation of Thien Tan 1.2 solar power plant. Investment items for construction of 220kV line and substation serving connection are as follows: + Construction of 22/220kV Tan Giang Lake Power Plant Substation with capacity of 1x50MVA; + Construction of 220kV single circuit line connected to 220kV substation of Thien Tan 1.2 solar power plant + Investing in expanding 1 compartment of 220kV transmission line at 220kV substation of Thien Tan 1.2 solar power plant.	
35	Ta Ranh Lake Solar Power	39.5		2031-2035	220kV voltage level connection to 220kV substation of Thien Tan 1.2 power plant	
36	Thuan Nam 11 Solar Power	50		2031-2035	Tie-in connection on 220kV Vinh Tan - Ninh Phuoc line	
37	Hon Kho Solar Power	120		2031-2035	Tie-in connection on 01 circuit of 220kV Thap Cham - Nha Trang transmission line	
38	Bac Ai 14 Solar Power Plant	80		2031-2035	110kV double circuit line of Bac Ai 14 solar power plant - 220kV Thap Cham substation	
39	HIEU THIEN solar power plant	120		2031-2035	Connecting to 220kV busbar 220kV Ninh Phuoc substation	
40	Phuoc Chien Solar Power Plant	200		2031-2035	Tie-in connection of 220kV line from Bac Son wind power plant to the 220kV Nha Trang - Thap Cham line	
41	Tay Quan The Solar Power Plant	100		2031-2035	Connect to the 110kV compartment of the existing 35/110/220kV-250MVA transformer of the 220kV Substation of Bim 2 Solar Power. Connect to the 220kV grid via the 220kV BIM2 line - Quan The switching station - Vinh Tan - Thuan Nam branch; - Expand 1 compartment of 220kV BIM 2 substation - String 2 circuits of 220kV BIM2 line - Quan The switching station; - Expand 1 220kV compartment at the backup location at Quan The Switching Station (276).	
42	Tri Hai Solar Power Plant	100		2031-2035	Tri Hai solar power plant connects to 220kV Tri Hai wind power plant substation with the following volume:	

					- Investment in T2 33/220kV transformer - capacity 125MVA. Tri Hai solar power plant connects to T2 transformer. - Investing in expanding 220kV bays at Tri Hai 220kV wind power plant substation synchronized with T2 transformer.	
43	Nhi Ha 5 Solar Power Project Combined with Green Hydrogen Production	160		2031-2035	Construction of 220kV station connecting to 220kV Nhi Ha (250+125)MVA	
44	Thuan Nam 1 Solar Power Project Combined with Green Hydrogen Production	140		2031-2035	Construction of 220kV relay station on 2 circuits Phuoc Thai - Ninh Phuoc (250+125) MVA	
45	Ninh Son 2 Solar Power Plant	90		2031-2035	Proposal to build a 220kV switching station connected to the 500kV Ninh Son station	
46	Bac Ai 2 Solar Power Plant	160		2031-2035	Construction of 220kV switching station connecting to 500kV Ninh Son substation	
47	Bac Ai 3 Solar Power Plant	200		2031-2035	Proposal to build a 220kV switching station connected to the 500kV Ninh Son transformer station	
48	Nhi Ha Solar Power Plant	100		2031-2035	Construction of 110kV double-circuit transmission line from Nhi Ha 110kV transformer station to connection to Ca Na Industrial Park 110kV transformer station	
49	Thai Vinh 1 Solar Power Project	120		2031-2035	220kV forward connection on 2 circuits of 220kV Thap Cham Phuoc Thai transmission line - (2x250)MVA	
50	Thai Vinh 2 Solar Power Project	120		2031-2035	220kV forward connection on 2 circuits of 220kV Thap Cham Phuoc Thai transmission line - (2x250)MVA	
51	Quang Son 2 Solar Power Project	96		2031-2035	220kV connection to 500kV Ninh Son - (250+150) MVA, shared connection with Quang Son 1	
52	Thai Vinh 3 Solar Power Plant	120		2031-2035	Construction of 220kV station connecting to 220kV Phuoc Thai - 250MVA	
53	Bac Ai 11 Solar Power Plant with Battery Energy Storage System (BESS)	100		2031-2035	Connecting Bac Ai 11 solar power plant by double-circuit transmission on 220kV Ninh Phuoc - Thap Cham line	
54	Phuoc Ha Solar Power Plant with Battery Energy Storage System (BESS)	100		2031-2035	Expected to forward connect to 01 circuit of 220 kV Thuan Nam - Ninh Phuoc line	
55	Bac Ai Solar Power Plant 1.1	150		2031-2035	Constructing new 22kV/220kV substation, capacity 2x125MVA, forward connection on existing 220kV Da Nhim - Nha Trang line	
	Phu Tho Province		**100**			
1	Concentrated solar power	100	2026-2030		Connection to medium and low voltage grid	
	Phu Yen Province		**955**			

1	Floating solar power plant on Song Hinh lake	200	2025-2030		110kV line connected to 110kV Song Hinh Hydropower Substation	
2	Floating solar power plant of Song Hinh Lake 3	200	2025-2030		110kV line connected to 110kV Song Hinh Hydropower Substation	
3	Floating solar power plant on the lake of Song Ba Ha Hydropower Plant	220	2025-2030		Construction of 220kV floating solar power substation Song Ba Ha with capacity of 50MVA. Construction of floating 220kV solar power line Song Ba Ha - Song Ba Ha Hydropower Plant.	
4	Tay Hoa 1 Solar Power Plant	50	2025-2030		110 kV Line Connected to 220kV Tay Hoa 3 Solar Power Station	
5	Tay Hoa 2 Solar Power Plant	60	2025-2030		Forward connection to 110kV Son Hoa - 220kV Tuy Hoa line	
6	Tay Hoa 3 Solar Power Plant	70	2025-2030		Transfer to 220kV line Tuy Hoa Substation - Song Ba Ha Hydropower Plant	
7	Da Loc Phu Yen Solar Power Plant	55	2025-2030		110kV line connected to Dong Xuan 110kV substation	
8	Xuan Quang Phu Yen Solar Power Plant	100	2025-2030		110kV line connected to Dong Xuan 110kV substation	
	Quang Binh Province		**410**			
1	Le Thuy Solar Power Plant	60	2025-2030		Construction of 220kV Le Thuy solar power station with capacity of 2xl25MVA; Construction of new double-circuit transmission line connecting to 220kV Le Thuy solar power station, relaying on 1 circuit of 220kV Dong Ha - B&T1 transmission line.	
2	Quang Binh 1 Solar Power Plant	120	2025-2030		Transition to 220kV double circuit Dong Hoi - Ba Don	
3	Quang Binh 2 Solar Power Plant	80	2025-2030		Transition to 220kV double circuit Dong Hoi - Ba Don	
4	Solar power project integrated with 240 MWh battery storage system in Quang Binh	150	2025-2030		Connect to line 220 kV BT1 substation and 220 kV BT2 substation	
	Quang Ngai Province	**140**				
1	Dam Nuoc Man Solar Power Plant	40	2025-2030		Connection at 110 kV voltage level	Resolving difficulties according to Resolution 233/NQ-CP
2	Lam Binh Solar Power Plant	100	2025-2030		Transition connection on 220 kV Quang Ngai - Phu My line	
	Quang Ninh Province		**390**			
1	Yen Lap Lake Solar Power Plant	140	2025-2030		220kV double circuit transmission line transit connection to 220kV Trang Bach - Yen Hung - Uong Bi Thermal Power Plant transmission line	
2	Khe Che Lake Solar Power Plant	50	2025-2030		220kV double circuit transmission line transit connection to 220kV Pha Lai - Mao Khe Thermal Power Plant transmission line	
3	Quat Dong Lake Solar Power Plant	50	2025-2030		110kV double circuit transmission line transit connection to	

					110kV Hai Ha - Texhong - Mong Cai transmission line	
4	Dam Ha Dong (Lake) Solar Power Plant	50	2025-2030		220kV double circuit line, transit connection to 220kV Cam Pha - Hai Ha line	
5	Dam Ha Solar Power Plant	100	2025-2030		220kV double circuit line, transit connection to 220kV Cam Pha - Hai Ha line	
	Quang Tri Province		**270**	**581**		
1	Trieu Thuong 1,2 floating solar power project	70	2025-2030		Transition connection on 2 circuits of 110kV transmission line, Dong Ha 220kV station - Phong Dien 220kV station	
2	Trieu Son 1 Solar Power Project	50	2025-2030		Connection to My Thuy 110 kV substation	
3	Truc Kinh 2 Solar Power Plant Project	100	2025-2030		Construction 220 kV double circuit transmission line connected forward on 1 circuit 220 kV Dong Ha - Dong Hoi transmission line	
4	Ha Thuong Solar Power Plant Project	50	2025-2030		Construction 220 kV double circuit transmission line connected forward on 1 circuit 220 kV Dong Ha - Dong Hoi transmission line	
5	Hai Quy Solar Power Project, Hai Lang ward	50		2031-2035	110kV single circuit line connecting from Hai Quy Solar Power Plant to 110kV busbar of existing 110kV Dien Sanh Substation	
6	Floating solar power plant project with battery storage in Kinh Mon 1 lake	40		2031-2035	New construction of 220KV transmission line from the step-up station of Kinh Mon floating solar power plant and storage battery - Branch 1 circuit of 220kV transmission line Dong Ha - Dong Hoi	
7	Hai Duong Solar Power Project, Hai Lang District	65		2031-2035	Connecting 110kV voltage level to My Thuy 110kV substation busbar using single circuit 110kV transmission line	
8	Floating Solar Power Project - Quang Tri 2 Hydropower Plant	40		2031-2035	Construction of 220kV single circuit transmission line from Quang Tri floating solar power plant to Lao Bao 220kV substation	
9	Floating solar power plant project with storage battery in Kinh Mon 2 lake	40		2031-2035	New construction of 220KV transmission line from the step-up station of Kinh Mon floating solar power plant and storage battery - Branch 1 circuit of 220kV transmission line Dong Ha - Dong Hoi	
10	Truc Kinh Lake 3 Floating Solar Power Plant Project	40		2031-2035	New construction of 220kV double-circuit transmission line from the step-up station of Truc Kinh Lake floating solar power plant - Branch 1 circuit of 220kV transmission line Dong Ha - Dong Hoi	
11	Bao Dai floating solar power plant project	96		2031-2035	Construction of 220kV 2-phase circuit transmission line from 220kV Bao Dai substation to 220kV Dong Ha - Dong Hoi transmission line	
12	La Nga floating solar power plant project	70		2031-2035	Construction of 220kV single circuit transmission line from 220kV La Nga substation to 220kV Dong Ha - Dong Hoi transmission line	
13	Floating solar power plant project with storage battery of Dam Tram	140		2031-2035	Construction of 110kV single circuit line connected to 110kV busbar of Dien Sanh substation	

	lake					
	Soc Trang Province		**50**			
1	Thanh Tri Solar Power System – Subdivision	50	2025-2030		110 kV single circuit line connected to Thanh Tri 110kV substation busbar. Expanding Thanh Tri 110kV substation busbar.	
	Son La Province		**3315**	**1050**		
1	Bac Yen 1	55	2025-2030		- Constructing the 220 kV Bac Yen 1 Solar Power Station, with a capacity of 200 MVA to transmit power from Bac Yen 1 Solar Power Plant (55 MW), Bac Yen 2 Solar Power Plant (50 MW), and Bac Yen 3 Solar Power Plant (50 MW). - Construction of 220 kV double-circuit transmission line connecting transit to 220 kV Huoi Quang - Nghia Lo transmission line.	
2	Bac Yen 2	50	2025-2030		- Construction of 22 kV Bac Yen 2 transformer station. Construction of 22 kV 4-circuit transmission line from Bac Yen 2 solar power plant to 220 kV Bac Yen 1 station.	
3	Bac Yen 3	50	2025-2030		- Construction of 22 kV Bac Yen 3 transformer station. Construction of 22 kV 4-circuit transmission line from Bac Yen 3 solar power plant to 220 kV Bac Yen 1 station.	
4	Mai Son 1	50	2025-2030		Constructing a 220 kV substation with a capacity of 150 MVA in Tan Thao area, Co Noi commune to transmit the capacity of Mai Son 2 50 MW and Mai Son 3 60 MW; Constructing a 220 kV double-circuit transmission line connecting to the 220 kV Son La - Viet Tri transmission line	
5	Mai Son 2	60	2025-2030		Construction of 35kV 4-circuit transmission line connecting to 35kV side of 220kV Mai Son 2 station	
6	Muong La 1	40	2025-2030		Substation and 220kV double circuit line connecting 220kV Huoi Quang - Nghia Lo line	
7	Muong La 2	50	2025-2030		220kV line connecting to 220kV Muong La 1 Substation	
8	Floating solar power plant on Son La hydroelectric reservoir	800	2025-2030		Construction of 500kV transformer step-up station and 500kV transmission line connecting to Son La 500kV transformer station	
9	Song Ma 1	50	2025-2030		Connecting 110 kV voltage to 220kV Song Ma station	
10	Song Ma 2	50	2025-2030		Connecting 110 kV voltage to 220kV Song Ma station	
11	Song Ma 3	60	2025-2030		- Construction of 110 kV Song Ma 3 Solar Power Station with capacity of 100MVA - Construction of 110 kV single circuit line connected to 110 kV Muong Lam hydropower substation	
12	Chim Van clean power production complex - Phieng Pan solar power	1000	2025-2030		Construction of 500kV Phieng Pan Power Transmission Line and Substation connecting to 500kV Mai Son 8 Substation	

	plant and storage battery cluster					
13	Mai Son 4	75	2025-2030		Construction of 110 kV transmission line connecting to 500 kV Mai Son station	
14	Mai Son 5	210	2025-2030		Construction of 110kV double circuit transmission line from 110kV Mai Son 5 station connecting to 110kV busbar of 500kV Mai Son 7 station	
15	Mai Son 6	75	2025-2030		Connecting to 110kV side of 500kV Mai Son 7 station	
16	Mai Son 7	270	2025-2030		Construction of 500 kV Mai Son 7 station with capacity of 2700 MMA; Construction of 500 kV transmission line from 500kV Mai Son - Viet Tri substation	
17	Mai Son 8	85	2025-2030		Construction of 110kV single circuit transmission line from 110kV Mai Son 8 station connecting to 110kV busbar of 500kV Mai Son 7 station	
18	Mai Son 9	70	2025-2030		Construction of busbar zone 110kV single circuit from 110kV Mai Son 9 station connected to 110kV busbar of 500kV Mai Son 7 station	
19	Yen Chau 4	135	2025-2030		Construction of 110kV single circuit transmission line from Yen Chau 4 110kV station connecting to 110kV busbar of Mai Son 7 500kV station	
20	Yen Chau 5	80	2025-2030		Construction of 110kV single circuit transmission line from 110kV Yen Chau 5 station to 110kV busbar of 500kV Mai Son 7 station	
21	Son La 1.1 Floating Solar Power Project (on Son La Hydropower Reservoir)	350		2031-2035	Construction of 220 kV floating solar power line Son La 1.1 - Son La - Dien Bien branch	Can push the progress to the next stage early 2025-2030 if conditions are favorable
22	Son La 1.2 Floating Solar Power Project (on Son La Hydropower Reservoir)	350		2031-2035	Construction of 220 kV double circuit transmission line Son La 1.2 - Son La 1.1 floating power line	
23	Son La 2 Floating Solar Power Project (on Son La Hydropower Reservoir)	350		2031-2035	Construction of 220 kV 4-circuit floating solar power line Son La 2 - Huoi Quang branch - Son La	
	Tay Ninh Province		**450**	**314**		
1	Dau Tieng 5 Solar Power Plant	450	2025-2030		New construction of Dau Tieng 5 220kV substation and 220kV double-circuit transmission line from Dau Tieng 5 220kV substation connecting to Tay Ninh 220kV substation.	Resolving difficulties according to Resolution 233/NQ-CP
2	Tan Chau – Tuan Dung Solar Power Plant phase 1	314		2031-2035	Construction of new 220kV transmission line connecting to the 220kV Binh Long - Tay Ninh transmission line	

	Thai Nguyen Province		**220**			
1	Nui Coc Lake Floating Solar Power Plant	220	2025-2030		Connect to the busbar of 110kV Ho Nui Coc station	
	Thanh Hoa Province		**333**	**52**		
1	Thanh Hoa I Solar Power Plant Project	128	2025-2030		110kV four-circuit transmission line from 22/110kV Thanh Hoa power plant step-up station, 1 relay connection on 02 circuits 110kV transmission line from 220kV Nghi Son - 220kV Thanh Hoa	
2	Ngoc Lac Solar Power Plant	45	2025-2030		110kV Ngoc Lac Solar Power Line - Ngoc Lac	Resolving difficulties according to Resolution 233/NQ-CP
3	Long Son - Thanh Hoa Solar Power	80	2025-2030		110kV double circuit line, from 22/110 kV Long Son solar power step-up station connected to 110kV transformer station busbar of Long Son 2 cement factory	
4	Yen My 1 Lake Solar Power	80	2025-2030		Construction of 220kV double-circuit transmission line from 220kV Yen My Lake Power Plant Substation to 220kV Nong Cong - Nghi Son transmission line	
5	Yen My 2 Lake Solar Power	52		2031-2035	Connect to existing 110kV/220kV line	
	Tra Vinh Province		**50**			
1	Tra Solar Power Plant Project Vinh - Phase 2	50	2025-2030		- Install additional 1x63MVA transformer connected to the existing 220 kV of Trung Nam - Tra Vinh solar power plant substation . - Upgrading the 220KV transmission line of Trung Nam Tra Vinh Solar Power Plant - Connecting to the existing 500kV Duyen Hai substation	
	Tuyen Quang Province		**198**	**200**		
1	Grid-connected solar power projects	198	2025-2030		Connect to local 110kV, medium and low voltage distribution grid	
2	Tuyen Quang 1 Floating Solar Power Project (on Tuyen Quang Lake)	80		2031-2035	Construction of 220 kV double circuit transmission line Tuyen Quang 1 - Tuyen Quang 2 floating power line	Progress can be pushed forward to phase 2025-2030 if conditions are favorable.
3	Tuyen Quang 2 Floating Solar Power Project (on Tuyen Quang Lake)	120		2031-2035	Construction of 220 kV Tuyen Quang 2 floating power line - branching off Tuyen Quang Hydropower Plant - Bac Kan; 220 kV Tuyen Quang 2 floating power line - branching off Tuyen Quang Hydropower Plant - Yen Son	
	Vinh Long Province	**50**				
1	Vinh Long 1 Solar Power Plant	50	2026-2035		110kV double circuit line of Vinh Thanh power plant connected to 110kV Binh Minh - Cau Ke line	

	Yen Bai Province	**1630**				
1	Yen Binh Solar power plant	500	2025-2030		- For Cam An Cluster: Construct 22/220kV booster transformer with capacity of 3x63MVA. Construct 220kV double-circuit transmission line from Yen Binh Solar power plant to transfer 1 circuit of 220kV transmission line to Bao Thang - Yen Bai; - For Phuc An cluster: Construction of 22/220kV substation with capacity of 7x63 MVA, construction of 220kV double-circuit transmission line from Yen Binh Solar power plant to transfer to 220kV Yen Bai - Tuyen Quang transmission line.	
2	Floating solar power plant in Thac Ba Lake	500	2025-2030		220kV double circuit line connected to 220kV busbar of 220kV Yen Bai station.	
3	My Gia 2 Solar Power Plant	580	2025-2030		Construction of a 220kV double-circuit transmission line from the 220kV step-up station of the Thac Ba floating solar power plant to the 220kV Yen Bai - Tuyen Quang transmission line.	
4	Tan Linh Solar Power Plant	50	2025-2030		Construction of 22/110kV booster substation with capacity of 1x63MVA; Construction of 110kV single circuit transmission line from Tan Linh Solar Power Plant connecting to 110kV feeder of 220kV Luc Yen substation	
	Can Tho City	**50**				
1	Concentrated solar power	50	2025-2030		Connection to medium and low voltage distribution grid	
	Lao Cai Province	**100**				
1	Other concentrated solar power	100	2025-2030		The proposed connection plan is proposed in the next period.	
	Ha Nam Province	**50**				
1	Concentrated solar power in Ha Nam province	50	2025-2030		Connection with 35 kV voltage level	

Table 15: List of biomass power projects with capacity of 50 MW or more and projects with capacity less than 50 MW connected at voltage level of 220 kV or more

No.	Project	Expected capacity (MW)	Operational phase	Note
	Yen Bai Province	**158**		
1	Biomass Power Plant Yen Bai 1	50	2026-2030	Decision 262/QD-TTg. 110kV single circuit line connected to 110kV Van Yen substation
2	Truong Minh Biomass Power Plant	58	2026-2030	Decision 262/QD-TTg. Construction of 220 kV Truong Minh - Yen Bai transmission line
3	Luc Yen Biomass Power Plant	50	32MW Phase 2025-2030; 18 MW Phase 2031-2035	Relay connection on 110 kV Luc Yen - Bao Thang line
	Bac Kan Province	**50**		
1	Bac Kan 1 Biomass Power Plant	50	2026-2030	Decision 1682/QD-TTg (35 MW), capacity adjustment. 110 kV double circuit transmission line, Bac Kan 1 Biomass Power Plant - Bac Kan branch - Phu Luong
	Lao Cai Province	**50**		
1	Bao Thang Biomass Power Plant	50	2026-2030	Decision 1682/QD-TTg (30 MW), capacity adjustment. Construction of 110 kV transmission line connecting to the 110 kV line of Lao Cai Iron and Steel Substation - Bao Thang 220 kV Substation
	Tuyen Quang Province	**100**		
1	Tuyen Quang Biomass Power Plant	50	2023-2030	Decision 262/QD-TTg
2	Tuyen Quang Biomass Power Plant (Phase 2)	50	32 MW Phase 2025-2030, 18 MW Phase 2031-2035	Ham Yen - Tan Quang Cement 110 kV double circuit line
	Phu Tho Province	**50**		
1	Biomass Power Plant Phu Tho	50	20 MW Phase 2025-2030, 30 MW Phase 2031-2035	Relay connection on 110 kV Pho Vang - Tan Son line
	An Giang Province	**104**		
1	Biomass Power Plant An Giang 1	50	2026-2030	Decision 1682/QD-TTg. Construction of 110 kV double circuit transmission line connected to 110 kV Tri Ton substation
2	Biomass Power Plant An Giang 2 phase 2	54	2031-2035	110 kV transmission line of An Giang 2 - Cai Dau Biomass Power Plant
	Dien Bien Province	**55**		
1	Muong Nhe Biomass Power Plant (Nam Ke - 30 MW and Chung Chai - 25 MW)	55	2025-2030	110 kV double circuit transmission line MSS Chung Chai biomass power plant - 220 kV Nam Po substation
	Hoa Binh Province	**100**		
1	Hoa Binh Biomass Power Plant	100	75 MW Phase 2025-2030; 25 MW Phase 2031-2035	Decision 1682/QD-TTg (30 MW), adjusting capacity to 75 MW Phase 2025-2030, Construction of 110 kV double-circuit transmission line Hoa Binh - Xuan Thien
	Phu Yen Province	**50**		
1	Thuan Phat Biomass Power Project	50	2025-2030	110 kV line connected to 110 kV Song Hinh - Tuy Hoa line
	Quang Binh Province	**172**		

1	Quang Binh Biomass Power Plant	50	2025-2030	Decision 1682/QD-TTg (10 MW), adjusted to increase by 40 MW. 110 kV single circuit line connected to 110 kV Tay Bac Quan Hau substation
2	PIR-1 Biomass Plant Quang Binh	50	2025-2030	Transition connection on 110 kV Ang Son - Vinh Linh line
3	An Viet Phat Quang Binh Biomass Power Plant Phase 1	58	2025-2030	Connecting the 220 kV substation bay of Ba Don town
4	An Viet Phat Quang Binh Biomass Power Plant Phase 2	14	2031-2035	Connecting the 220 kV substation bay of Ba Don town
	Quang Nam Province	**100**		
1	Biomass Power Project Tien Phuoc	50	2031-2035	110 kV line connected to the regional grid
2	Biomass Power Project Quang Nam	50	2031-2035	110 kV line connected to the regional grid
	Quang Ngai Province	**50**		
1	Tu Nghia Biomass Power	50	7MW Phase 2025-2030; 43 MW Phase 2031-2035	Connected by 110 kV line to 110 kV Quang Phu substation
	Thanh Hoa Province	**110**		
1	Thanh Hoa Biomass Electricity 1	50	2025-2030	Transition connection to 110 kV Ngoc Lac - Thieu Yen line
2	Thanh Hoa Biomass Electricity 2	60	2025-2030	Transition connection on circuit 2 of 110 kV Thieu Yen - Ba Thuoc line
	Binh Dinh Province	**50**		
1	Binh Dinh Biomass Power Plant	50	2025-2030	110 kV Line of Binh Dinh - Phu Cat Biomass Power Plant
	Dak Lak Province	**120**		
1	Dak Lak Biomass Power Plant	120	2025-2030	220kV single circuit transmission line from Dak Lak - Krong Ana biomass power plant, substation upgraded to match power plant capacity
	Gia Lai Province	**106**		
1	Increasing the capacity of An Khe Biomass Power Plant (expansion)	40	2025-2030	Existing capacity is 95 MW, expand by 40 MW. 220 kV line connected to the existing 220 kV transformer of An Khe biomass power plant. Replace 63 MVA transformer with 115 MVA transformer.
2	Gao Commune Biomass Power Plant Cluster (3 factories)	66	2031-2035	Transition connection on 110 kV Dien Hong - Chu Se line
	Can Tho City	**150**		
1	Can Tho Biomass Power Plant	150	2025-2035	110 kV Long Xuyen 2 - Vinh Thanh Line
	Long An Province	**75**		
1	Long An Biomass Power Plant	75	33 MW Phase 2025-2030; 42 MW Phase 2031-2035	Decision 1682/QD-TTg (13 MW). Transitional connection on 110 kV line of GAIA - Long An 2 solar power plant
	Binh Phuoc Province	**50**		
1	Binh Duong Biomass Power Plant Blessing	50	2025-2030	Connect to Binh Long 110 kV substation
	Total capacity	**1,700**		

Table 16: List of waste-to-energy projects with capacity of 50 MW or more and projects with capacity of less than 50 MW connected at voltage level of 220 kV or more

No.	Project	Expected capacity (MW)	Operational phase	Note
	Hanoi City	**150**		
1	Soc Son Waste-to-Energy Plant Project	90	2024-2025	Decision 1682/QD-TTg
2	Hanoi environmental improvement and waste-to-energy project	60	2025-2030	110 kV double circuit line connected from the Project's 110 kV substation to the 110 kV TC of the 220 kV Soc Son substation
	Ho Chi Minh City	**260**		
1	Waste to Energy Plant Project Vietnam Waste Solutions Company Limited (VWS)	60	2025-2030	Transition connection to 110 kV line, 220 kV Binh Chanh station - 110 kV Da Phuoc DEPOT station
2	Tam Sinh Nghia Investment Joint Stock Company's waste-to-energy plant phase 1 (adjusted capacity from 40 MW to 60 MW)	60	2025-2030	110 kV double circuit line from Tam Sinh Nghia waste-to-energy incineration plant connected to T38E column of 110 kV line branch project connecting to Phuoc Hiep 110 kV substation
3	Waste-to-energy plant phase 2 of Tam Sinh Nghia Investment Joint Stock Company	140	2025-2030	110 kV double circuit line from Tam Sinh Nghia waste-to-energy incineration plant connected to T38E column of 110 kV line branch project connecting to Phuoc Hiep 110 kV substation
	Total capacity	**410**		

Table 17: List of offshore wind power projects to 2030

No.	Development area of the offshore wind project	Planned Capacity (MW) *	Expected combination	
			Project name	Capacity (MW)
1	Northern Region 1	1500	Northern Region 1.1	500
			Northern Region 1.2	500
			Northern Region 1.3	500
2	Northern Region 2	500	Northern Region 2	500
3	Northern Region 3	500	Northern Region 3	500
4	Southern Central Region 1	1500	Southern Central Region 1.1	500
			Southern Central Region 1.2	500
			Southern Central Region 1.3	500
5	Southern Central Region 2	500	Southern Central Region 2	500
6	Southern Region 1	500	Southern Region 1	500
7	Southern Region 2	500	Southern Region 2	500
8	Southern Region 3 (*)	500	Southern Region 3	500

Note:

- Projects need solutions to ensure operational progress according to approved plans. Determining the location coordinates of offshore wind power projects complies with legal regulations and is determined at the project preparation stage, ensuring no overlap with other plans.

(*) Project to transfer from the middle of Central region to the South.

Table 18: List of offshore wind power projects to 2035 (MW)

No.	Offshore wind projects development area	Expected capacity (MW)	Expected combination		Expected Power Gathering Point	Operational phase
			Component project name	Capacity (MW)		
I	**North region**	**11200**				
1	Northern 1	2200	Northern 1.1 (*)	500	BB Station 1	2025-2030
			Northern 1.2 (*)	500	BB Station 1	2025-2030
			Northern 1.3 (*)	500	BB Station 1	2025-2030
			Northern 1.4	700	BB Station 1	2031-2035
2	Northern 2	1000	Northern 2.1 (*)	500	BB Station 1	2025-2030
			Northern 2.2	500	BB Station 1	2031-2035
3	Northern 3	1000	Northern 3.1 (*)	500	BB Station 3	2025-2030
			Northern 3.2	500	BB Station 3	2031-2035
4	Northern 4	1000	Northern 4	1000	BB Station 2	2031-2035
5	Northern 5	1000	Northern 5	1000	BB Station 2	2031-2035
6	Northern 6	1000	Northern 6	1000	BB Station 2	2031-2035
7	Northern 7	1000	Northern 7	1000	BB Station 2	2031-2035
8	Northern 8	1000	Northern 8	1000	BB Station 3	2031-2035
9	Northern 9	1000	Northern 9	1000	BB Station 4	2031-2035
10	Northern 10	1000	Northern 10	1000	BB Station 4	2031-2035
II	**South Central Coast Region**	**4300**				
1	South Central Coast 1	2000	South Central Coast 1-1 (*)	500	NTB1 Station	2025-2030
			South Central Coast 1.2 (*)	500	NTB1 Station	2025-2030
			South Central Coast 1.3 (*)	500	NTB1 Station	2025-2030
			South Central Coast 1.4	500	NTB1 Station	2031-2035
2	South Central Coast 2	1000	South Central Coast 2.1 (*)	500	NTB2 Station	2025-2030
			South Central Coast 2.2	500	NTB2 Station	2031-2035
3	South Central Coast 3	1300	South Central Coast 3	1300	NTB3 Station	2031-2035
III	**Southern Vietnam**	**1500**				
1	Southern 1	500	Southern 1 (*)	500	NB1 Station	2025-2030
2	Southern 2	500	Southern 2 (*)	500	NB2 Station	2025-2030
3	Southern 3	500	Southern 3 (*)	500	NB3 Station	2025-2030
	Total	**17000**				

Note:

- Determining the location coordinates of the offshore wind power projects complies with legal regulations and is determined at the project preparation stage, ensuring no overlap with other plans.

(*) Projects with identified phases up to 2030 are shown in Table 18.

Table 19: Expected list of flexible thermal power projects

No.	**Project**	**Expected capacity (MW)**	**Province/City**	**Operational phase**	**Note**
1	Ninh Binh Flexible Power Plant	300	Ninh Binh	2025 - 2030	Decision 1682/QD-TTg
2	Ninh Binh 2 Flexible power plant	1200	Ninh Binh	2025 - 2030	
3	Hai Duong Flexible Power Plant	1200	Hai Duong	2025 - 2035	
4	Flexible thermal power added (*)	About 6,530		2025 - 2035	

Note:

(*) The expected list of additional flexible thermal power projects will be clarified according to the provisions of law.

- Fuel used for flexible thermal power projects will be determined precisely during the project preparation phase.

Table 20: Potential projects for electricity export

No.	Project	Expected capacity (MW)	Source Type	Note
1	Export projects of offshore wind power	8,000-10,000	Offshore Wind Power	Based on proposals from Singapore, Malaysia and other countries
2	TGS Duyen Hai offshore wind power area	2,000	Offshore Wind Power	Tra Vinh province proposed
3	Electricity export of Ca Mau province	2,000-5,000	Sources from renewable energy	Ca Mau Province
4	Bac Lieu 5 Wind Power Plant Project	10,000	Offshore wind power export	Bac Lieu province proposed

Note:

Electricity export projects are allowed to be developed on the basis of ensuring energy security, national defense security and economic and technical conditions.

Appendix III.2
LIST OF RENOVATION AND NEW CONSTRUCTION OF TRANSMISSION GRIDS INVESTMENT PRIORITIES TO 2030 AND ORIENTATION TO 2035

Table 1: List of UHVDC projects in the period 2031-2035

No.	Project name	Scale (km/MW)	Note
I	**Phase 2026-2030**		
1	AC/DC/AC Converter Station (Back-To- Back) 500kV Lao Cai	3000 MW	Serving the connection of electricity import from China, implemented when the competent authority approves the policy of importing electricity from China via Lao Cai, if the Back-to-Back conversion station is built in Vietnam territory.
II	**Phase 2031-2035**		
1	Bipole HVDC one-way Line from Central 1 - North 1	2x700km	The length, cross-section of conductors and the direction of the line will be determined precisely during the project implementation phase in case of high power development in the Vung Ang, Quang Binh and Quang Tri areas. Consider the option of utilizing the old 500kV Quang Tri - Vung Ang - Nho Quan line route.
2	Converter station middle of Central 1	5000-10000 MW	The scale and location of the station will be determined during the project implementation phase. Consideration is given to placing it in Quang Binh and Quang Tri areas.
3	Northern Converter Station 1	5000-10000 MW	The scale and location of the station will be determined during the project implementation phase. Consideration is given to locations in Ha Nam, Nam Dinh, Thai Binh, Hai Duong, and Bac Giang provinces.
4	Bipole HVDC One-way Line from middle of Central 2 - North 2	2x1050km	The length, cross-section of conductors and line direction will be determined precisely during the project implementation phase.
5	Central converter station Central 2	5000-10000 MW	The scale and location of the station will be determined during the project implementation phase. Consideration is given to locating in Quang Ngai area.
6	Northern Converter Station 2	5000-10000 MW	The scale and location of the station will be determined during the project implementation phase. Consideration is given to placing it in the western districts of Hanoi.
7	Bipole HVDC One -way Line from South Central - North 3	2x1550km	The length, cross-section of conductors and the direction of the line will be determined precisely during the project implementation phase. Contingency for further development of the South Central Power Source.
8	South Central converter station	4000-10000 MW	The scale and location of the station will be determined during the project implementation phase. Consideration is given to placing it in Ninh Thuan province.
9	Northern Converter Station 3	4000-10000 MW	The scale and location of the station will be determined during the project implementation phase. Consideration is given to locating in Hung Yen province.
	Line from Ba Ria - Vung Tau to Hai Phong	2x1700km	The length, cross-section of conductors and line direction will be determined precisely during the project implementation phase in case of high power development in the Southern region.

Note:

Inter-regional HVDC transmission systems with large transmission distances (including HVDC lines and AC-DC, DC-AC converter stations) have very high investment costs. It is necessary to carefully study and evaluate the overall implementation of these systems based on the progress of power source projects (including baseload power sources and renewable energy sources), linked to market signals and policy mechanisms.

Table 2: Orientation of UHVAC lines and transformer stations 765 ÷1 000 Kv period 2031-2035

No.	Project name	Scale (km/MVA)	Note
I	**Phase 2031-2035**		
1	765-1000 kV South Central 1 - Southern 1 Line	600km	In case the South Central power source development is higher than expected, consider the option of releasing nuclear power capacity and increasing the transmission capacity connecting South Central - South by using the 765-1000 kV ultra-high voltage AC grid instead of the 500 kV transmission option. The scale, progress and direction of the transmission line will be determined precisely during the project implementation phase.
2	765-1000 kV South Central 2 - Southern 2 Line	600km	In case the South Central power source development is higher than expected, consider the option of releasing nuclear power capacity and increasing the transmission capacity connecting South Central - South by using the 765 ÷ 1000 kV ultra-high voltage AC grid instead of the 500 kV transmission option. The scale, progress and direction of the transmission line will be determined precisely during the project implementation phase.
3	765-1000 kV South Central 1 Substation	4000 MVA	New construction, in case of high development of South Central power source, synchronize the 765 ÷ 1000 kV South Central 1 - South 1 transmission line. Progress, scale and station location will be determined precisely during the project implementation phase.
4	765-1000 kV South Central 2 Substation	4000 MVA	New construction, in case of high development of South Central power source, synchronize the 765 ÷ 1000 kV South Central 2 - South 2 transmission line. Progress, scale and station location will be determined precisely during the project implementation phase.
5	765-1000 kV Southern 1 Substation	4000 MVA	New construction, in case of high development of South Central power source, synchronize the 765-1000 kV South Central 1 - South 1 transmission line. Progress, scale and station location will be determined precisely during the project implementation phase.
6	765-1000 kV Southern 2 Substation	4000 MVA	New construction, in case of high development of South Central power source, synchronize the 765-1000 kV South Central 2 - South 2 transmission line. Progress, scale and station location will be determined precisely during the project implementation phase.

Note:

The appearance of the 765-1000 kV UHVAC ultra-high voltage transmission system connecting the South Central Coast - the South in the table above is associated with the scale of power source development in the South Central Coast (Ninh Thuan 3,4 nuclear power plants, solar power, onshore wind power, offshore wind power), requiring further studies on the feasibility and overall economic and technical efficiency.

Table 3: List of newly built and renovated 500 kV transformer stations in the Northern region

No.	Substation name	Capacity (MVA)	Note
I	**Phase 2025-2030**		
1	West Hanoi	1800	Renovation and capacity improvement
2	Son Tay	1800	New construction
3	South Hanoi	1800	New construction
4	Dan Phuong	1800	New construction, consideration of connection to Dan Phuong 220kV station
5	Hai Phong	1800	New construction
6	Hai Phong 2	1800	New construction
7	BB 1 (*)	2700	New construction, synchronized offshore wind power source
8	Gia Loc	900	New construction
9	Pho Noi	1800	Renovation and capacity improvement
10	Hung Yen 1	1800	New construction, renaming from 500 kV Long Bien substation in Power Plan VIII
11	Hung Yen 2	900	New construction
12	Nam Dinh	1800	New construction, the names in the list of 500kV, 220kV lines are Nam Dinh Thermal Power Plant, Nam Dinh 1 Thermal Power Plant
13	Thai Binh	1200	New construction
14	Hoa Binh 2 Cutting Station	Cutting station	Build new cutting station
15	Lao Cai	2700	New construction
16	Lang Son	1800	New construction
17	Yen Bai (*)	1800	New construction
18	Thai Nguyen	1800	New construction
19	Viet Tri	1800	Renovation and capacity improvement
20	Vinh Yen	1800	New construction
21	Bac Giang	900	New construction
22	Yen The	900	New construction
23	Bac Ninh	1800	New construction
24	Bac Ninh 2	1800	New construction
25	Quang Ninh	1,800	New construction
26	Lai Chau	1800	Renovation and capacity improvement
27	Than Uyen	2700	New construction
28	Dien Bien	2700	New construction
29	Son La 1 (*)	1800	New construction
30	Son La 2 (*)	1800	New construction
31	Hoa Binh	1800	Renovation and capacity improvement
32	Nghi Son	1800	Renovation and capacity improvement
33	Thanh Hoa	1800	Renovation and capacity improvement
34	Nam Cam		Build new switching station to serve electricity import connection from Laos
35	Quynh Luu	1800	New construction
36	Ha Tinh 2	2700	New construction
37	Provision for new construction and renovation of substations to increase capacity	4500	New construction and renovation, capacity expansion
38	Projects to improve the ability to control and operate power stations and power systems		Including but not limited to projects: Replacing, installing electric resistors, capacitors, SVC, SVG, FACTS devices, BESS, synchronous compensators...; expanding transformer station bays, renovating, completing transformer station diagrams in a flexible direction;

			installing short-circuit current limiting devices, replacing and upgrading devices to ensure synchronous short-circuit current capacity, setting up automatic circuits; replacing devices to ensure synchronous load capacity of lines and transformers; installing, replacing devices, control systems, SCADA/EMS systems, SCADA/DMS, station automation,...
II	**Phase 2031-2035**		
1	Thuong Tin	2700	Renovation and capacity improvement
2	Dong Anh	2700	Renovation and capacity improvement
3	West Hanoi	2700	Renovation and capacity improvement
4	South Hanoi	2700	Renovation and capacity improvement
5	Dan Phuong	2700	Renovation and capacity improvement
6	Van Tri	1800	New construction
7	Hai Phong 2	2700	Renovation and capacity improvement
8	BB 1 (*)	3600	Renovation and capacity improvement
9	BB 2 (*)	3600	New construction, synchronized power source
10	Gia Loc	1800	Renovation and capacity improvement
11	Hung Yen 1	2700	Renovation and capacity improvement
12	Hung Yen 2	1800	Renovation and capacity improvement
13	Ha Nam	1800	New construction
14	Nam Dinh	2700	Renovation, capacity increase, names in the list of 500kV, 220kV lines are Nam Dinh Thermal Power Plant, Nam Dinh 1 Thermal Power Plant
15	Nam Dinh 2	900	New construction
16	Nam Dinh 3	1800	New construction, synchronized with the load of Ninh Co Economic zone (according to the proposal of Nam Dinh Provincial People's Committee in Document No. 06/UBND-VP5 dated January 3, 2025) and in case of developing specialized load when 220 kV substation cannot ensure power supply. Consider scale up to 3,600 MVA when load demand develops strongly; consider connecting offshore wind power self-produced and self-consumed LNG sources to supply power to this load.
17	Thai Binh	1800	Renovation and capacity improvement
18	BB 4 (*)	2700	New construction, synchronized power source
19	Lang Son 2 (*)	1800	New construction
20	Ha Giang	1800	New construction
21	Thai Nguyen 2	900	New construction
22	Phu Tho	1800	New construction
23	Vinh Tuong	1800	New construction
24	Bac Giang	1800	Renovation and capacity improvement
25	Yen The	1800	Renovation and capacity improvement
26	Bac Ninh	2700	Renovation and capacity improvement
27	Bac Ninh 2	2700	Renovation and capacity improvement
28	Bac Ninh 3	1800	New construction
29	BB 3 (*)	2700	New construction, synchronized power source.
30	Hai Ha	900	New construction

31	Quang Ninh 2	1800	Renovation and capacity improvement
32	NLTT Lai Chau 1 (*)	1800	New construction
33	Son La	2700	Renovation and capacity improvement
34	Thanh Hoa	2700	Renovation and capacity improvement
35	Tinh Gia	1800	New construction
36	Nam Cam	900	Install additional transformer at the switching station to supply power to local loads (if necessary), consider connecting to the 220kV Nam Cam station (if necessary)
37	Ha Tinh	1800	Renovation and capacity improvement
38	Provision for new construction and renovation of substations to increase capacity	2700	New construction and renovation, capacity expansion
39	Projects to improve the ability to control and operate power stations and power systems		Including but not limited to projects: Replacing, installing electric resistors, capacitors, SVC, SVG, FACTS devices, BESS, synchronous compensators...; expanding transformer station bays, renovating, completing transformer station diagrams in a flexible direction; installing short-circuit current limiting devices, replacing and upgrading devices to ensure synchronous short-circuit current capacity, setting up automatic circuits; replacing devices to ensure synchronous load capacity of lines and transformers; installing, replacing devices, control systems, SCADA/EMS systems, SCADA/DMS, station automation,...

Table 4: List of newly built and renovated 500 kV lines in the Northern region

No.	Line name	Number of circuits	X	km	Note
I	**Phase 2025-2030**				
1	Circuit 2 Nho Quan - Thuong Tin	1	x	75	Convert one circuit into two circuits
2	Dan Phuong - Tay Hanoi - Vinh Yen	4	x	5	Connection to 500 kV Dan Phuong Substation
3	Hung Yen 1 - Pho Noi - Thuong Tin	2	x	8	Connecting to 500 kV Hung Yen 1 substation, replacing the 500 kV Long Bien Pho Noi - Thuong Tin line in Power Planning VIII
4	Hung Yen 2 - Hung Yen 1	2	x	35	Connecting of 500kV Hung Yen 2 Substation
5	South Hanoi - Nho Quan - Thuong Tin	2	x	5	Connecting to 500 kV South Hanoi Substation
6	Son Tay - Dan Phuong	2	x	20	Connecting to 500 kV Son Tay Substation
7	West Hanoi - Vinh Yen	2	x	70	New construction
8	Busbar 1 - Hai Phong (*)	2	x	25	New construction, synchronized with the scale and progress of the offshore wind power source in the North. The detailed plan and volume will be accurate during the project implementation phase, depending on the results of the actual sea survey.
9	Hai Phong - Thai Binh	2	x	38	Connection to 500 kV Hai Phong Substation
10	Quang Ninh 2 - Quang Ninh - Pho Noi and Thang Long Thermal Power Plant - Pho Noi	4	x	5	New construction
11	Hai Phong - Hai Phong 2	2	x	20	New construction
12	Busbar 1 - Quang Ninh 2 (*)	2	x	60	New construction, synchronized with the scale and progress of the offshore wind power source in the North. The detailed plan and volume will be accurate during the project implementation phase, depending on the results of the actual sea survey.
13	Gia Loc - Thai Binh - Pho Noi	4	x	13	Connecting to Gia Loc 500 kV Substation
14	Thai Binh - Nam Dinh 1 Thermal Power Plant - Pho Noi	4	x	1	Connecting to 500 kV Thai Binh Substation
15	Nam Dinh – Thanh Hoa - Pho Noi	4	x	1	New construction, connection, completion of Nam Dinh 500kV substation diagram.
16	Sam Nuea - Hoa Binh 2 switching Station	2	x	110	New construction
17	Hoa Binh 2 Switching Station - Hoa Binh - Nho Quan and Son La - Nho Quan	4	x	5	New construction
18	Hoa Binh 2 Switching Station - West Hanoi	2	x	80	New construction
19	Vietnam - China Border - Lao Cai	2	x	65	Buy electricity from China
20	Lao Cai - Vinh Yen	2	x	210	Connecting to 500 kV Lao Cai substation, Releasing small hydropower plants and making provision to buy electricity from

					China
21	Lang Son - Bac Giang (*)	2	x	120	New construction
22	Lang Son - Yen The (*)	2	x	120	New construction
23	Yen Bai - Thai Nguyen (*)	2	x	100	New construction, in case of high development of renewable energy sources in the Northwest, on the basis of renewable energy sources allocated to localities according to Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
24	Yen Bai - Lao Cai - Vinh Yen (*)	4	x	20	New construction, in case of high development of renewable energy sources in the Northwest, on the basis of renewable energy sources allocated to localities according to Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
25	Hiep Hoa - Thai Nguyen	2	x	29	Connecting to 500 kV Thai Nguyen Substation
26	Yen The - Thai Nguyen	2	x	70	New construction
27	Vinh Yen - Son La - Hiep Hoa and Viet Tri - Hiep Hoa	4	x	5	Connecting to 500 kV Vinh Yen Substation
28	Bac Giang - Bac Ninh	2	x	40	New construction
29	Bac Giang - Quang Ninh - Hiep Hoa	4	x	5	Connecting to 500 kV Bac Giang Substation
30	Bac Ninh - Dong Anh - Pho Noi	2	x	1	Connecting to 500 kV Bac Ninh Substation
31	Bac Ninh 2 - Bac Giang - Hiep Hoa	4	x	10	Connecting of 500 kV Bac Ninh 2 substation
32	LNG Quang Ninh - Quang Ninh	2	x	30	New construction, synchronized power source. Replace the 500 kV LNG Quang Ninh I - Quang Ninh line in Power Plan VIII. In case the 500 kV Quang Ninh substation cannot expand the feeder, carry out a transition connection to the 500 kV Quang Ninh - Hiep Hoa line.
33	Lai Chau - Than Uyen	2	x	75	New construction
34	Than Uyen - Yen Bai (*)	2	x	170	New construction, in case of high development of renewable energy sources in the Northwest, on the basis of renewable energy sources allocated to localities according to Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
35	Dien Bien - Lai Chau (*)	2	x	50	New construction
36	Son La 1 - Son La - Hoa Binh and Son La - Nho Quan (*)	2	x	150	New construction, in case of high development of renewable energy sources in the Northwest, on the basis of renewable energy sources allocated to localities according to Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
37	Son La 1 - Son Tay (*)	2	x	150	New construction, in case of high development of renewable energy sources in the Northwest, on the basis of renewable energy sources allocated to localities according to Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.

38	Son La 2 - Son La 1 (*)	2	x	50	New construction, in case of high development of renewable energy sources in the Northwest, on the basis of renewable energy sources allocated to localities according to Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
39	Hoa Binh Hydropower Expansion - Hoa Binh - Nho Quan	2	x	1	Synchronous Hoa Binh Hydropower Expansion
40	Quynh Luu - Quang Trach - Thanh Hoa	4	x	5	New construction
41	LNG Nghi Son - LNG Quynh Lap	2	x	10	New construction, in case of LNG Nghi Son, LNG Quynh Lap is behind schedule, invest first in Quynh Luu - Hung Yen 1 line
42	LNG Nghi Son - Hung Yen 2	2	x	190	New construction, in case of LNG Nghi Son, LNG Quynh Lap is behind schedule, invest first in Quynh Luu - Hung Yen 2 line
43	LNG Quynh Lap - Quynh Luu	2	x	15	New construction, in case of LNG Nghi Son, LNG Quynh Lap is behind schedule, invest first in Quynh Luu - Hung Yen 2 line
44	Connection to North Central Pumped Storage Hydropower	2	x	50	New construction, source synchronization
45	LNG Quang Trach II - Quang Trach	2	x	1	New construction, synchronized power source
46	Nam Cam Switching Station - Vung Ang - Nho Quan	4	x	12	New construction, serving the connection of imported power source to Laos. Transition on 02 existing 500 kV Vung Ang - Nho Quan line circuits (circuits 1,2)
47	Vung Ang - Hoa Binh 2 Switching Station	2	x	380	New construction, using large cross-section phase wires, switching the connection of the 500kV Vung Ang - Da Nang - Ha Tinh line (circuits 3,4), combined with replacing the superheat wire in this section.
48	Vung Ang - Ha Tinh - Da Nang (circuit 3,4)	2	x	16	Transition to 500 kV Ha Tinh - Da Nang line circuit 2
49	Ha Tinh 2 - Vung Ang - Ha Tinh (*)	4	x	5	New construction
50	Phila wind power – Nam Cam 500 kV Switching Station	2	x	35	Proposed plan in the document of the Provincial People's Committee, serving the import of Lao electronics
51	Cha Lo wind power - 500 kV Ha Tinh Substation	2	x	50	Proposed plan in the document of the Provincial People's Committee, serving the import of electricity from Laos
52	Connection of AC/DC/AC Converter Station (Back-To-Back) 500kV Lao Cai	4	x	2	Serving the connection of electricity import from China, implemented when the competent authority approves the policy of importing electricity from China via Lao Cai, if the Back-to-Back conversion station is built in Vietnam territory.
53	Provision for connecting power sources in Boulikhamxay and Khammouane provinces, Laos			600	New construction
54	Provision for the construction and renovation of 500 kV lines			200	New construction and renovation

II	**Phase 2031-2035**				
1	Connecting HVDC converter station Bac Bo 1 (*)			120	New construction, length, cross-section of conductors and route orientation The line will be standardized during the project implementation phase.
2	Connecting HVDC converter station Bac Bo 2 (*)			120	For new construction, the length, cross-section of conductors and line direction will be determined precisely during the project implementation phase.
3	Connecting HVDC converter station Bac Bo 3 (*)			120	New construction, length, cross-section of conductors and line direction will be precisely determined during project implementation phase.
4	Van Tri - Vinh Yen	2	x	40	New construction
5	Busbar 2 - Busbar 1 - Hai Phong 2 (*)	4	x	5	New construction, synchronized with the scale and progress of the offshore wind power source in the North. The detailed plan and volume will be accurate during the project implementation phase, depending on the results of the actual sea survey.
6	Ha Nam - Thai Binh	2	x	20	New construction
7	Nam Dinh 2 - Nghi Son LNG - Hung Yen 2	4	x	5	New construction
8	Nam Dinh - Nam Dinh 3	2	x	18	New construction, synchronized with 500 kV Nam Dinh 3 substation
9	Busbar 4 - Bac Giang (*)	2	x	135	New construction, synchronized with the scale and progress of the offshore wind power source in the North. The detailed plan and volume will be accurate during the project implementation phase, depending on the results of the actual sea survey.
10	Ha Giang - Yen Bai - Thai Nguyen	2	x	180	New construction
11	Lang Son 2 500 kV - Lang Son - Yen The	4	x	10	New construction
12	Thai Nguyen 2 - Thai Nguyen - Yen The	2	x	20	New construction
13	Phu Tho - Turn Son La - Viet Tri	4	x	20	New construction
14	Son Tay - Vinh Tuong	2	x	20	New construction
15	Bac Ninh 3 - Hung Yen 1 - Pho Noi	4	x	10	New construction
16	Busbar 3 - Lang Son (*)	2	x	140	New construction, synchronized with the scale and progress of the offshore wind power source in the North. The detailed plan and volume will be accurate during the project implementation phase, depending on the results of the actual sea survey.
17	Hai Ha - Busbar 3 - Lang Son	2	x	5	New construction, synchronized with the scale and progress of the offshore wind power source in the North. The detailed plan and volume will be accurate during the project implementation phase, depending on the results of the actual sea survey.
18	Renewable Energy Lai Chau 1 - Turn to Lai Chau - Than Uyen (*)	4	x	20	New construction
19	LNG Cong Thanh - Nghi Son - Nho Quan	2	x	20	New construction, synchronized power source. Specific connection plan is accurate

					during project implementation phase.
20	LNG Thai Binh Phase 2 - Thai Binh	2	x	50	New construction, synchronized power source. Specific connection plan is accurate during project implementation phase.
21	LNG Vung Ang III - Vung Ang - Quang Trach	2	x	20	New construction, synchronized power source. Specific connection plan is accurate during project implementation phase.
22	LNG Thanh Hoa - LNG Cong Thanh	2	x	5	New construction, synchronized power source. Specific connection plan is accurate during project implementation phase.
23	LNG Cong Thanh - Bac Ninh 3	2	x	220	New construction, synchronized power source. Specific connection plan is accurate in project implementation phase. Consider using four-circuit poles, maximizing route direction with LNG Nghi Son - Hung Yen 1.
24	Connecting to Bac Bo 1 Pumped Storage Hydropower (*)	4	x	20	New construction, synchronized power source
25	Dong Phu Yen Pumped Storage Hydropower - Son La - Viet Tri and Son La - Vinh Yen	4	x	20	New construction, synchronized power source
26	Bac Bo 1 Pumped Storage Hydropower - Son La 1 - Son Tay (*)	4	x	20	New construction, synchronized power source
27	Tinh Gia - LNG Nghi Son - Hung Yen 2	4	x	4	New construction
28	LNG Hai Phong - Hai Phong 500 kV Substation (or Gia Loc 500 kV Substation)	2	x	45	Synchronizing Hai Phong LNG Thermal Power Plant Phase I
29	LNG Quang Trach III - Quang Trach	2	x	1	New construction, synchronized power source
30	Quang Tri - Vung Ang renovation (circuit 2)	2	x	200	New construction, contingency plan in case of deploying HVDC middle of Central 1 - North 1, utilizing the existing 500 kV Quang Tri - Vung Ang line
31	Son La Hydropower Expansion - Son La Hydropower - Lai Chau	1	x	5	New construction, synchronized power source. Proposed plan in EVN's Document No. 862/EVN-KH dated February 11, 2025. Specific connection plan is accurate during project implementation phase.
32	Lai Chau Hydropower Expansion - Lai Chau Hydropower - Lai Chau	2	x	1	New construction, synchronized power source. Proposed plan in EVN's Document No. 862/EVN-KH dated February 11, 2025. Specific connection plan is accurate during project implementation phase.
33	Renovation Vung Ang - Nho Quan (circuit 1)	2	x	360	Renovation of existing 500 kV line into 02 circuits
34	Provision for the construction and renovation of 500 kV lines	3	x	40	New construction and renovation

and renovated 220 kV transformer stations in the Northern region

No.	Project name	Capacity (MVA)	Note
I	**Phase 2025-2030**		
1	Van Tri	750	Renovation and capacity improvement
2	West Hanoi	750	Renovation and capacity improvement
3	Soc Son 2	250	New construction
4	Van Dien	500	New construction
5	Long Bien 2	500	New construction
6	Me Linh	500	New construction
7	Chuong My	250	New construction
8	Ung Hoa	500	New construction
9	Dai Mo	750	New construction
10	Hoa Lac	500	New construction
11	Cau Giay	250	New construction
12	Hai Ba Trung	250	New construction
13	Thanh Xuan	750	New construction
14	Dan Phuong	500	New construction
15	Phu Xuyen	250	New construction
16	Hoa Lac 2	500	New construction
17	Hanoi 2 Renewable energy (*)	500	New construction
18	Vat Cach	500	Renovation and capacity improvement
19	Hai Phong thermal power	500	Renovation and capacity improvement
20	Do Son	250	New construction
21	An Lao	500	New construction
22	Dai Ban	250	New construction
23	Duong Kinh	500	New construction
24	Tien Lang	500	New construction
25	Cat Hai	500	New construction
26	Pha Lai thermal power	750	Renovation and capacity improvement
27	Gia Loc	500	New construction
28	Tu Ky	250	New construction
29	Hai Duong	500	Renovation and capacity improvement
30	Tan Viet	500	New construction
31	Thanh Ha	250	New construction
32	Nhi Chieu	250	New construction
33	Nam Sach	250	New construction
34	Thanh Mien	250	New construction
35	Hung Yen 2 500 kV interconnection	250	New construction
36	Bai Say	500	New construction
37	Van Giang	250	New construction
38	Ly Nhan	500	New construction
39	Dong Van	750	New construction
40	Hai Hau	500	New construction
41	Nam Dinh 2	250	New construction
42	Nghia Hung	500	New construction
43	Nam Dinh 3	750	New construction
44	Giao Thuy	250	New construction
45	Quynh Phu	500	New construction
46	Vu Thu	500	New construction
47	Thai Binh 500 kV interconnection	500	New construction

48	Ninh Binh 2	500	New construction
49	Nho Quan 500 kV interconnection	500	Renovation and capacity improvement
50	Tam Diep	250	New construction
51	Gia Vien	500	New construction, implemented in case of relocation of Ninh Binh 220kV
52	Ha Giang	375	Renovation and capacity improvement
53	Bac Quang	500	Renovation and capacity improvement
54	Cao Bang	500	Renovation and capacity improvement
55	Bac Ha	250	New construction
56	Bat Xat	500	New construction
57	Lao Cai 500 kV interconnection	500	New construction
58	Van Ban	250	New construction
59	Bac Kan 1 (*)	500	New construction
60	Lang Son	500	Renovation and capacity improvement
61	Dong Mo	500	New construction
62	Lang Son 2 (*)	500	New construction
63	Lang Son 1 (*)	500	New construction
64	Tuyen Quang	500	Renovation and capacity improvement
65	Nghia Lo	500	New construction
66	Yen Bai	500	Renovation and capacity improvement
67	Luc Yen	250	New construction
68	Yen Bai 1 (*)	500	New construction
69	Yen Bai 2 (*)	500	New construction
70	Song Cong	500	New construction
71	Phu Binh 2	500	New construction
72	Dai Tu	250	New construction
73	Thai Nguyen 2 Renewable energy	500	New construction
74	Phu Tho 2	500	New construction
75	Viet Tri 500 kV interconnection	500	New construction
76	Phu Tho 3	250	New construction
77	Tam Duong	500	New construction
78	Ba Thien	500	New construction
79	Phuc Yen	250	New construction
80	Chan Hung	250	New construction
81	Bac Giang 500 kV interconnection	500	New construction
82	Lang Giang	250	New construction
83	Yen Dung	500	New construction
84	Hiep Hoa 2	500	New construction
85	Tan Yen	500	New construction
86	Viet Yen	500	New construction
87	Bac Giang 1 (*)	500	New construction
88	Bac Ninh 6	500	New construction
89	Bac Ninh 4	500	New construction
90	Bac Ninh 5	500	New construction
91	Bac Ninh 7	500	New construction
92	Bac Ninh 500 kV interconnection	500	New construction
93	Hoanh Bo	500	Renovation and capacity improvement
94	Cam Pha	500	Renovation and capacity improvement
95	Quang Ninh 500 kV interconnection	500	Renovation and capacity improvement
96	Khe Than	126	New construction
97	Mong Cai	500	New construction
98	Yen Hung	750	Renovation and capacity improvement

99	Hai Ha 2	250	New construction to replace 220 kV Hai Ha Industrial Park Substation
100	Cong Hoa	500	New construction
101	Nam Hoa	500	New construction
102	Quang Ninh 1 (*)	500	New construction
103	Renewable energy Quang Ninh 2 (*)	500	New construction
104	Muong Te	750	Renovation and capacity improvement
105	Pac Ma	500	New construction
106	Phong Tho	500	New construction
107	Sin Ho	250	New construction
108	Than Uyen	750	Renovation and capacity improvement
109	Lai Chau 1 Renewable energy (*)	500	New construction
110	Lai Chau 2 Renewable energy (*)	500	New construction
111	Dien Bien	500	New construction
112	Dien Bien 1 (*)	500	New construction
113	Dien Bien 2 (*)	500	New construction
114	Muong La	500	Renovation and capacity improvement
115	Song Ma	250	New construction
116	Moc Chau	250	New construction
117	Phu Yen	375	New construction
118	Son La 1 (*)	250	New construction
119	Son La 2 (*)	500	New construction
120	Son La 3 (*)	500	New construction
121	Son La 4 (*)	500	New construction
122	Son La 5 (*)	500	New construction
123	Son La 6 (*)	500	New construction
124	Hoa Binh	500	Renovation and capacity improvement
125	Yen Thuy	250	Renovation and capacity improvement
126	Tan Lac	250	New construction
127	Sam Son	500	New construction
128	Tinh Gia	500	New construction
129	Nghi Son Economic Zone	750	Renovation and capacity improvement
130	Nghi Son Refinery Petrochemical	500	New construction
131	Hau Loc	500	New construction
132	Thieu Hoa	250	New construction
133	Thieu Yen	250	New construction
134	Thanh Hoa 1 (*)	500	New construction
135	Dong Vang	500	New construction
136	Nghi Son 2	500	New construction
137	Do Luong	500	Renovation and capacity improvement
138	Nam Cam	500	New construction
139	Quy Hop	250	New construction
140	Tuong Duong	250	Renovation and capacity improvement
141	Ba Thuoc	250	New construction
142	Hoang Mai	500	New construction
143	Hoang Mai 2	250	New construction
144	Quynh Luu 500kV interconnection	500	New construction
145	Nghe An 1 Renewable energy (*)	500	New construction
146	Nghe An 2 Renewable energy (*)	500	New construction
147	Ha Tinh	500	Renovation and capacity improvement
148	Can Loc	250	New construction
149	Vung Ang	500	New construction

150	Vung Tau 2	500	New construction
151	Ha Tinh 1 (*)	500	New construction
152	NLTT Ha Tinh 2 (*)	500	New construction
153	NLTT Ha Tinh 3 (*)	500	New construction
154	NLTT Ha Tinh 4 (*)	500	New construction
155	NLTT Ha Tinh 5 (*)	500	New construction
156	Reserved for new construction and renovation of substations to increase	3750	New construction and renovation, capacity expansion
157	Install short-circuit current limiting resistors including but not limited to busbars of 500 kV Pho Noi, Tay Ha Noi, Hiep Hoa, Dan Phuong, Bac Ninh, Pha Lai and Trang Bach substations.		Limit short circuit current
158	Flexible busbar diagram renovation, 4 busbar sections including but not limited to 500 kV stations Nho Quan, Son La, Dong Anh and stations Van Tri, Vat Cach, Long Bien, Truc Ninh, Thai Binh, Ha Dong, Thanh Nghi, Bac Ninh 2, Thermal power Hai Duong		Limit short circuit current, increase power supply reliability
II	**Phase 2031-2035**		
1	Soc Son 2	750	Renovation and capacity improvement
2	Van Dien	750	Renovation and capacity improvement
3	Long Bien 2	750	Renovation and capacity improvement
4	Xuan Mai	750	Renovation and capacity improvement
5	Chuong My	500	Renovation and capacity improvement
6	Ung Hoa	750	Renovation and capacity improvement
7	Hoa Lac	750	Renovation and capacity improvement
8	Cau Giay	500	Renovation and capacity improvement
9	Hai Ba Trung	750	Renovation and capacity improvement
10	Dan Phuong	750	Renovation and capacity improvement
11	Phu Xuyen	500	Renovation and capacity improvement
12	Dong Anh 2	500	New construction
13	Dong Anh 3	500	New construction

14	Hoa Lac 2	750	Renovation and capacity improvement
15	Phuc Tho	500	New construction
16	Thanh Tri	500	New construction
17	Thanh Oai	500	New construction
18	Van Tri 500 kV interconnection	500	New construction
19	Van Tri 2	500	New construction
20	Dinh Vu	750	Renovation and capacity improvement
21	Do Son	500	Renovation and capacity improvement
22	An Lao	750	Renovation and capacity improvement
23	Thuy Nguyen	750	Renovation and capacity improvement
24	Dai Ban	500	Create, increase capacity
25	Hai Phong 2	250	New construction
26	Dinh Vu 2	500	New construction
27	Gia Loc	750	Renovation and capacity improvement
28	Tu Ky	500	Renovation and capacity improvement
29	Thanh Ha	500	Renovation and capacity improvement
30	Nhi Chieu	500	Renovation and capacity improvement
31	Nam Sach	500	Renovation and capacity improvement
32	Thanh Mien	500	Renovation and capacity improvement
33	Pho Noi	750	Renovation and capacity improvement
34	Pho Cao	750	Renovation and capacity improvement
35	Hung Yen 500 kV interconnection	500	Renovation and capacity improvement
36	Van Giang	500	Renovation and capacity improvement
37	Pho Noi 500 kV interconnection	750	Renovation and capacity improvement
38	Phu Ly	750	Renovation and capacity improvement
39	Thanh Nghi	750	Renovation and capacity improvement
40	Ly Nhan	750	Renovation and capacity improvement
41	Kim Bang	500	New construction
42	Nam Dinh 2	500	Renovation and capacity improvement
43	Giao Thuy	500	Renovation and capacity improvement
44	Nam Dinh 2 500 kV interconnection	500	New construction
45	Thai Binh 500 kV interconnection	750	Renovation and capacity improvement
46	Tien Hai	500	Build invitation
47	Ninh Binh 2	750	Renovation and capacity improvement
48	Tam Diep	500	Renovation and capacity improvement
49	Ha Giang	500	Renovation and capacity improvement
50	Ha Giang 2	250	New construction
51	Quang Uyen	250	New construction
52	Lao Cai 500 kV interconnection	750	Renovation and capacity improvement
53	Van Ban	500	Renovation and capacity improvement
54	Lao Cai 2	250	New construction
55	Lao Cai 3 Renewable Energy (*)	500	New construction
56	Dong Mo	750	Renovation and capacity improvement
57	Tuyen Quang Hydropower	250	Renovation and capacity improvement
58	Son Duong	500	New construction
59	Luc Yen	500	Renovation and capacity improvement
61	Dai Tu	500	Renovation and capacity improvement
62	Phuc Xuan	500	New construction
63	Phu Luong	500	New construction
64	Phu Binh 3	500	New construction
65	Phu Tho 3	500	Renovation and capacity improvement
66	Viet Tri 2	500	New construction

67	Phu Tho 500 kV interconnection	500	New construction
68	Vinh Yen	750	Renovation and capacity improvement
69	Ba Thien	750	Renovation and capacity improvement
70	Phuc Yen	500	Renovation and capacity improvement
71	Chan Hung	500	Renovation and capacity improvement
72	Vinh Tuong 500 kV interconnection	500	New construction
73	Lang Giang	500	Renovation and capacity improvement
74	Yen Dung	750	Renovation and capacity improvement
75	Son Dong	500	Renovation and capacity improvement
76	Tan Yen	750	Renovation and capacity improvement
77	Viet Yen	750	Renovation and capacity improvement
78	Chu	500	New construction
79	Bac Ninh	750	Renovation and capacity improvement
80	Bac Ninh 3	750	Create, increase capacity
81	Bac Ninh 2	750	Renovation and capacity improvement
82	Bac Ninh 6	750	Renovation and capacity improvement
83	Bac Ninh 2 500 kV interconnection	500	Build invitation
84	Bac Ninh 3 500 kV interconnection	500	New construction
85	Bac Ninh 10	750	New construction
86	Bac Ninh 9	750	New construction
87	Quang Ninh 500 kV interconnection	750	Renovation and capacity improvement
88	Hai Ha 2	500	Renovation and capacity improvement
89	Van Don	250	New construction
90	Sin Ho	750	Renovation and capacity improvement
91	Lai Chau 3 Renewable Energy (*)	500	New construction
92	Lai Chau 4 Renewable Energy (*)	500	New construction
93	Song Ma	500	Renovation and capacity improvement
94	Yen Thuy	500	Renovation and capacity improvement
95	Luong Son	250	New construction
96	Hoa Binh 1 (*)	250	New construction
97	Thieu Hoa	500	Renovation and capacity improvement
98	Thieu Yen	500	Renovation and capacity improvement
99	Tinh Gia 500 kV interconnection	500	New construction
100	Quy Hop	500	Renovation and capacity improvement
101	Tuong Duong	500	Renovation and capacity improvement
102	Hoang Mai 2	500	Renovation and capacity improvement
103	Hung Nguyen	500	New construction
104	Cua Lo	500	New construction
105	Can Loc	500	Renovation and capacity improvement
106	Loc Ha	250	New construction
107	Provision for new construction and	2750	New construction and renovation,

108	Projects to improve the ability to control and operate power stations and power systems		Including but not limited to projects: Replacing, installing electric resistors, capacitor banks, SVCs, SVGs, FACTS devices, BESSs, synchronous compensators...; expanding substation bays, renovating and completing substation diagrams in a flexible direction; installing short-circuit current limiting devices, replacing and upgrading devices to ensure synchronous short-circuit current capacity, setting up automatic circuits; replacing devices to ensure synchronous load capacity of transmission lines and transformers; installing and replacing devices, control systems, SCADA/EMS systems,

Table 6: List of newly built and renovated 220 kV lines in the Northern region

No.	Line name	Number of circuits	X	km	Note
I	**Phase 2025-2030**				
1	Dong Anh 500 kV - Van Tri	2	x	16	New construction
2	Dai Mo (My Dinh) - West Hanoi - Thanh Xuan	4	x	2	Connecting to Dai Mo 220 kV Substation
3	West Hanoi - Thanh Xuan	4	x	16	Connecting to Thanh Xuan 220 kV Substation
4	Renovating 220 kV Son Tay - Vinh Yen line from 1 circuit to 2 circuits	2	x	30	Convert one circuit into two circuits, and simultaneously change the connection into a two-circuit line Son Tay - Vinh Yen
5	Chuong My - Hoa Binh - Ha Dong	2	x	2	Connecting to 220 kV Chuong My Substation
6	Dan Phuong 500 kV - Me Linh	2	x	15	New construction
7	Dan Phuong 500 kV - Cau Giay	2	x	20	Overhead lines and underground cables (inner city), connecting to 220 kV Cau Giay substation
8	Dan Phuong 500 kV connection - Chem - Van Tri and Chem - Tay Ho	4	x	11	New construction
9	South Hanoi 500 kV - Ha Dong - Phu Ly	4	x	5	New construction
10	Hai Ba Trung - Mai Dong	2	x	3	Underground cable, connecting 220 kV Hai Ba Trung substation
11	Hai Ba Trung – Thanh Cong	2	x	5	Underground cable, connecting 220 kV Hai Ba Trung substation
12	Long Bien - Mai Dong	2	x	15	New construction
13	Long Bien 2 - Turn to Mai Dong - Long Bien	4	x	3	Connecting to 220 kV side of Long Bien 2 Substation
14	Hung Yen 1 500 kV - Long Bien 2	2	x	20	Connecting to 500 kV Hung Yen 1 substation
15	Hung Yen 1 500 kV - Pho Noi - Thuong Tin	4	x	4	New construction
16	Circuit 2 Ha Dong - Ung Hoa - Phu Ly	2	x	40	Converting one circuit into two circuits, expanding two bays at Ung Hoa 220 kV

					station
17	Me Linh - Soc Son - Van Tri (circuit 1)	2	x	2	Connection to 220 kV Me Linh Substation
18	Me Linh - Soc Son - Van Tri (circuit 2)	2	x	2	Connecting 220 kV Me Linh substation. Changing the connection of 220 kV Vinh Yen 500 kV - Me Linh and Me Linh - Van Tri to Vinh Yen - Van Tri when the short-circuit current in the area increases higher than the allowable limit.
19	South Hanoi 500 kV - Phu Xuyen	2	x	15	Connecting to 220 kV Phu Xuyen Substation
20	Hoa Binh - West Hanoi circuit 4	1	x	50	New construction, renovating the old Hoa Binh - Ha Dong line 3. Synchronize with renovating the 220kV distribution yard diagram of Hoa Binh hydropower to limit short circuit current.
21	Increasing the load capacity of 500 kV Thuong Tin - Pho Noi	2	x	34	Increase the load capacity of 1 circuit Thuong Tin - 220 kV Pho Noi substation, 1 circuit Thuong Tin - 500 kV Pho Noi substation
22	Increase Hiep Hoa loading capacity - Soc Son	2	x	10	Increase the load capacity of two circuits of the 220kV Hiep Hoa - Soc Son line, remove the remaining two circuits to limit short-circuit current.
23	Increase loading capacity of Van Tri - Tay Ho - Chem	2	x	20	Ensuring electricity supply in Hanoi
24	Increase loading capacity of Xuan Mai - Ha Dong	1	x	25	Renovation
25	Soc Son 2 - Hiep Hoa - Dong Anh	2	x	3	Connection to 220 kV Soc Son 2 substation
26	Son Tay 500 kV - Hoa Lac	2	x	12	New construction
27	Son Tay 500 kV - Hoa Lac 2	2	x	15	New construction
28	Son Tay 500 kV - Son Tay branch - Vinh Yen	4	x	5	New construction
29	West Hanoi 500 kV - Hoa Lac	2	x	14	New construction
30	Ung Hoa - Ha Dong - Phu Ly	2	x	1	Connection to 220 kV Ung Hoa Substation
31	Van Dien - Turn to Ha Dong - Thuong Tin	4	x	7	Connection to 220 kV Van Dien substation
32	Hanoi 2 - Son Tay Renewable Energy (*)	2	x	15	New construction
33	Duong Kinh - Turn to Dong Hoa - Dinh Vu	4	x	3	Connecting 220 kV Duong Kinh substation, and simultaneously transiting the connection from Hai Duong 2 - Dong Hoa and Dong Hoa - Dinh Vu to Hai Duong 2 - Dinh Vu
34	An Lao - Dong Hoa - Thai Binh	4	x	2	Connecting to 220 kV An Lao Substation
35	Cat Hai - Dinh Vu	2	x	12	In case the 220 kV Dinh Vu transformer station cannot be expanded, consider connecting a 220 kV Dinh Vu - Duong Kinh line circuit.
36	Dai Ban - Hai Duong 2 - Duong Kinh	4	x	2	Connecting to Dai Ban 220 kV Substation
37	Do Son - Duong Kinh	2	x	8	Connecting to 220 kV Do Son Substation
38	Hai Phong 2 500 kV - Dong Hoa - Vat Cach	4	x	10	New construction
39	Hai Phong 2 500 kV - Dai Ban	4	x	5	New construction, consideration of connecting to Dai Ban 220kV substation
40	Hai Phong 500 kV - Duong Kinh	2	x	8	New construction

41	Hai Phong 500 kV - Tien Lang	2	x	14	Connection to 220 kV Tien Lang Substation
42	Nam Hoa - Cat Hai	2	x	12	New construction
43	Busbar 1 - Do Son (*)	2	x	10	New construction , synchronized with the scale and progress of the offshore wind power source in the North. The detailed plan and volume will be accurate during the project implementation phase, depending on the results of the actual sea survey.
44	Gia Loc - Hai Duong thermal power - Pho Noi	4	x	5	New construction
45	500 kV Hai Phong - Gia Loc	2	x	32	New construction
46	Gia Loc 500 kV - Gia Loc - Hai Phong 500 kV	4	x	5	Connecting 500 kV Gia Loc substation, in case land fund cannot be arranged to connect Gia Loc 220 kV
47	Nhi Chieu - Mao Khe - Hai Duong 2	4	x	2	Connecting to 220 kV Nhi Chieu Substation
48	Tan Viet - Gia Loc - Pho Noi	4	x	3	Connecting to Tan Viet 220 kV Substation
49	Thanh Ha - 500 kV Hai Phong-Gia Loc	2	x	12	Connecting to Thanh Ha 220 kV Substation
50	Tu Ky - Hai Phong 500 kV - Gia Loc	4	x	4	New construction
51	Gia Loc 500 kV - Thanh Mien	2	x	11	New construction
52	Nam Sach - Hai Duong thermal power	2	x	11	New construction
53	Bai Say - Kim Dong	2	x	11	Connecting to Bai Say 220 kV Substation
54	Hung Yen 2 500 kV - Dong van	2	x	14	Connecting of 500 kV Hung Yen 2 Substation
55	Hung Yen 2 500 kV - Kim Dong - Pho Cao	4	x	5	Connecting of 500 kV Hung Yen 2 Substation
56	Van Giang - Hung Yen 1 500 kV - Thuong Tin 500 kV	4	x	2	Connecting to 220 kV Van Giang Substation
57	Circuit 2 Nho Quan - Phu Ly	1	x	40	New construction and renovation of 1 circuit into 2 circuits
58	Dong Van - Phu Ly	2	x	17	Connecting 220 kV Dong Van substation, in case Phu Ly cannot expand the bays, carry out Ha Dong - Phu Ly transition
59	Ly Nhan - Thanh Nghi - Thai Binh	4	x	2	Connecting to 220 kV Ly Nhan Substation
60	Hai Hau - Truc Ninh	2	x	17	Connecting to 220 kV Hai Hau Substation
61	Nam Dinh 2 - to Truc Ninh - Ninh Binh and Truc Ninh - Nam Dinh	4	x	2	Connecting to 220 kV Nam Dinh 2 Substation
62	Nam Dinh 500 kV - Hai Hau	2	x	10	Connecting to 500 kV Nam Dinh Substation
63	Nam Dinh 500 kV - Hau Loc	2	x	47	Connecting to 500 kV Nam Dinh Substation
64	Nam Dinh 500 kV Thermal Power - Nam Dinh 3	2	x	18	Synchronize with the progress of specialized load development
65	Nam Dinh 500 kV - Ninh Binh 2 Power Plant	2	x	30	Large cross-section phase wire. Connection to 500 kV Nam Dinh substation
66	Nghia Hung - Nam Dinh 500 kV Thermal Power - Hau Loc	4	x	2	Connecting to 220 kV Nghia Hung Substation

67	Giao Thuy - LNG Thai Binh - Truc Ninh	4	x	4	New construction, connection of 220kV Giao Thuy substation
68	Vu Thu - Thai Binh - Nam Dinh and Thai Binh - Ninh Binh	4	x	2	Connecting to 220 kV Vu Thu Substation
69	LNG Thai Binh - Tien Lang	2	x	56	New construction, synchronized power source
70	LNG Thai Binh - Truc Ninh	2	x	50	New construction, synchronized power source
71	Quynh Phu - Thai Binh - Dong Hoa	4	x	2	Connecting to 220 kV Quynh Phu Substation
72	Thai Binh 500 kV - Thai Binh - Kim Dong	4	x	5	Connecting to 220 kV side of Thai Binh 500 kV
73	Thai Binh 500 kV - Thanh Nghi	2	x	53	New construction
74	Renovation of 220 kV Gia Vien - Tam Diep - Bim Son 01 circuit into 02 circuits	2	x	34	Gia Vien - Tam Diep - Bim Son 220kV Line replaces Ninh Binh - Tam Diep - Bim Son 220kV Line in case of relocation of Ninh Binh 220kV Substation
75	Gia Vien - Nam Dinh	2	x	13	Gia Vien - Nam Dinh connection switch, implemented in case of moving Ninh Binh 220 kV substation
76	Gia Vien - Nho Quan 500 kV - Ninh Binh	4	x	1	Connecting to Gia Vien 220 kV Substation
77	Increase Nho Quan loading capacity 500 kV-Ninh Binh	2	x	26	Renovation
78	Ninh Binh 2 - Ninh Binh - Thai Binh	2	x	12	Connecting to 220 kV Ninh Binh 2 substation
79	Tam Diep - Bim Son - Ninh Binh	4	x	5	Connecting to the 220 kV Tam Diep substation on one circuit first, connect the remaining circuit synchronously with the 220 kV Gia Vien - Tam Diep - Bim Son line
80	Ninh Binh Flexible Power Plant - Nam Dinh 500 kV - Hau Loc	2	x	16	New construction and synchronous Ninh Binh Flexible Power Plant
81	Bac Quang - Vietnam - China border (Ha Giang province)	2	x	55	Increase purchase of Chinese electricity
82	Increase the load capacity of Ha Giang - Bac Me Thermal power and Ha Giang - Thai Nguyen			42+51	Increase the load capacity of AC410 sections on the Ha Giang - Bac Me DT route (42km) and Ha Giang - Thai Nguyen (5km)
83	Hanging rope circuit 2 Ha Giang - Vietnam - China border	1	x	30	Increase purchase of Chinese electricity
84	Bao Lam - Bac Me	2	x	30	Releasing the capacity of small hydropower plants in Ha Giang
85	Cao Bang - Lang Son	2	x	120	New construction
86	Bat Xat - 500 kV Lao Cai	2	x	47	Connection to 220 kV Bat Xat Substation
87	500 kV Lao Cai connection	4	x	5	Connecting to 500 kV Lao Cai substation, Bao Thang - Yen Bai branch
88	Bac Ha - Lao Cai 500 kV	1	x	50	Synchronize with regional power source scale and progress
89	Bac Ha - 500 kV Lao Cai	1	x	5	Reduce the load on 220kV Bao Thang transmission line - Lao Cai 500 kV
90	Than Uyen - 500 kV Lao Cai	2	x	73	Connecting 220 kV Than Uyen substation, clearing small hydropower plants
91	Van Ban - Than Uyen turn -	4	x	10	Connecting 220 kV Van Ban substation,

	Lao Cai 500 kV				releasing small hydropower capacity
92	Increase Lao Cai capacity 500 kV-Luc Yen	2	x	90	Renovation
93	Bac Kan 1 - Bac Kan (*)	2	x	10	New construction
94	Dong Mo - Bac Giang - Lang Son	4	x	1	Connection to 220 kV Dong Mo Substation
95	Lang Son 1 - Dong Mo (*)	2	x	60	Synchronize with regional power source scale and progress
96	Lang Son 2 - Lang Son 1 500 kV (*)	2	x	20	New construction
97	Yen Son Hydropower - Tuyen Quang Hydropower - Tuyen Quang	2	x	8	Synchronous Hydropower Yen Son
98	Nghia Lo - Viet Tri (500 kV Viet Tri)	2	x	93	Relieving Small hydropower
99	Huoi Quang - Nghia Lo	2	x	103	Releasing Small hydropower
100	Bac Quang connection switch - Luc Yen	2	x	1	Transfer connection Bac Quang to Luc Yen
101	Luc Yen - 220 kV Lao Cai - Yen Bai	4	x	5	New construction
102	Increase the loading capacity of Luc Yen - Yen Bai	2	x	58	Increase load capacity, increase purchase of Chinese electricity
103	Increase Yen Bai - Tuyen Quang loading capacity	2	x	36	Increase load capacity, increase purchase of Chinese electricity
104	Yen Bai 2 - Yen Bai 500 kV (*)	2	x	10	New construction
105	Yen Bai 500 kV - Yen Bai turn - Tuyen Quang (*)	4	x	5	New construction
106	Yen Bai 1 - Yen Bai 500 kV (*)	2	x	10	New construction
107	An Binh Power Plant Connection (*)	2	x	10	New construction, synchronization of power sources. Document No. 27/UBND-CN dated January 4, 2025 proposes a transitional connection on the 220kV Bao Thang - Yen Bai line. The specific connection plan is accurate during the project implementation phase.
108	An Thinh Hydropower Connection (*)	2	x	10	New construction, synchronization of power sources. Document No. 27/UBND-CN dated January 4, 2025 proposes a transitional connection on the 220kV Bao Thang - Yen Bai line. The specific connection plan is accurate during the project implementation phase.
109	Viet Thanh Hydropower Connection (*)	2	x	10	New construction, synchronization of power sources. Document No. 27/UBND-CN dated January 4, 2025 proposes a transitional connection on the 220kV Bao Thang - Yen Bai line. The specific connection plan is accurate during the project implementation phase.
110	Thai Nguyen 2 Renewable Energy Plant - Tuyen Quang - Thai Nguyen 500 kV (*)	2	x	10	New construction, synchronized power source
111	Phu Binh 2 - Thai Nguyen - Bac Giang	2	x	13	Connecting to 220 kV Phu Binh 2 Substation
112	500 kV Hiep Hoa - Phu Binh 2	2	x	14	Connecting to 220 kV Phu Binh 2 Substation
113	500 kV Thai Nguyen - Luu Xa - Phu Binh	2	x	13	Connecting to 220 kV side of 500 kV Thai Nguyen substation

114	500 kV Thai Nguyen - Malungtang - Thai Nguyen	2	x	14	Connecting to 220 kV side of 500 kV Thai Nguyen substation
115	500 kV Thai Nguyen - Tuyen Quang Branch (TBA) - Phu Binh	2	x	14	Connecting to 220 kV side of 500 kV Thai Nguyen substation
116	Dai Tu - Branch to Tuyen Quang - Thai Nguyen 500 kV	4	x	2	Connecting to Dai Tu 220 kV Substation
117	Yen The 500 kV connection	4	x	4	New construction
118	Hiep Hoa 2 - Hiep Hoa 500 kV - Phu Binh 2	4	x	5	Connection to 220 kV Hiep Hoa 2 Substation
119	Increase the loading capacity of Hiep Hoa - Phu Binh	1	x	11	Increase the load capacity of ACSR410 circuit
120	Increase load capacity Thai Nguyen - Luu Xa - Phu Binh	1	x	30	Renovation
121	Song Cong - Tuyen Quang - Phu Binh	2	x	1	Connecting to 220 kV Song Cong Substation
122	Tan Yen - Yen The - Viet Yen	4	x	5	Connecting to Tan Yen 220 kV Substation
123	Yen The 500 kV - Viet Yen	2	x	25	Connecting to 220 kV Viet Yen Substation
124	500 kV Viet Tri - Ba Thien (500 kV Vinh Yen)	2	x	50	New construction
125	Phu Tho 2 - Son La - Viet Tri	2	x	1	Connecting to 220 kV Phu Tho 2 Substation
126	Increase load capacity to 500 kV Viet Tri - Viet Tri	2	x	10	Renovation
127	Increasing the load capacity of 500 kV Viet Tri - Vinh Tuong	1	x	27	Renovation
128	Increasing the load capacity of 500 kV Viet Tri - Vinh Yen	1	x	36	Renovation
129	Phu Tho 3 - Nghia Lo - 500 kV Viet Tri	4	x	22	Connection to 220 kV Phu Tho 3 Substation
130	Ba Thien (Vinh Yen 500 kV) - Vinh Yen - Soc Son	2	x	13	Connecting to Ba Thien 220kV substation. Combining renovation and increasing the load capacity of the existing line from Vinh Yen 220kV to the intersection point.
131	Chan Hung - 500 kV Viet Tri - 220 kV Vinh Yen	2	x	2	Connecting to 220 kV Chan Hung Substation
132	Phuc Yen - Vinh Yen 500 kV - 220 kV Vinh Yen	2	x	1	New construction
133	Tam Duong - 500 kV Viet Tri - Ba Thien (500 kV Vinh Yen)	4	x	4	Connecting to Tam Duong 220 kV Substation
134	Vinh Tuong - Vinh Yen	2	x	17	New construction and renovation, conversion of connection to 02-circuit line Vinh Tuong - Vinh Yen
135	Vinh Yen 500 kV - Me Linh	2	x	28	Replacing the 220 kV Me Linh - Ba Thien line in the adjusted Power Plan VII. The 220 kV Ba Thien station is connected to the 500 kV Vinh Yen station.
136	Pha Lai Thermal power - Bac Giang Circuit 2	2	x	27	Convert 1 circuit into 2 circuits
137	Bac Giang 1 - Lang Son 1 (*)	2	x	35	Synchronize with regional power source scale and progress
138	Bac Giang 500 kV - An Khanh Thermal Power Plant Bac Giang	4	x	8	Connection to 220kV side of 500kV Bac Giang substation

	- Lang Son				
139	Connecting to An Khanh Bac Giang Thermal Power Plant	4	x	14	Synchronizing An Khanh Bac Giang Thermal Power Plant, connecting on 220 kV Bac Giang - Lang Son line
140	Dong Mo - Son Dong	2	x	60	New construction
141	Lang Giang - Bac Giang - Thai Nguyen	2	x	1	Connection of 220 kV Lang Giang transformer station
142	Yen Dung - Pha Lai Thermal power - Quang Chau	2	x	1	Connecting to Yen Dung 220 kV Substation
143	Bac Ninh 4 - Dong Anh	2	x	14	Connecting to 220 kV Bac Ninh 4 Substation
144	Bac Ninh 5 - Bac Ninh 500 kV - Pho Noi	2	x	7	Connecting to 220 kV Bac Ninh 5 substation
145	Bac Ninh 500 kV - Bac Ninh	2	x	10	Synchronize with the connection of 220kV Pha Lai - Bac Ninh and Bac Ninh - Quang Chau lines to Pha Lai - Quang Chau to limit short-circuit current.
146	Bac Ninh 500 kV - Bac Ninh 4	2	x	14	New construction
147	Bac Ninh 500 kV - Bac Ninh 2 - Pho Noi	4	x	3	Connecting to 220 kV Bac Ninh 500 kV
148	Bac Ninh 6 - Pha Lai - 500kV Pho Noi	2	x	3	Connecting 220 kV Bac Ninh 6 substation, consider using 04-circuit poles before 02 circuits
149	Bac Ninh 7 - Dong Anh 500 kV - Bac Ninh 4	4	x	2	New construction
150	Cong Hoa - Cam Pha - Hai Ha	4	x	2	New construction
151	Vietnam - China Border - Mong Cai	2	x	15	New construction to serve increased purchase of Chinese electricity
152	Hai Ha - Mong Cai	2	x	40	New construction
153	Hai Ha - Hai Ha 2	2	x	10	New construction, replacement of Hai Ha - Hai Ha Industrial Park power line in the VIII Master Plan
154	Khe Than – Branch to Trang Bach - Hoanh Bo	2	x	2	Connecting to Khe Than 220 kV Station
155	Increasing Load Capacity of Quang Ninh - Hoanh Bo	2	x	20	Renovation
156	Quang Ninh 1 - Branch to Hoanh Bo - Son Dong Thermal Power and Hoanh Bo Trang Bach (*)	4	x	5	Synchronize with regional power source scale and progress
157	Yen Hung - Nam Hoa	2	x	29	Connecting to 220 kV Nam Hoa Substation
158	Renewable Energy Quang Ninh 2 - Cong Hoa (*)	2	x	16	New construction
159	Quang Ninh 2 500 kV – Branch to Yen Hung - Nam Hoa	4	x	15	New construction
160	Quang Ninh 2 500 kV – Branch to Hoanh Bo - Trang Bach	2	x	5	New construction
161	Pac Ma - Muong Te	2	x	31	Relieving hydropower
162	Lai Chau 500 kV - Phong Tho	2	x	60	Relieving the capacity of hydropower, reducing the load of 500kV Lai Chau substation, large cross-section phase conductors
163	Muong Te - Sin Ho	2	x	35	Capacity of small-scale hydropower in Muong Te
164	Nam Ou 7 - Lai Chau	2	x	65	Connecting to Nam Ou 5, 6, 7 hydropower plants (Laos). The entire route is 2x97km, 2x65km in Vietnam.

					Synchronized hydropower source from Laos.
165	Phong Tho - Than Uyen	2	x	88	Relieving small hydropower
166	Sin Ho – Branch to 500 kV Lai Chau - Phong Tho	4	x	5	Connecting to 220 kV Sin Ho substation, relieving local power source
167	Renewable Energy Lai Chau 1 - Than Uyen (*)	2	x	10	New construction
168	Renewable Energy Lai Chau 2 - Than Uyen (*)	2	x	10	New construction
169	Than Uyen 500 kV – Than Uyen	2	x	10	New construction, connecting to Phong Tho - Than Uyen
170	Than Uyen 500 kV - Branch to Ban Chat Hydropower - Than Uyen	4	x	5	New construction
171	500 kV Son La - Dien Bien	2	x	133	Connecting to 220 kV Dien Bien Substation
172	Dien Bien 1 - Dien Bien (*)	2	x	23	Synchronize with regional power source scale and progress
173	Dien Bien 1 - Lai Chau (*)	2	x	52	Synchronize with regional power source scale and progress
174	Nam Ou 5 - Dien Bien	2	x	22	Connecting to Nam Ou 5, 6, 7 Hydropower Plants (Laos). The entire route is 2x73km, 2x22km in Vietnam. Synchronize with hydropower sources from Laos.
175	Dien Bien 2 - Dien Bien 500 kV(*)	2	x	18	New construction
176	Dien Bien 500 kV - Branch to Dien Bien 1 - Dien Bien (*)	4	x	5	New construction
177	Moc Chau – Branch to Trung Son Hydropower	2	x	35	Connecting to 220 kV Moc Chau Substation
178	Increasing load capacity of 500 kV Son La - Muong La	1	x	21	Synchronize with regional power source scale and progress
179	Increasing load capacity of 500 kV Son La - Son La	1	x	41	Synchronize with regional power source scale and progress
180	Increasing loading capacity of Huoi Quang - Son La	2	x	20	New construction
181	Phu Yen – Branch to Son La - Viet Tri	2	x	7	Connecting to 220 kV Phu Yen substation (specialized load power supply)
182	Son La 1 - Branch to Son La – Suoi Sap 2A(*)	2	x	5	Synchronize with regional power source scale and progress
183	Song Ma - Son La 500 kV(*)	2	x	83	Relieving small hydropower capacity
184	Son La 2 - Son La (*)	2	x	35	New construction
185	Son La 3 - Son La 1 500 kV (*)	2	x	20	New construction
186	Son La 4 - Son La 1 500 kV (*)	2	x	20	New construction
187	Son La 5 - Son La 1 500 kV (*)	2	x	20	New construction
188	Son La 6 - Branch to Huoi Quang - Nghia Lo (*)	2	x	20	New construction
189	Connecting to Tan Lac	6	x	5	Tan Lac – Branch to Hoa Binh - Yen Thuy and change the connection to Trung Son Hydropower plant, forming 220 kV double circuit lines Hoa Binh - Tan Lac, Tan Lac - Yen Thuy and Tan Lac - Trung Son Hydropower plant - Hoi Xuan Hydropower plant
190	Thanh Hoa 500 kV - Sam Son	2	x	36	Connecting to 220 kV Sam Son Substation
191	500 kV Thanh Hoa - Hau Loc	2	x	35	Connecting to Hau Loc 220 kV

					Substation
192	Dong Vang - Branch to Nghi Son Thermal Power Plant - Nong Cong	4	x	4	Synchronize with load development progress
193	Circuit 3 Thanh Hoa - Nghi Son - Quynh Luu	1	x	83	Install 2nd circuit
194	Increasing the load capacity of Nong Cong - 500 kV Thanh Hoa	2	x	26	Renovation in case of relieving Nghi Son 2 Thermal Power Plant via 220 kV grid.
195	Nghi Son Thermal Power Plant – Branch to Nong Cong - Quynh Luu	2	x	10	Change the connection of Nong Cong - Nghi Son and Nghi Son - Quynh Luu to Nong Cong - Quynh Luu. Replace the 220 kV line Nghi Son Thermal Power Plant – Branch to Nghi Son - Vinh
196	Nghi Son 2 - Branch to Nghi Son Industrial Park - Nong Cong	4	x	2	Connecting to Nghi Son 2 220kV station, synchronize with the progress of specialized load development
197	Nong Cong - Nghi Son – change the connection to Nghi Son Thermal Power Plant	2	x	42	Phase 2 of Nghi Son Thermal Power Plant line – Branch to Nong Cong - Quynh Luu, restoring the original condition of Nong Cong - Quynh Luu 220 kV transmission line
198	Nam Sum Hydropower Plant (Laos) - Nong Cong	2	x	129	Another name of the 220 kV line "220 kV Nam Sum - Nong Cong Switching Station (with transmission line in the Vietnamese territory)", was approved in document No. 1889/TTg-CN dated December 27, 2018 of the Prime Minister. Synchronize with Nam Sum Lao Hydropower Plant
199	Thanh Hoa 1 – Branch to Nghi Son - Nong Cong (*)	4	x	2	Synchronize with regional power source scale and progress
200	Thanh Hoa 500 kV - Bim Son	2	x	36	Converting 220 kV Ba Che - Bim Son line from single circuit into double circuit
201	Thieu Hoa - Thanh Hoa 500 kV	2	x	5	Connecting to 220 kV Thieu Hoa Substation
202	Connected line of 220 kV Nghi Son Petrochemical Substation	2	x	10	New construction
203	Thieu Hoa - Thieu Yen	2	x	25	Connecting to 220 kV Thieu Yen Substation
204	Hoi Xuan Hydropower Plant – Branch to Trung Son - Nho Quan	2	x	16	New construction
205	Hoi Xuan Hydropower Plant - Ba Thuoc	2	x	30	Connecting to 220 kV Ba Thuoc Substation
206	Tinh Gia - Branch to Nong Cong - Nghi Son	2	x	8	Connecting to 220 kV Tinh Gia Substation
207	Nghe An 1 Renewable Energy - Nam Cam (*)	2	x	20	New construction
208	Nghe An 2 Renewable Energy - Quy Hop (*)	2	x	20	New construction
209	Truong Son Wind Power - Do Luong (*)	2	x	40	New construction
210	Do Luong - Nam Cam	2	x	36	Relieving capacity of Lao Hydropower Plant and Western Nghe An Hydropower Plant
211	Tuong Duong - Do Luong	2	x	81	Synchronize with Nam Mo hydropower cluster (Laos)
212	Quynh Luu 500 kV branch to Nghi Son - Quynh Luu	4	x	10	Connecting to 220 kV side of Quynh Luu 500 kV

213	Hoang Mai - Quynh Luu 500 kV	2	x	10	New construction
214	Hoang Mai – Branch to Nghi Son - Hung Dong	2	x	10	New construction
215	Hoang Mai 2 – Branch to Quynh Luu 500kV - Hoang Mai	2	x	5	New construction
216	My Ly – Ban Ve	2	x	72	Synchronize with My Ly Hydropower Plant
217	Increasing load capacity of Hung Dong - Quynh Luu and Hung Dong - Nghi Son	2	x	100	Renovate and increase the load capacity of 2 circuits of the 220 kV Hung Dong - Nghi Son and Hung Dong - Quynh Luu lines or consider the plan to renovate the Hung Dong - Nghi Son line from single circuit to double circuit if the feeder bays at Nghi Son and Hung Dong substations can be expanded. Relieving capacity of Lao Hydropower Plant and Western Nghe An Hydropower Plant
218	Quy Hop - Quynh Luu 500 kV	2	x	5	Connect to Quy Hop 220 kV substation, relieving capacity of small-scale hydropower.
219	Nam Mo 1 Hydropower Plant - Branch to My Ly - Ban Ve	2	x	18	Synchronize with Nam Mo 1 Hydropower Plant (Vietnam)
220	Tuong Duong – Quy Hop	2	x	80	Relieving the small-scale hydropower and increase electricity imports from Laos
221	Vung Ang 2 – Branch to Vung Ang - 500 kV Vung Ang Thermal Power Plant	2	x	2	Connecting to 220 kV Vung Ang 2 substation, synchronized with the progress of specialized load development
222	Vung Ang - 500 kV Vung Ang Thermal Power Plant	2	x	13	Connecting to 220 kV Vung Ang Substation
223	Can Loc - Branch to Ha Tinh - Hung Dong	4	x	2	Connecting to 220 kV Can Loc Substation
224	Ha Tinh 1 - Branch to Vung Ang - Ha Tinh (*)	4	x	4	Synchronize with regional power source scale and progress
225	Increasing load capacity of Ha Tinh - Hung Dong	2	x	66	Prevent overload in dry season. Improve the load capacity of 2 existing power lines.
226	Ha Tinh 2 Renewable Energy - Ha Tinh 2 500kV (*)	2	x	20	New construction
227	Ha Tinh 3 Renewable Energy - Ha Tinh 2 500kV (*)	2	x	20	New construction
228	Ha Tinh 4 Renewable Energy - Ha Tinh 2 500kV (*)	2	x	20	New construction
229	Ha Tinh 5 Renewable Energy - Ha Tinh 2 500kV (*)	2	x	20	New construction
230	Ban Chat Hydropower Plant Expansion - Branch to Ban Chat - Than Uyen	2	x	1	New construction, synchronize with power source. Proposed plan in EVN's Document No. 862/EVN-KH dated February 11, 2025. Specific connection plan is accurate during project implementation phase.
231	Tuyen Quang Hydropower Plant Expansion - Tuyen Quang Hydropower Plant	1	x	1	New construction, synchronize with power source. Proposed plan in EVN's Document No. 862/EVN-KH dated February 11, 2025. Specific connection plan is finalized during project implementation phase.

232	Song Lo 9 Hydropower Plant – Branch to Tuyen Quang - Phu Binh	2	x	2	Synchronize with Song Lo 9 Hydropower Plant
233	Tuyen Quang Hydropower Plant - Branch to Ha Giang - Thai Nguyen and Bac Me Hydropower Plant - Thai Nguyen	4	x	1	New construction, synchronize with Tuyen Quang Expansion Hydropower Plant
234	Estimated volume of connection of renewable energy sources			800	New construction
235	Provision for the construction and renovation of new 220 kV lines			314	New construction and renovation
II	**Phase 2031-2035**				
1	Dan Phuong 500 kV - Phuc Longevity	2	x	13	New construction
2	Dong Anh 2 - Branch to Van Tri - Tay Ho and Van Tri - Chem	4	x	2	New construction
3	Dong Anh 3 – Branch to Van Tri - Dong Anh 500 kV	4	x	2	New construction
4	Son Tay 500 kV - Phuc Tho	2	x	6	New construction
5	Thanh Oai - Branch to Ung Hoa - Ha Dong	2	x	5	New construction, connecting to 220kV Thanh Oai substation
6	Thanh Tri - Branch to Thuong Tin - Mai Dong	2	x	5	New construction, connecting to 220kV Thanh Tri
7	Van Tri 500 kV – Branch to Van Tri -Dong Anh 2	4	x	10	New construction
8	Van Tri 500 kV - Van Tri 2	2	x	10	New construction
9	Thuan My Hydropower Plant connection	2	x	10	New construction, synchronize with power source. Specific connection plan is finalized during project implementation phase.
10	Dinh Vu 2 - BB2	2	x	5	New construction
11	BB 2 - Cat Hai (*)	2	x	5	New construction, synchronize with the scale and progress of the offshore wind power source in the North. The detailed plan and volume will be finalized during the project implementation phase, depending on the results of the actual sea survey.
12	Hai Phong 2 500 kV - Hai Phong 2	2	x	5	New construction
13	Gia Loc 500 kV - Gia Loc – change the connection to Gia Loc - Tan Viet	2	x	10	New construction
14	Yen My – Branch to 500 kV Hung Yen 1 - Van Giang (2nd circuit)	2	x	2	New construction
15	Ha Nam 500 kV - Dong Van	4	x	12	New construction, connecting to Ha Nam 500kV
16	Ha Nam 500 kV – Branch to Thanh Nghi - Ly Nhan	4	x	4	New construction, connecting to Ha Nam 500kV
17	Kim Bang – Branch to Dong Van - Phu Ly	4	x	4	New construction
18	Nam Dinh 2 500 kV - Branch to Ninh Binh - Thai Binh	2	x	5	New construction
19	Tien Hai - Branch to Thai Binh - Truc Ninh	2	x	2	New construction
20	Thieu Yen - Ba Thuoc	2	x	65	New construction
21	Ha Giang 2 - Ha Giang 500 kV	2	x	10	New construction

22	Ha Giang 500 kV – Branch to Ha Giang - Bac Me Hydropower Plant and Ha Giang - Thai Nguyen	4	x	10	New construction
23	Quang Uyen – Branch to Cao Bang - Lang Son	4	x	5	New construction
24	Lao Cai 2 – Branch to Lao Cai 220 kV - China	2	x	2	New construction
25	Lao Cai 3 Renewable Energy - 500 kV Lao Cai (*)	2	x	20	New construction
26	Lang Son 2 500 kV – Branch to Lang Son - Dong Mo	4	x	10	New construction
27	Son Duong - Branch to Tuyen Quang - Dai Tu	2	x	2	New construction
28	500 kV Thai Nguyen 2 - Phu Binh 3	2	x	10	Connecting to 220 kV Phu Binh 3 Substation
29	Phu Luong - Branch to Thai Nguyen - Bac Me Hydropower Plant	2	x	2	New construction
30	Phuc Xuan – Branch to Thai Nguyen 500 kV - Thai Nguyen	2	x	5	New construction
31	Thai Nguyen 2 500 kV - Phu Binh 2	2	x	15	New construction
32	Thai Nguyen 2 500 KV- Song Cong	2	x	8	New construction
33	Phu Tho 3 - Viet Tri 2	2	x	22	New construction connecting to 220kV Viet Tri 2 substation
34	Phu Tho 500 kV – Branch to Phu Yen - Phu Tho 2	2	x	20	New construction
35	Phu Tho 500 kV-Viet Tri 2	2	x	20	New construction
36	Vinh Tuong 500 kV – Branch to Vinh Tuong - Vinh Yen	4	x	8	New construction
37	Vinh Tuong 500 kV - Vinh Tuong	2	x	8	New construction, change the connection to Vinh Tuong 500kV - Chan Hung
38	Bac Giang 500 kV - Chu	2	x	32	New construction
39	Chu – Branch to Son Dong - Dong Mo	4	x	2	New construction
40	Bac Ninh 2 500 kV – Branch to Bac Ninh 4 - Bac Ninh 7	4	x	5	New construction
41	Bac Ninh 3 500 kV - Bac Ninh 10	2	x	12	New construction
42	Bac Ninh 3 500 kV - Bac Ninh 9	4	x	2	New construction
43	Bac Ninh 6 – Branch to Pha Lai - 500 kV Pho Noi (2nd circuit)	2	x	3	New construction
44	Cong Hoa - Van Don	2	x	16	New,construction, connecting to 220kV Van Don substation
45	Lai Chau 3 Renewable Energy - Lai Chau 1 Renewable Energy 500 kV (*)	2	x	10	New construction
46	Lai Chau 4 Renewable Energy - Lai Chau 1 Renewable Energy 500 kV (*)	2	x	10	New construction
47	Hoa Binh 1- Yen Thuy (*)	2	x	18	New construction
48	Nam Hanoi 500 kV - Luong Son	2	x	18	New construction
49	Trung Son Hydropower Plant Expansion - Trung Son Hydropower Plant	1	x	1	New construction, synchronize with power source. Proposed plan in EVN's Document No. 862/EVN-KH dated February 11, 2025. Specific connection plan is finalized during project

					implementation phase.
50	Tinh Gia 500 kV – change the connection to Tinh Gia 220 kV	2	x	4	New construction
51	Tinh Gia 500 kV – Branch to Nong Cong - Nghi Son	4	x	4	New construction
52	Nam Cam 500 kV connection	4	x	5	Consider to cascade in 220kV Nam Cam substation
53	Hung Nguyen - Branch to Do Luong - Nam Cam	4	x	5	New construction, connecting to 220kV Hung Nguyen substation
54	Nam Cam 500 kV - Cua Lo	2	x	11	New construction
55	Ban Ve Hydropower Plant Expansion – Ban Ve Hydropower Plant	1	x	1	New construction, synchronize with Ban Ve Hydropower Plant Expansion
56	Loc Ha – Branch to Ha Tinh - Can Loc	4	x	7	New construction
57	Huoi Quang Hydropower Plant Expansion - Huoi Quang Hydropower Plant	2	x	1	New construction, synchronize with power source. Proposed plan in document No. 15/SCT-QLNL of the Department of Industry and Trade of Tuyen Quang province dated January 3, 2025
58	Huoi Quang Hydropower Plant Expansion - Branch to Ban Chat - Than Uyen	2	x	1	New construction, synchronize with power source. Proposed plan in document No. 15/SCT-QLNL of the Department of Industry and Trade of Tuyen Quang province dated January 3, 2025
59	Provision for the construction and renovation of new 220 kV lines			320	New construction and renovation

Table 7: List of newly built and renovated 500 kV substations in the Central region

No.	Substation name	Capacity (MVA)	Note
I	**Phase 2025-2030**		
1	Quang Binh (*)	2700	New construction, relieving renewable energy capacity
2	Lao Bao (Huong Hoa)	2700	New construction, relieving renewable energy capacity
3	Quang Tri 2 Switching Station	Switching station	New construction
4	Quang Tri	1800	New construction
5	Danang	1800	Renovation and capacity improvement
6	Thanh My	2700	Renovation, capacity enhancement, synchronize with power source development progress
7	Dung Quat	900	New construction, the name in the list of 500kV, 220kV lines connected to Dung Quat 500 kV substation is CCGT Dung Quat.
8	Binh Dinh	1800	New construction
9	Kon Tum	1800	New construction and installing transformer at Kon Tum 500 kV switching station in the 8th Power Development Plan, relieving renewable energy capacity
10	Pleiku 2	1800	Renovation and capacity improvement
11	Pleiku 3	1800	Renovation and capacity improvement
12	Nhon Hoa	1800	New construction
13	Krong Buk	1800	New construction
14	Ea Nam (*)	1800	Renovation, capacity upgrade, and relieving renewable energy capacity
15	Kon Ray (*)	1800	New construction, relieving renewable energy capacity
16	Dak Lak 1 Renewable Energy (*)	2700	New construction, relieving renewable energy capacity
17	Tuy Hoa	1800	New construction
18	Phu Yen 1 Renewable Energy (*)	1800	New construction, relieving renewable energy capacity
19	Substation capacity reserve for load growth and power source development	1800	New construction, renovate to increase capacity
20	Projects to improve the ability to control and operate power stations and power systems		New construction, including but not limited to projects: Replacement, installation of reactors, capacitors, SVC, SVG, FACTS equipment, BESS, synchronous compensators...; expand feeder bays in substation, renovate to increase capacity, improve graphs of substations in a flexible manner; install short-circuit current limiters, replace and upgrade devices to resist short-circuit currents, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.
II	**Phase 2031-2035**		
1	Doc Soi	1800	Renovation and capacity improvement
2	Dung Quat	1800	Renovation, capacity increase, name in the list of 500kV, 220kV lines connected to

			Dung Quat 500 kV substation is CCGT Dung Quat.
3	Pleiku	2700	Renovation and capacity improvement
4	Ea Sup Solar Power	1800	Renovation and capacity improvement
5	Huong Thuy	1800	New construction
6	Hoa Lien	900	New construction
7	Mang Yang (*)	1800	New construction, relieving renewable energy capacity
8	500 kV Ia Blu (*)	900	New construction, relieving renewable energy capacity
9	Dak Lak 1 Renewable Energy (*)	3600	Renovation, capacity upgrade, and relieving renewable energy capacity
10	Dak Nong 2(*)	1800	New construction, supply electricity for aluminum smelting loads (as proposed in Document No. 167 UBND-KT dated January 8, 2025 of Dak Nong Provincial People's Committee) and pooling renewable energy capacity
11	Dien Khanh	900	New construction
12	Quang Tri Renewable Energy (*)	1800	New construction, relieving renewable energy capacity
13	Phong Dien	900	New construction, considering connecting to Phong Dien 220 kV substation, relieving renewable energy capacity
14	Dak Lak 2 Renewable Energy (*)	3600	New construction, relieving renewable energy capacity
15	Substation capacity reserve for load growth and power source development	3600	New construction, renovation for capacity enhancement
16	Projects to improve the ability to control and operate power stations and power systems		New construction, including but not limited to projects: Replacement, installation of reactors, capacitors, SVC, SVG, FACTS equipment, BESS, synchronous compensators...; expand feeder bays in substation, renovate to increase capacity, improve graphs of substations in a flexible manner; install short-circuit current limiters, replace and upgrade devices to resist short-circuit currents, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.

Table 8: List of newly built and renovated 500 kV lines in the Central region

No.	Line name	Number of circuits	x	km	Note
	Phase 2025-2030				
1	Quang Binh - Branch to Vung Ang - Quang Tri (*)	4	x	5	New construction, connecting to 500 kV Quang Binh substation
2	Quang Tri Thermal Power Plant - Quang Tri	2	x	17	New construction, in case Quang Tri Thermal Power Plant continues to be implemented
3	Quang Tri – Branch to Vung Ang - Da Nang	4	x	6	New construction and connecting to 500 kV Quang Tri substation
4	Quang Tri 2 Switching Station – Branch to Quang Trach – Doc Soi	4	x	5	New construction
5	Lao Bao (Huong Hoa) - Quang Tri 2 switching station	2	x	31	New construction
6	Xebanghieng Thermal Power Plant Cluster (Laos) - Lao Bao (*)	2	x	20	New construction, import electricity from Laos
7	LNG Hai Lang - Quang Tri Thermal Power Plant	2	x	6	Newly build and synchronize Hai Lang LNG Phase 1. In case Quang Tri Thermal Power Plant is behind schedule, build first the Hai Lang - Quang Tri LNG line, about 23km long, connecting Hai Lang LNG Phase 1 and Quang Tri Thermal Power Plant, connecting to Hai Lang - Quang Tri LNG line (double circuits).
8	The middle of Central Region 1 pumped storage hydropower connection (*)	2	x	30	New construction, detailed connection plan, length, cross-section and route direction of the power line will be determined accurately during the project implementation phase.
9	The middle ofl Central Region 2 pumped storage hydropower connection (*)	2	x	30	New construction, detailed connection plan, length, cross-section and route direction of the power line will be determined accurately during the project implementation phase.
10	Thanh My - Branch to Quang Trach – Doc Soi	4	x	45	New construction
11	Monsoon - Thanh My	2	x	22	New construction, Electricity installed TI/2025
12	CGGT Dung Quat - Doc Soi	2	x	8	New construction
13	CGGT Central Region - Doc Soi	2	x	20	New construction
14	CGGT Dung Quat – Binh Dinh	2	x	207	New construction
15	Kon Ray - Branch to Doc Soi - Pleiku 2(*)	4	x	5	New construction and connect to 500 kV Kon Ray substation
16	Hatsan - Kon Tum (*)	2	x	100	New construction, import electricity from Laos
17	Kon Tum – Branch to Thanh My - Pleiku 2	4	x	5	New construction, connect to 500 kV Kon Tum substation
18	laly Hydropower Plant Expansion - Ialy Hydropower Plant	1	x	2	New construction
19	Nhon Hoa – Branch to Pleiku – Dak Nong	2	x	4	New construction
20	Dak Lak 1 Renewable Enery-Krong Buk (*)	4	x	20	New construction

21	Krong Buk - Tay Ninh 1	2	x	314	New construction
22	Krong Buk – Branch to Pleiku 2 - Chon Thanh	4	x	2	New construction and connecting to 500 kV Krong Buk substation
23	Van Phong - Binh Dinh	2	x	238	New construction
24	Binh Dinh - Krong Buk	2	x	216	New construction
25	Phu Yen 1 Renewable Energy - Tuy Hoa (*)	2	x	30	New construction
26	Tuy Hoa - Branch to Van Phong - Binh Dinh	4	x	5	New construction and connecting to 500 kV Tuy Hoa substation
27	Estimated connection volume and capacity relieving of renewable energy sources			200	New construction, renovation
28	Reserve for additional 500 kV new construction and renovation			200	New construction, renovation
	Phase 2031-2035				
1	Quang Tri Renewable Energy - Quang Tri 2 Switching Station (*)	2	x	31	New construction
2	The middle Central Region 1 HVDC converter station connection (*)	6	x	20	New construction, detailed connection plan, length, cross-section and route direction of the power line will be determined accurately during the project implementation phase.
3	Renovate Danang -Doc Soi into 2 Circuits	2	x	100	Renovation
4	Huong Thuy – Branch to Quang Tri - Da Nang	4	x	5	New construction and connecting to 500 kV Huong Thuy substation
5	Phong Dien – branch to Hoa Lien - Quang Tri 2 Switching Station	4	x	10	New construction
6	Hoa Lien - Branch to Quang Tri 2 Switching Station - Thanh My	4	x	5	New construction and connecting to 500 kV Hoa Lien substation
7	The middle of Central Region 3 pumped storage hydropower connection (*)	2	x	30	New construction, detailed connection plan, length, cross-section and route direction of the power line will be determined accurately during the project implementation phase.
8	The Middle of Central Region 2 HVDC converter station connection (*)	4	x	20	New construction, detailed connection plan, length, cross-section and route direction of the power line will be determined accurately during the project implementation phase.
9	The Middle of Central Region 4 Pumped Storage Hydropower Connection 4 (*)	2	x	30	New construction, detailed connection plan, length, cross-section and route direction of the power line will be determined accurately during the project implementation phase.
10	Mang Yang - Branch to GT Dung Quat - Krong Buk (*)	4	x	5	New construction
11	Dak Lak 1 Renewable Energy Power Plant – HVDC the Middle of Central Region 2 (*)	2	x	350	New construction, in case of high development of renewable energy sources in the Central Highlands, on the basis of renewable energy sources allocated to localities according to Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025
12	la Blu – Branch to Pleiku 2 - Krong Buk (*)	2	x	4	New construction
13	Dak Lak 2 Renewable Power Plant	4	x	30	New construction

	– Branch to Krong Buk - Chon Thanh (*)				
14	Dak Nong 2 – Branch to Krong Buk - Tay Ninh (*)	2	x	30	New construction and connecting to 500 kV Dak Nong 2 substation
15	Renovation of Dak Nong - Cau Bong from 1 circuit into 2 circuits	2	x	180	New construction, reserve for high-yield renewable energy development in the Central Highlands, based on renewable energy sources allocated to localities according to Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025
16	Dien Khanh -Branch to Van Phong 1 - Thuan Nam	4	x	5	New construction
17	Renovating Thanh My - Pleiku 2 into 2 circuits	2	x	199	New construction
18	Estimated connection volume and capacity relieving of renewable energy sources			200	New construction, renovation
19	Reserve for new and renovated 500 kV lines			200	New construction, renovation

Table 9: List of newly built and renovated 220 kV substations in the Central region

No.	Substation name	Capacity (MVA)	Note
I	**Phase 2025-2030**		
1	Dong Hoi	375	Renovation and capacity improvement
2	Ba Don	500	Renovation and capacity improvement
3	Le Thuy (*)	750	New construction, relieving of renewable energy capacity
4	Lao Bao	750	Renovation, capacity improvment, and relieving of renewable energy capacity
5	Dong Ha	500	Renovation and capacity improvement
6	Huong Linh	250	New construction
7	Huong Tan	500	Renovation and capacity improvement
8	Dong Nam	250	New construction
9	Phong Dien	500	Renovation and capacity improvement
10	Chan May	250	New construction
11	Huong Thuy	250	New construction
12	Lien Chieu	500	New construction
13	Danang Airport	250	New construction
14	Tien Sa	250	New construction
15	Tam Ky	500	Renovation and capacity improvement
16	Thanh My	500	Renovation and capacity improvement
17	Tranh River 2	500	Renovation and capacity improvement
18	Duy Xuyen	250	Renovation and capacity improvement
19	Tam Hiep	250	New construction
20	Dien Ban	250	New construction
21	Nam Hoi An	250	New construction
22	Nuoc Long Hydropower	275	Renovation and capacity improvement
23	Dung Quat 2	500	New construction
24	Quang Ngai 2	250	New construction
25	Phuoc An	500	Renovation and capacity improvement
26	Phu My	375	Renovation and capacity improvement
27	Nhon Hoi	500	New construction
28	Phu My 2	500	New construction, power supply for Phu My Industrial Zone
29	Tuy Hoa	500	Renovation and capacity improvement

30	Song Cau	250	New construction
31	Nam Phu Yen	750	New construction, power supply for steel loads
32	Van Phong	500	Renovation and capacity improvement
33	Van Ninh	250	New construction
34	Cam Thinh	250	New construction
35	Bo Y	250	New construction
36	Pleiku	500	Renovation and capacity improvement
37	Chu Se	500	Renovation and capacity improvement
38	An Khe	500	Renovation and capacity improvement
39	Pleiku 2 500 kV cascad	250	New construction
40	Krong Pa	250	New construction
41	Gia Lai 1 (*)	500	New construction, relieving renewable energy capacity
42	Krong Ana	375	Renovation and capacity improvement
43	Cascaded Krong Buk 500 kV	500	New construction
44	Ea Kar	250	New construction
45	Dak Nong	500	Renovation and capacity improvement
46	Dak Nong 2	500	New construction
47	Aluminum electrolysis	1184	New construction
48	Quang Binh 1 (*)	500	New construction
49	Quang Binh 2 (*)	500	New construction, relieving renewable energy capacity
50	Quang Tri 1 (*)	250	New construction, relieving renewable energy capacity
51	Quang Tri 2 (*)	500	New construction, relieving renewable energy capacity
52	Quang Ngai 1 Renewable Energy (*)	500	New construction, relieving renewable energy capacity
53	Kon Tum 1 (*)	750	New construction, relieving renewable energy capacity
54	Kon Tum 2 (*)	750	New construction, relieving renewable energy capacity
55	Kon Tum 3 (*)	750	New construction, relieving renewable energy capacity
56	Mang Yang (*)	500	New construction, relieving renewable energy capacity
57	Gia Lai 2 (*)	500	New construction, relieving renewable energy capacity
58	Ea Hleo Renewable Energy (*)	500	New construction, relieving renewable energy capacity
59	Ea Hleo	500	New construction
60	Dak Nong 3 (*)	500	New construction, relieving renewable energy capacity
61	Hoai My	500	New construction, power supply for Hoai My Industrial Zone
62	Phu Yen 1 (*)	500	New construction, relieving renewable energy capacity
63	Quang Binh 3 (*)	500	New construction, relieving renewable energy capacity
64	Dak Lak 1 Renewable Energy (*)	500	New construction, relieving renewable energy capacity
65	Dak Lak 2(*)	500	New construction, relieving renewable energy capacity
66	Dak Lak 3 Power Plant (*)	500	New construction, relieving renewable energy capacity
67	Dak Song	500	New construction, relieving renewable energy capacity
68	Binh Dinh 1 (*)	500	New construction, relieving renewable

			energy capacity
69	Phu Yen 2 (*)	500	New construction, relieving renewable energy capacity
70	Phu Yen 3 (*)	500	New construction, relieving renewable energy capacity
71	Reserve capacity of 220 kV substation for load growth and power source development	1000	New construction, renovation for capacity improvement
72	Projects to improve the ability to control and operate power stations and power systems		New construction, including but not limited to projects: Replacement, installation of reactors, capacitors, SVC, SVG, FACTS equipment, BESS, synchronous compensators...; expand feeder bays in substation, renovate to increase capacity, improve graphs of substations in a flexible manner; install short-circuit current limiters, replace and upgrade devices to resist short-circuit currents, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.
II	**Phase 2031-2035**		
1	Dong Hoi	500	Renovation and capacity improvement
2	Huong Linh	500	Renovation and capacity improvement
3	Dong Nam	500	Renovation and capacity improvement
4	Huong Thuy	500	Renovation and capacity improvement
5	Hai Chau	500	Renovation and capacity improvement
6	Danang Airport	500	Renovation and capacity improvement
7	Duy Xuyen	375	Renovation and capacity improvement
8	Tam Hiep	500	Renovation and capacity improvement
9	Doc Soi	375	Renovation and capacity improvement
10	Phu My	500	Renovation and capacity improvement
11	Van Ninh	500	Renovation and capacity improvement
12	Cam Thinh	500	Renovation and capacity improvement
13	Bo Y	500	Renovation and capacity improvement
14	Gia Lai 1 (*)	750	Renovation, capacity improvement, and relieving renewable energy capacity
15	Krong Ana	500	Renovation and capacity improvement
16	Ea Kar	500	Renovation and capacity improvement
17	Quang Tri 1 (*)	500	Renovation, capacity improvement, and relieving renewable energy capacity
18	Quang Tri 3 (*)	250	New construction, relieving renewable energy capacity
19	Quang Tri 4 (*)	500	New construction, relieving renewable energy capacity
20	Mang Yang (*)	750	Renovation, capacity improvement, and relieving renewable energy capacity
21	Gia Lai 2 (*)	750	Renovation, capacity improvement, and relieving renewable energy capacity
22	The middle of Central Region	500	New construction
23	Hue 1 Renewable Energy (*)	500	New construction, relieving renewable energy capacity
24	Hue 2 Renewable Energy (*)	500	New construction, relieving of renewable energy capacity
25	Kon Tum 4 (*)	500	New construction, relieving renewable energy capacity
26	Kon Tum 5 (*)	500	New construction, relieving renewable energy capacity

27	Gia Lai 3 (*)	500	New construction, relieving renewable energy capacity
28	Gia Lai 4 (*)	500	New construction, relieving renewable energy capacity
29	Dak Lak 1 Renewable Energy (*)	750	Renovation, capacity improvement, and relieving renewable energy capacity
30	Dak Lak 2 Renewable Energy (*)	750	Renovation, capacity improvement, and relieving renewable energy capacity
31	Dak Lak 3 Renewable Energy (*)	750	Renovation, capacity improvement, and relieving renewable energy capacity
32	Dak Lak 4 Renewable Energy (*)	750	New construction, relieving renewable energy capacity
33	Dak Lak 5 Renewable Energy (*)	750	New construction, relieving renewable energy capacity
34	Dak Lak 6 Renewable Energy (*)	750	New construction, relieving renewable energy capacity
35	Dak Lak 7 Renewable Energy (*)	750	New construction, relieving renewable energy capacity
36	Dak Nong 4 (*)	750	New construction, relieving renewable energy capacity
37	Reserve capacity of 220 kV substation for load growth and power source development	2000	New construction, renovation for capacity improvement
38	Projects to improve the ability to control and operate power stations and power systems		New construction, including but not limited to projects: Replacement, installation of reactors, capacitors, SVC, SVG, FACTS equipment, BESS, synchronous compensators...; expand feeder bays in substation, renovate to increase capacity, improve graphs of substations in a flexible manner; install short-circuit current limiters, replace and upgrade devices to resist short-circuit currents, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.

Table 10: List of newly built and renovated 220 kV lines in the Central region

No.	Line name	Number of circuits	x	km	Note
	Phase 2025-2030				
1	Ba Don - Branch to Vung Ang - Dong Hoi	2	x	3	New construction, switching on circuit 2
2	Le Thuy – Branch to Dong Hoi - Dong Ha	4	x	2	New construction, connecting to 220 kV Le Thuy substation
3	B&T1 Wind Power – Branch to Dong Hoi - Dong Ha Circuit 2	4	x	10	New construction
4	Quang Binh 500 kV – Branch to Dong Hoi - Dong Ha	4	x	5	New construction, connecting to 500 kV Quang Binh substation
5	Increasing load capacity of Dong Hoi - Dong Ha	2	x	108	Renovation
6	Quang Binh 1 - Quang Binh 500 kV (*)	2	x	21	New construction
7	Quang Binh 2 - Quang Binh 500 kV (*)	2	x	25	New construction
8	Quang Binh 3 - Quang Binh 500 kV (*)	2	x	25	New construction
9	500 kV Quang Tri substation branching to Dong Ha - Hue and Dong Ha - Phong Dien	6	x	6	New construction, connecting to 500 kV Quang Tri substation
10	Quang Tri 500 kV – Dong Nam	2	x	27	New construction, connecting to 220 kV Dong Nam substation
11	Dong Ha - Hue circuit 3	1	x	78	Renovation, Dong Ha - Quang Tri 500 kV - Hue
12	TNC Quang Tri 1 Wind Power – Hương Tan	1	x	11	New construction, relieving renewable energy capacity
13	Huong Linh - Lao Bao	1	x	12	New construction, relieving renewable energy capacity
14	LIG Huong Hoa 1 Wind Power - Huong Tan	1	x	13	New construction, relieving renewable energy capacity
15	LIG Huong Hoa 2 Wind Power – LIG Huong Hoa 1	1	x	8	New construction, relieving renewable energy capacity
16	Savan 1 Wind Power - Lao Bao	2	x	17	New construction, when Lao Bao 500 kV substation comes into operation, change the connection to Lao Bao (Huong Hoa) 500 kV substation
17	500 kV Lao Bao (Huong Hoa) -Branch to Lao Bao - Dong Ha	4	x	5	New construction, connecting to 500 kV Lao Bao (Huong Hoa) substation
18	500 kV Lao Bao (Huong Hoa) - Branch to Tai Tam - Lao Bao Road	2	x	5	New construction, connecting to 500 kV Lao Bao (Huong Hoa) substation
19	Quang Tri 1 - Quang Tri 500 kV (*)	2	x	10	New construction
20	Quang Tri 2 - Lao Bao 500 kV (*)	2	x	10	New construction
21	Chan May – Branch to Hoa Khanh - Hue	4	x	5	New construction, connecting to 220 kV Chan May substation
22	Phong Dien - Branch to Dong Ha - Hue (2nd circuit)	2	x	5	New construction
23	Huong Thuy – Branch to Hue - Hoa Khanh	4	x	2	New construction, connecting to 220 kV Huong Thuy substation
24	Increasing load capacity of Hue - Hoa Khanh	2	x	82	Renovation

25	Increasing load capacity of Da Nang - Tam Ky - Doc Soi	2	x	100	Renovation
26	Lien Chieu - Branch to Hoa Khanh - Hue	4	x	3	New construction, connecting to 220 kV Lien Chieu substation
27	Hai Chau - Ngu Hanh Son	2	x	11	New construction
28	Tien Sa - Branch to Hai Chau - Ngu Hanh Son	2	x	3	New construction, connecting to 220kV Tien Sa substation
29	Da Nang Airport – Branch to Hoa Khanh - Da Nang	2	x	5	New construction, connecting to 220 kV Da Nang Airport substation
30	Dien Ban - Nam Hoi An	2	x	24	New construction
31	Tam Hiep – Branch to Tam Ky – Doc Soi	4	x	1	New construction, connecting to 220 kV Tam Hiep substation
32	Da Nang 500 kV - Dien Ban	2	x	12	New construction, connect to 220 kV Dien Ban substation
33	Nam Emoun Hydropower Plant - Dak Ooc Switching Station	1	x	51	New construction
34	Increasing load capacity of Dak Ooc - Thanh My	2	x	31	Renovate and increase electricity import from Laos
35	Thanh My - Duy Xuyen	2	x	69	New construction, 500 kV Thanh My - Duy Xuyen substation
36	Dak Ooc 220 kV Switching Station - Song Bung 2 Hydropower Plant	2	x	10	New construction, increase electricity import from Laos
37	Phuoc An - Branch to An Khe Hydropower Plant - Quy Nhon (1st circuit)	2	x	2	Renovation
38	CCGT Dung Quat - Dung Quat 2	2	x	6	New construction, connecting to 220 kV Dung Quat 2 substation
39	Dung Quat - Dung Quat 2	2	x	3	New construction
40	Increasing load capacity of Doc Soi - Dung Quat	2	x	8	Renovation and consideration of new construction plan for Doc Soi – CCGT Dung Quat section
41	CCGT Dung Quat – Branch to Doc Soi - Dung Quat	4	x	3	New construction, adjusting the scale to 2x3 in case of new construction of Doc Soi – CCGT Dung Quat section
42	Quang Ngai 2 – Branch to Doc Soi - Quang Ngai	4	x	2	New construction
43	Quang Ngai 1 Renewable Energy – Branch to Quang Ngai - Phu My (*)	4	x	2	New construction
44	Increasing load capacity of Son Ha - Doc Soi	2	x	46	Renovation
45	Increasing load capacity of Quang Ngai - Doc Soi	2	x	60	Renovation
46	Replace phase conductor of 1st circuit of Quang Ngai - Quy Nhon (Phuoc An) line	1	x	140	Renovation
47	220 kV Bo Y switching station - Bo Y	2	x	30	New construction
48	Bo Y - Kon Tum	2	x	51	New construction
49	Dak Mi 1 Hydropower Plant - Dak My 2 Hydropower Plant	1	x	15	New construction
50	Dak Lo 3 Hydropower Plant - Branch to Thuong Kon Tum - Quang Ngai	4	x	1	New construction
51	500 kV Kon Ray – Branch to Thuong Kon Tum - Kon Tum	4	x	5	New construction, connecting to 500 kV Kon Ray substation
52	Thuong Kon Tum - Kon Tum	2	x	82	New construction
53	Increasing load capacity of Kon	2	x	36	Renovation

	Tum - Pleiku				
54	500 kV Kon Tum - Branch to Bo Y-Kon Tum (*)	4	x	5	New construction
55	Kon Tum 1 - Kon Tum 500 kV (*)	2	x	26	New construction
56	Kon Tum 2 - Kon Ray 500 kV (*)	2	x	30	New construction
57	Kon Tum 3 - 500 kV Kon Ray (*)	2	x	30	New construction
58	Son Ha – Thuong Kon Tum	2	x	35	New construction
59	Increasing load capacity of Pleiku - DSK An Khe - An Khe Hydropower Plant	1	x	98	Renovation
60	Chu Se – Branch to Pleiku 2 - Krong Buk (2nd circuit)	2	x	2	New construction
61	Pleiku 2 - Krong Buk 2nd Circuit	1	x	120	Renovation
62	Krong Pa - Chu Se	2	x	63	New construction
63	la Le 1 Wind Power Plant - Branch to Krong Buk - Pleiku 2 (2nd circuit)	2	x	6	New construction
64	Ia Boong Wind Power Plant – Branch to Chu Prong - Nhon Hoa 1 Wind Power	1	x	8	New construction
65	Mang Yang - Branch to An Khe Hydropower Plant - Pleiku (*)	2	x	5	New construction
66	Gia Lai 1 - Pleiku 3 (*)	2	x	20	New construction
67	Gia Lai 2 - Nhon Hoa (*)	2	x	20	New construction
68	Krong Buk 500 kV - Krong Buk	2	x	27	New construction
69	Krong Buk - Nha Trang 2nd Circuit	1	x	150	Renovation
70	Ea Kar - Branch to Krong Buk - Nha Trang	4	x	2	New construction
71	Increasing load capacity of Srepok 3 Hydropower Plant - Buon Kuop	1	x	34	Renovation
72	Ea Hleo Renewable Energy - 500 kV Ea Nam (*)	1	x	12	New construction
73	Ea Hleo - Branch to Krong Buk - Chu Se	4	x	5	New construction
74	Song Ba Ha Hydropower Plant - Krong Buk 500 kV	2	x	115	New construction
75	Krong Buk Wind Power – Branch to Krong Buk – 2nd Circuit of Pleiku 2	2	x	1	New construction
76	Dak Lak 1 Renewable Energy - 500 kV Dak Lak 1 Renewable Energy (*)	2	x	20	New construction
77	Dak Lak 2 Renewable Energy - 500 kV Dak Lak 1 Renewable Energy (*)	2	x	20	New construction
78	Dak Lak 3 Renewable Energy - 500 kV Dak Lak 1 Renewable Energy (*)	2	x	20	New construction
79	Increasing load capacity of Buon Kuop - Buon Tua Shra - Dak Nong 500 kV	1	x	112	Renovation
80	Dak Nong 2 - Branch to Buon Kuop - Buon Tua Srah	2	x	10	New construction
81	Dak Nong 3 - Dak Nong 500 kV	1	x	12	New construction
82	Dak Song – Branch to Dak Nong - Buon Kuop	2	x	4	New construction
83	Increasing load capacity of Pleiku 2 - Phuoc An	1	x	98	New construction
84	Phuoc An - Nhon Hoi	2	x	22	New construction
85	Binh Dinh 500 kV – Branch to	4	x	5	New construction

	Phuoc An - Phu My				
86	Binh Dinh 500 kV – Branch to An Khe - Quy Nhon and Pleiku 2 - Phuoc An	4	x	35	New construction
87	Phu My 2 - Phu My	2	x	20	New construction
88	Phu My - Branch to Phuoc An - Quang Ngai (2nd circuit)	2	x	2	Renovation
89	Hoai My - Branch to Phu My - Quang Ngai	4	x	5	New construction
90	Binh Dinh 1 - Binh Dinh 500 kV (*)	2	x	20	New construction
91	Increasing load capacity of Tuy Hoa - Van Phong - Nha Trang	2	x	118	Renovation
92	Tuy Hoa - Phuoc An	2	x	93	New construction
93	HBRE An Tho - Tuy Hoa	1	x	16	New construction
94	Increasing load capacity of Tuy Hoa - Quy Nhon	1	x	90	Renovation
95	Connection to 220 kV Song Cau Substation	4	x	5	New construction, Phase 1: Connected via existing 220 kV Tuy Hoa - Quy Nhon line. Phase 2: Connected via 2 circuits of 220 kV Tuy Hoa - Phuoc An as soon as this line is put into operation.
96	Nam Phu Yen – Branch to Nha Trang - Tuy Hoa	4	x	4	New construction, power supply to steel load
97	Phu Yen 1- Tuy Hoa 500kV (*)	2	x	21	New construction
98	Tuy Hoa 500 kV – Branch to Tuy Hoa - Phuoc An	4	x	5	New construction, connecting to 500 kV Tuy Hoa substation
99	Phu Yen 2 - Phu Yen 1 500 kV renewable energy (*)	2	x	21	New construction
100	Phu Yen 3 - Phu Yen 1 500 kV renewable energy (*)	2	x	21	New construction
101	Van Ninh - Branch to Van Phong - Tuy Hoa	4	x	2	New construction
102	500 kV Van Phong – Branch to Tuy Hoa - Van Phong 220 kV (2nd circuit)	2	x	26	New construction
103	Cam Thinh – Branch to Cam Ranh - Thap Cham	4	x	3	New construction
104	Van Phong 500 kV - Van 220 kV	2	x	20	New construction
105	Se San 3 Hydropower Plant Expansion – Branch to Se San 3A-Se San 3	2	x	2	New construction and connection of Se San 3 Expanded Hydropower Plant according to the proposal of EVN's Official Letter No. 862/EVN-KH dated February 11, 2025. The specific connection plan will be finalized during the project implementation phase.
106	Se San 4 Hydropower Plant Expansion – Branch to Pleiku - Se San 4	2	x	1	New construction and connection of Se San 4 Hydropower Plant Expansion as proposed in EVN's Official Letter No. 862/EVN-KH dated February 11, 2025. The specific connection plan will be finalized during the project implementation phase.
107	Srepok 3 Hydropower Plant Expansion – Branch to Srepok 3	2	x	1	New construction and connection of Srepok 3 Hydropower Plant

	Hydropower Plant - Buon Kuop				Expansion as proposed in EVN's Official Letter No. 862/EVN-KH dated February 11, 2025. The specific connection plan will be finalized during the project implementation phase.
108	Buon Kuop Hydropower Plant Expansion – Branch to Buon Kuop - Krong Ana	2	x	1	New construction and connection of Buon Kuop Hydropower Plant Expansion as proposed in EVN's Official Letter No. 862/EVN-KH dated February 11, 2025. The specific connection plan will be finalized during the project implementation phase.
109	Dak ND'rung 1,2,3 Wind Power-Dak Nong 500 kV	2	x	18	The project is included in Decision No. 500/QD-TTg dated March 15, 2023. Newly and synchronously construct Dak ND'rung 1,2,3 power plants in case these power plants are eligible for implementation.
110	Estimated connection volume and capacity relieving of renewable energy sources			500	New construction, renovation
111	Reserve for new and renovated 220 kV lines			500	New construction, renovation
	Phase 2031-2035				
1	CCGT Quang Tri – Branch to Dong Nam- 500 kV Quang Tri	2	x	5	New construction
2	Quang Tri 3 - Quang Tri Renewable Energy 500 kV (*)	2	x	16	New construction
3	Quang Tri 4 - Quang Tri Renewable Energy 500 kV (*)	2	x	20	New construction
4	Huong Thuy - Hue – connect to Phong Dien	2	x	19	New construction
5	Phong Dien 500 kV – Branch to Phong Dien - Hue	4	x	2	New construction
6	Hue 1 Renewable Energy - Phong Dien 500 kV (*)	2	x	20	New construction
7	Hue 2 Renewable Energy - Phong Dien 500 kV(*)	2	x	20	New construction
8	Da Nang 500 kV – Branch to Ngu Hanh Son - Duy Xuyen	2	x	8	New construction
9	Hoa Khanh – Branch to Hai Chau - Da Nang	2	x	1	New construction
10	500 kV Hoa Lien - Hoa Khanh – Connect to Lien Chieu	2	x	6	New construction
11	500 kV Hoa Lien – Branch to Hoa Khanh - Hai Chau	4	x	6	New construction and connecting to 500 kV Hoa Lien substation
12	Song Tranh 2 Hydropower Plant Expansion - Song Tranh 2 Hydropower Plant	1	x	1	New construction
13	Renovating to increase the load capacity of Duy Xuyen - Da Nang	1	x	30	Renovation
14	Renovating to increase the load capacity of Duy Xuyen - Ngu Hanh Son - Da Nang	1	x	50	Renovation
15	Renovating to increase the load	2	x	20	Renovation

	capacity of Thanh My 500 kV - Thanh My				
16	Kon Tum 4 - Kon Tum 500 kV (*)	2	x	30	New construction
17	Kon Tum 5 - Kon Ray 500 kV (*)	2	x	30	New construction
18	Mang Yang 500 kV – Branch to An Khe - Pleiku 2 (*)	2	x	10	New construction
19	Mang Yang 500 kV - branch to An Khe - Pleiku (*)	2	x	10	New construction
20	la Blu 500 kV – Branch to Chu Se - Krong Buk (*)	4	x	20	New construction
21	Gia Lai 3 - Mang Yang 500 kV (*)	2	x	20	New construction
22	Gia Lai 4 - Mang Yang 500 kV (*)	2	x	20	New construction
23	Dak Lak 4 Renewable Energy - Easup Solar Energy (*)	2	x	20	New construction
24	Dak Lak 5 Renewable Energy - Dak Lak 2 Renewable Energy 500 kV (*)	2	x	20	New construction
25	Dak Lak 6 Renewable Energy - Dak Lak 2 Renewable Energy 500 kV (*)	2	x	20	New construction
26	Dak Lak 7 Renewable Energy - Dak Lak 2 Renewable Energy 500 kV (*)	2	x	20	New construction
27	Dak Nong 4 - Dak Nong 2 500 kV (*)	2	x	12	New construction
28	Dien Khanh – Branch to Nha Trang - Cam Ranh	4	x	7	New construction, connecting to 500 kV Dien Khanh substation
29	Connecting Song Tranh Hydropower Plant Expansion	2	x	5	New construction and connection of Song Tranh Hydropower Plant Expansion as proposed in EVN's Official Letter No. 862/EVN-KH dated February 11, 2025. The specific connection plan will be finalized during the project implementation phase.
30	Se San 3A Hydropower Plant Expansion - Branch to Se San 3 Hydropower Plant - Se San 3A Hydropower Plant	2	x	2	New construction and connection of Se San 3A Power Plant Expansion as proposed in Document No. 11/BC-UBND of Kon Tum Provincial People's Committee dated January 13, 2025. The specific connection plan will be finalized during the project implementation phase.
31	Estimated connection volume and capacity relieving of renewable energy sources			500	New construction, renovation
32	Reseive for new and renovated 220 kV lines			500	New construction, renovation

Table 11: List of newly built and renovated 500 kV substations in the Southern region

No.	Project	Capacity (MVA)	Note
I	**Phase 2025-2030**		
1	Di Linh	1800	Renovation and capacity improvement
2	Thuan Nam	2700	Renovation and capacity improvement
3	Ninh Son	2700	New construction, flexible operating diagram design
4	Son My	900	New construction
5	Hong Phong (*)	1800	New construction, relieving renewable energy
6	NTB 1 (*)	2700	New construction, synchronized with scale and progress of offshore wind power source in South Central Vietnam
7	Cau Bong	2700	Renovation and capacity improvement
8	Cu Chi	1800	New construction
9	Chon Thanh	1800	Renovation and capacity improvement
10	Tay Ninh 1	1800	New construction
11	Tay Ninh 2	900	New construction
12	Tan Dinh	2700	Renovation and capacity improvement
13	Tan Uyen	2700	Renovation and capacity improvement
14	Binh Duong 1	1800	New construction
15	Binh Duong 2	Switching station	New construction and backup connection of South Central - South inter-regional transmission lines
16	Song May	2700	Renovation and capacity improvement
17	Long Thanh	1800	Renovation and capacity improvement
18	Dong Nai 2	1800	New construction
19	Phu My	900	Renovation and capacity improvement
20	Bac Chau Duc	1800	New construction
	Duc Hoa	1800	Renovation and capacity improvement
22	Long An	1800	New construction
23	Ben Tre (*)	900	New construction, relieving renewable energy
24	Thot Not	1800	New construction
25	Duyen Hai	1350	Renovation and capacity improvement
26	Tra Vinh 1 (*)	1800	New construction, in case of high development of renewable energy sources in Tra Vinh province, on the basis of renewable energy sources allocated to localities according to Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025
27	Long Phu	1800	Renovation and capacity improvement
28	Soc Trang (*)	1800	New construction, relieving renewable energy
29	Bac Lieu (*)	1800	New construction, relieving renewable energy
30	Ca Mau (*)	1800	New construction, relieving renewable energy
31	Substation reserve capacity for load growth and source development in the South	3600	Reserve for new 500 kV substation construction and capacity upgrade
32	Projects to improve the ability to control and operate power stations and power systems		Including but not limited to projects: Replacement, installation of reactors, capacitors, SVC, SVG, FACTS equipment, BESS, synchronous compensators...; expand feeder bays in substation, renovate to increase capacity, improve graphs of substations in a flexible manner; install short-circuit current limiters, replace and upgrade devices to resist short-circuit currents, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.
II	**Phase 2031-2035**		
1	Lam Dong	1800	New construction, synchronized aluminum smelting load (according to the request in Document No. 23/SCT-QLNL dated January 4, 2025 of the Department of Industry and Trade

			of Lam Dong province)
2	500kV Ninh Thuan 1 (*)	1800	New construction, relieving renewable energy
3	500kV Ninh Thuan 2 (*)	1800	New construction, relieving renewable energy
4	Hong Phong (*)	2700	Renovation and capacity improvement
5	NTB 2 (*)	1800	New construction, synchronized with scale and progress of offshore wind power source in South Central Vietnam
6	NTB 3 (*)	1800	New construction, synchronized with scale and progress of offshore wind power source in South Central Vietnam
7	Cu Chi	2700	Renovation and capacity improvement
8	Da Phuoc	2700	New construction, flexible operating diagram design
9	Thu Duc City	1800	New construction
10	Chon Thanh	2700	Renovation and capacity improvement
11	Loc Ninh (*)	2700	New construction, relieving renewable energy
12	Tay Ninh 2	1800	Renovation and capacity improvement
13	Tay Ninh 3 (*)	900	New construction, relieving renewable energy
14	Binh Duong 1	2700	Renovation and capacity improvement
15	Binh Duong 2	2700	Installing transformer at 500 kV Binh Duong 2 Switching Station
16	Long Thanh	2700	Renovation and capacity improvement
17	Dong Nai 4 (*)	2700	New construction, relieving renewable energy
18	Long Dien	1800	New construction
19	Long An 2	900	New construction
20	Dong Thap	1800	New construction
21	An Giang	1800	New construction
22	Tien Giang	1800	New construction
23	Ben Tre (*)	1800	Renovation and capacity improvement
24	Thot Not	2700	Renovation and capacity improvement
25	Duyen Hai	1800	Renovation and capacity improvement
26	Tra Vinh 2 (*)	900	New construction, relieving renewable energy
27	Substation reserve capacity for load growth and source development in the South	3600	Reserve for new 500 kV substation construction and capacity upgrade
28	Projects to improve the ability to control and operate power stations and power systems		Including but not limited to projects: Replacement, installation of reactors, capacitors, SVC, SVG, FACTS equipment, BESS, synchronous compensators...; expand feeder bays in substation, renovate to increase capacity, improve graphs of substations in a flexible manner; install short-circuit current limiters, replace and upgrade devices to resist short-circuit currents, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.

Table 12: List of newly built and renovated 500 kV lines in the Southern region

No.	Line name	Number of circuits	x	km	Note
I	**Phase 2025-2030**				
1	Ninh Son - Branch to Van Phong I Thermal Power Plant - Thuan Nam	4	x	18	New construction, connecting to 500 kV Ninh Son substation
2	Ninh Son - Chon Thanh	2	x	275	New construction, relieving power source capacity. Replace the 500 kV Thuan Nam - Chon Thanh transmission line approved in Document No. 1891/TTg-CN dated December 27, 2018 to facilitate investment, construction, management and operation.
3	Bac Ai Pumped Storage Hydropower – Ninh Son	2	x	25	New construction and synchronizing Bac Ai Pumped Storage Hydropower, replacing 500 kV Bac Ai Pumped Storage Hydropower – Branch to Van Phong - Thuan Nam line
4	Phuoc Hoa Pumped Storage Hydropower - Ninh Son	2	x	25	New construction, synchronized with Phuoc Hoa Pumped Storage Hydropower
5	Hong Phong - Branch to Vinh Tan - Song May	4	x	10	New construction, synchronized with the scale and progress of regional power sources
6	Son My - Bac Chau Duc	2	x	80	New construction, synchronized with Son My II Thermal Power Plant
7	Vinh Tan III Thermal Power Plant - Vinh Tan	2	x	1	New construction, synchronized with Vinh Tan III Thermal Power Plant
8	LNG Ca Na - Thuan Nam	2	x	30	New construction, synchronized with LNG Ca Na
9	Connecting Ninh Thuan 1 (relieving capacity to the South)	2	x	300	New construction and synchronized with Ninh Thuan Nuclear Power Plant 1. Consider connecting to Binh Duong 500kV Substation 1. In case of high power development in the South Central region, consider developing a transmission grid with voltage level of 765-1000 kV
10	Ninh Thuan 1 Nuclear Power Plant Connection	4	x	15	New construction, synchronize with Ninh Thuan 1 Nuclear Power Plant. Consider transition connection on 500kV Thuan Nam - Vinh Tan line.
11	Ninh Thuan 2 Nuclear Power Plant Connection	2	x	60	New construction, synchronize with Ninh Thuan 2 Nuclear Power Plant. Consider connection to Ninh Son 500kV Substation
12	Connecting Ninh Thuan 2 Nuclear Power Plant (relieving capacity to the South)	2	x	325	New construction and synchronize with Ninh Thuan 2 Nuclear Power Plant. Consider connecting to Binh Duong 2 500kV Station. In case of high power development in the South Central region, consider developing a transmission grid with voltage level of 765-^1000 kV.
13	NTB 1 - Hong Phong (*)	2	x	20	New construction, synchronize with the scale and progress of offshore wind power sources in the South Central region. The length, cross-section and direction of the line will be precisely determined during the project implementation phase, depending on the results of the actual sea survey.
14	Tay Ninh 1 – Branch to Chon Thanh - Duc Hoa	4	x	2	New construction, connecting to 500 kV Tay Ninh 1 substation

15	Tay Ninh 2 - Branch to Chon Thanh - Tay Ninh 1	2	x	30	New construction, connecting to 500 kV Tay Ninh 2 substation
16	Bac Chau Duc - Branch to Phu My - Song May and Phu My - Long Thanh	4	x	11	New construction and connecting to 500 kV Bac Chau Duc substation
17	Increasing the load capacity of the 500 kV Bac Chau Duc - Song May transmission line	1	x	58	Improve and enhance the ability to relieve regional power source capacity
18	Increasing the load capacity of the 500 kV Bac Chau Duc - Long Thanh - Song May transmission line	1	x	92	Improve and enhance the ability to relieve regional power source capacity
19	Increasing the load capacity of 500 kV Phu My - Nha Be and Phu My - Nhon Trach 4 Power Plant - Nha Be	2	x	43	Improve and enhance the ability to relieve regional power source capacity
20	Cu Chi – Branch to Chon Thanh - Duc Hoa	2	x	16	New construction and connecting to 500 kV Cu Chi substation
21	Binh Duong 1 - Branch to Song May - Tan Dinh	2	x	35	New construction, connecting to 500 kV Binh Duong 1 substation
22	Binh Duong 1 - Chon Thanh	2	x	17	New construction, create loop circuit to improve regional power supply reliability
23	Binh Duong 2 - Branch to Tay Ninh 1 - Chon Thanh	4	x	5	New construction, connect to 500 kV Binh Duong 2 switching station
24	Dong Nai 2 - Branch to Vinh Tan - Song May	4	x	5	New construction, transition on circuit 3,4 500 kV Vinh Tan - Song May branch - Tan Uyen line
25	Nhon Trach 4 Power Plant – Branch to Phu My - Nha Be	2	x	4	New construction, synchronize with Nhon Trach 4 Power Plant
26	Long Thanh – Branch to Bac Chau Duc - Song May	2	x	17	New construction, strengthening regional power transmission. Proposal to select appropriate cross-section for the 500 kV Bac Chau Duc - Song May transmission line after renovation to increase load capacity.
27	Duc Hoa - Chon Thanh	2	x	104	New construction, change the connection to My Tho - Chon Thanh
28	500 kV Duc Hoa - Phu Lam branch - Cau Bong (2nd circuit)	2	x	13	New construction, connect to Duc Hoa 500 kV station to relay on the remaining circuit of Phu Lam - Cau Bong 500 kV line
29	Long An – Branch to Nha Be - My Tho	2	x	1	New construction, connecting to 500 kV Long An substation
30	Increase the load capacity of 500 kV line Duc Hoa - Cau Bong	2	x	24	Upgrading to increase loading capacity, relieving capacity of LNG Bac Lieu and renewable energy sources in the Southwest
31	500 kV Tra Vinh 1 - Song Hau (*)	2	x	65	New construction, in case of high development of renewable energy sources in Tra Vinh province, on the basis of renewable energy sources allocated to localities according to Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025
32	500 kV Ben Tre - Long An (*)	2	x	55	New construction, connecting to Ben Tre 500 kV substation, change the connection to Da Phuoc 500 kV substation in the period 2031-2035
33	O Mon - Thot Not	2	x	35	New construction and strengthen the transmission grid in the Southwest region; relieving capacity of O Mon Power Center
34	Song Hau II Thermal Power Plant - Song Hau	2	x	1	New construction, synchronize with Song Hau II Thermal Power Plant

35	Thot Not - Duc Hoa	2	x	135	New construction, relieving LNG Bac Lieu capacity and renewable energy sources in the Southwest, consider switching the connection to Cau Bong to limit short circuit current
36	LNG Bac Lieu - Thot Not	2	x	130	New construction, synchronize with LNG Bac Lieu
37	500 kV Bac Lieu - LNG Bac Lieu Branch - Thot Not (*)	2	x	20	New construction, relieving renewable energy sources
38	500 kV Ca Mau – Branch to 500 kV Bac Lieu (*)	2	x	67	New construction, relieving renewable energy sources
39	500 kV Soc Trang - Long Phu (*)	2	x	40	New construction, relieving renewable energy
40	Reserve for the construction and renovation of 500 kV lines			450	Reserve for load growth and power source development
II	**Phase 2031-2035**				
1	500 kV Ninh Thuan 1 – Branch to Van Phong - Ninh Son (*)	2	x	50	New construction, synchronized with the scale and progress of regional power sources
2	500 kV Ninh Thuan 2 - Thuan Nam turn - Ninh Son (*)	2	x	50	New construction, synchronized with the scale and progress of regional power sources. Consider changing the connection to the South Central Coast HVDC Converter Station when the South Central - North HVDC transmission system appears.
3	Connection of HVDC Converter Station in South Central Coast			160	New construction, connecting to HVDC converter station in South Central Coast, consideration of connection to Ninh Thuan 1 and Ninh Thuan 2 power plants
4	Don Duong – Branch to Ninh Thuan 2 Nuclear Power Plant - Binh Duong 2	4	x	20	New construction, synchronized with Don Duong Industrial Zone
5	Hong Phong - Long Thanh (*)	2	x	130	New construction, synchronized with the scale and progress of regional power sources
6	NTB 2 - Branch to Hong Phong - Long Thanh (*)	4	x	25	New construction, synchronized with the scale and progress of offshore wind power sources in the South Central region. The length, cross-section and direction of the line will be precisely determined during the project implementation phase, depending on the results of the actual sea survey.
7	NTB 3 - Dong Nai 2 (*)	2	x	80	New construction, synchronized with the scale and progress of offshore wind power sources in the South Central region. The length, cross-section and direction of the line will be precisely determined during the project implementation phase, depending on the results of the actual sea survey.
8	Connecting 765-H000 kV South Central 1 Substation to the regional 500 kV grid			200	New construction, in case of high development of South Central power source
9	Connecting 765-H000 kV South Central 2 Substation to the regional 500 kV grid			200	New construction, in case of high development of South Central power source
10	500 kV Lam Dong – Branch to Ninh Son - Chon Thanh	4	x	10	New construction, connecting to 500 kV Lam Dong substation
11	500 kV Tay Ninh 3-500 kV Tay Ninh 2 (*)	2	x	20	New construction, relieving renewable energy sources
12	Loc Ninh - Chon Thanh (*)	2	x	60	New construction, relieving renewable energy sources
13	Long Dien - Branch to LNG Long Son - Bac Chau Duc	2	x	10	New construction, connecting to 500 kV Long Dien substation

14	LNG Long Son - Bac Chau Duc	2	x	36	New construction, synchronized with Long Son LNG, depending on power source progress
15	500 kV Dong Nai 4 - Branch to Song May - Tan Dinh (*)	2	x	15	New construction, relieving renewable energy
16	Da Phuoc - Branch to Phu Lam - Nha Be	2	x	8	New construction and connecting to 500 kV Da Phuoc station
17	Da Phuoc - Long An	2	x	10	New construction, change the connection to Ben Tre 500 kV substation
18	Thu Duc City - Long Thanh	2	x	25	New construction, connecting to 500 kV iThu Duc city station
19	Connecting 765-H000 kV Nam Bo 1 Station to the regional 500 kV grid	4	x	200	New construction, in case of high development of South Central power source
20	Connecting 765-H000 kV Nam Bo 2 Station to the regional 500 kV grid	4	x	200	New construction, in case of high development of South Central power source
21	Tien Giang -Branch to O Mon - My Tho	4	x	5	New construction and connecting to 500 kV Tien Giang substation
22	LNG Long An II - Long An	2	x	15	New construction, synchronize with LNG Long An II
23	Long An 2 - Branch to Song Hau - Duc Hoa	2	x	13	New construction, connecting to 500 kV Long An 2 substation
24	500 kV Tra Vinh 2 - Duyen Hai	4	x	1	New construction, relieving renewable energy
25	500 kV Tra Vinh 2 - Ben Tre	2	x	60	New construction, relieving renewable energy
26	Dong Thap - Tay Ninh 1	2	x	112	New construction
27	An Giang - Dong Thap	2	x	65	New construction
28	500 kV Bac Lieu - An Giang (*)	2	x	115	New construction
29	Reserved for the construction and renovation of 500 kV lines			500	Reserved for load growth and power source development

Table 13: List of newly built and renovated 220 kV substations in the Southern region

No.	Project	Capacity (MVA)	Note
I	**Phase 2025-2030**		
1	Bao Loc	500	Renovation and capacity improvement
2	Duc Trong	500	Renovation and capacity improvement
3	Ta Nang (*)	250	New construction, relieving renewable energy
4	Bao Lam	250	New construction, synchronize with Alumina factory in Lam Dong (according to the request in Document No. 23/SCT-QLNL dated January 4, 2025 of Lam Dong Provincial Department of Industry and Trade)
5	Da Huoai	250	New construction, synchronize with Alumina factory in Lam Dong (according to the request in Document No. 23/SCT-QLNL dated January 4, 2025 of Lam Dong Provincial Department of Industry and Trade)
6	Da Nhim Hydropower Plant	375	Renovation and capacity improvement
7	Phuoc Thai	750	Renovation and capacity improvement
8	Da Nhim switching station	Switching station	New construction
9	Ca Na	500	New construction
10	Dong Quan The	480	New construction, synchronize with specialized load
11	Ham Thuan Hydropower Plant	125	Renovation and capacity improvement
12	Dai Ninh Hydropower Plant	250	Renovation and capacity improvement
13	Ham Thuan Nam	500	New construction
14	Vinh Hao	500	Renovation and capacity improvement
15	Hoa Thang (*)	500	New construction
16	Cascaded Hong Phong 500 kV	500	New construction
17	Wind Power 1 Binh Thuan (*)	250	New construction, relieving renewable energy
18	Tan Son Nhat	500	New construction
19	Dam Sen	500	New construction
20	Thu Thiem	500	New construction
21	Binh Chanh 1	500	New construction
22	Ba Queo (Vinh Loc)	500	New construction
23	District 7	500	New construction
24	Nam Hiep Phuoc	500	New construction
25	District 9	500	New construction
26	Tay Bac Cu Chi	250	New construction
27	Phu Hoa Dong	250	New construction
28	Can Gio	500	New construction
29	Phuoc Long	500	Renovation and capacity improvement
30	East Binh Phuoc (*)	500	New construction, relieving renewable energy
31	Binh Phuoc Alumina	500	New construction, synchronize with Binh Phuoc Alumina factory (according to the request in Document No. 1058/UBND-TH dated March 11, 2025 of Binh Phuoc Provincial People's Committee)
32	Dong Xoai	250	New construction
33	Tan Bien	500	Renovation and capacity improvement
34	Phuoc Dong	500	New construction
35	Tay Ninh 3	250	New construction
36	Tan Dinh	750	Renovation and capacity improvement
37	Ben Cat 2	500	New construction
38	Tan Dinh 2	500	New construction
39	An Thanh (VSIP)	500	New construction

40	Binh My	500	New construction
41	BacTan Uyen	500	New construction
42	Lai Uyen	500	New construction
43	Phu Giao	500	New construction
44	Tri An Hydropower	500	Renovation and capacity improvement
45	Tam Phuoc	500	Renovation and capacity improvement
46	Thong Nhat	500	New construction
47	Nhon Trach Industrial Zone	500	New construction
48	Long Khanh	500	Renovation and capacity improvement
49	Ho Nai	500	New construction
50	Dau Giay	500	New construction
51	Bien Hoa	500	New construction
52	Dong Nai 3 (*)	750	New construction, relieving renewable energy
53	Dong Nai 4 (*)	750	New construction, relieving renewable energy
54	Ba Ria	250	Renovation and capacity improvement
55	Phu My 3 Industrial Zone	500	New construction
56	Phuoc Thuan (Dat Do)	500	New construction
57	Long Son	250	New construction
58	Can Duoc	500	Renovation and capacity improvement
59	Duc Hoa 2	500	New construction
60	Cascaded Duc Hoa 500 kV	500	New construction
61	Ben Luc 2 (Duc Hoa 3)	500	New construction and replace Duc Hoa 3 220 kV substation in Power Plan VIII (according to EVNNPT's proposal in Document No. 781/EVNNPT-KH+DT dated February 21, 2025)
62	Tan Lap	250	New construction
63	Kien Tuong	250	New construction
64	Lap Vo	250	New construction
65	Hong Ngu	250	New construction
66	Long Xuyen	500	Renovation and capacity improvement
67	Cho Moi	250	New construction
68	Chau Thanh (An Giang)	250	New construction
69	Cai Lay	500	Renovation and capacity improvement
70	My Tho	500	Renovation and capacity improvement
71	Tan Phuoc (Cai Be)	500	New construction
72	Go Cong	500	New construction
73	Vinh Long 3	250	New construction
74	Mo Cay	500	Renovation and capacity improvement
75	Binh Dai (*)	500	New construction, relieving renewable energy
76	Thanh Phu (*)	500	New construction, relieving renewable energy
77	An Bien (Vinh Thuan)	500	New construction
78	Phu Quoc	500	New construction
79	Tra Noc	500	Renovation and capacity improvement
80	O Mon	500	Renovation and capacity improvement
81	Chau Thanh (Hau Giang)	500	Renovation and capacity improvement
82	Tra Vinh	500	Renovation and capacity improvement
83	Tra Vinh 3	450	New construction, synchronized with the development progress of specialized loads
84	Tran De (*)	500	New construction, relieving renewable energy
85	Bac Lieu	375	Renovation and capacity improvement
86	Gia Rai	250	Renovation and capacity improvement
87	Hoa Binh (*)	500	New construction
88	Bac Lieu 3 (*)	500	New construction, relieving renewable energy
89	Ca Mau 3	450	New construction, synchronized with the development progress of specialized load
90	Nam Can	500	New construction
91	Substation reserve capacity for	3500	Reserve for new 220 kV substation construction

	load growth and source development in the South		and capacity upgrade
92	Install short-circuit current limiting reactors including but not limited to the busbars of 500 kV Vinh Tan, Bac Chau Duc, and Ba Queo substations (220 kV Ba Queo - Dam Sen line reactors)		Limit short circuit current
93	Flexible busbar diagram renovation, busbar segmentation including but not limited to 500 kV Duc Hoa, O Mon, Ninh Phuoc, Long Thanh, Cu Chi substations		Limit short circuit current, increase power supply reliability
94	Projects to improve the ability to control and operate power stations and power systems		Including but not limited to projects: Replacement, installation of reactors, capacitors, SVC, SVG, FACTS equipment, BESS, synchronous compensators...; expand feeder bays in substation, renovate to increase capacity, improve graphs of substations in a flexible manner; install short-circuit current limiters, replace and upgrade devices to resist short-circuit currents, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.
II	**Phase 2031-2035**		
1	Dalat	250	New construction
2	220 kV Ninh Thuan 1 (*)	750	New construction, relieving renewable energy
3	220 kV Ninh Thuan 2 (*)	750	New construction, relieving renewable energy
4	220 kV Ninh Thuan 3 (*)	750	New construction, relieving renewable energy
5	Wind Power 1 Binh Thuan (*)	500	Renovation and capacity improvement
6	Hong Liem (*)	250	New construction, relieving renewable energy
7	Tay Bac Cu Chi	500	Renovation and capacity improvement
8	Phu Hoa Dong	500	Renovation and capacity improvement
9	Binh Chanh 2	500	New construction
10	Hoc Mon 2	500	New construction
11	Cascaded Thu Duc City 500 kV	750	New construction
12	Cascaded Da Phuoc 500 kV	750	New construction
13	Dong Binh Phuoc (*)	750	Renovation and capacity improvement
14	Dong Xoai	500	Renovation and capacity improvement
15	Hon Quan	250	New construction
16	220 kV Binh Phuoc 1 (*)	750	New construction, relieving renewable energy
17	220 kV Binh Phuoc 2 (*)	750	New construction, relieving renewable energy
18	Tay Ninh	750	Renovation and capacity improvement
19	Tay Ninh 2	750	Renovation and capacity improvement
20	Ben Cau	500	New construction
21	Tay Ninh 3	500	Renovation and capacity improvement
22	Tan Chau 1 (*)	500	New construction, relieving renewable energy
23	My Phuoc	750	Renovation and capacity improvement
24	Uyen Hung	750	Renovation and capacity improvement
25	Bon Cat	750	Renovation and capacity improvement
26	Tan Uyen	750	Renovation and capacity improvement
27	Ben Cat 2	750	Renovation and capacity improvement
28	Tan Dinh 2	750	Renovation and capacity improvement
29	An Thanh (VSIP)	750	Renovation and capacity improvement
30	Binh My	750	Renovation and capacity improvement
31	Ben Cat 3	750	New construction

32	Bau Bang	750	New construction
33	Cascaded Binh Duong 2 500 kV	750	New construction
34	Long Thanh	750	Renovation and capacity improvement
35	An Phuoc	750	Renovation and capacity improvement
36	Tam Phuoc	750	Renovation and capacity improvement
37	Nhon Trach Industrial Zone	750	Renovation and capacity improvement
38	Bien Hoa	750	Renovation and capacity improvement
39	Dong Nai 3 (*)	1000	Renovation and capacity improvement
40	Dong Nai 4 (*)	1000	Renovation and capacity improvement
41	Cascaded Long Thanh 500 kV	750	New construction
42	Long Thanh 2 Industrial Zone	750	New construction
43	Cascaded Dong Nai 2 500 kV	750	New construction
44	Long Son	500	Renovation and capacity improvement
45	Phu My City	500	New construction
46	Vung Tau 2	500	New construction
47	Cascaded Duc Hoa 500 kV	750	Renovation and capacity improvement
48	Tan Lap	500	Renovation and capacity improvement
49	Can Giuoc	500	New construction
50	Kien Tuong	500	Renovation and capacity improvement
51	Cascaded Long An 2 500 kV	500	New construction
52	Lap Vo	500	Renovation and capacity improvement
53	Hong Ngu	500	Renovation and capacity improvement
54	Cascaded Dong Thap 500 kV	250	New construction
55	Cho Moi	500	Renovation and capacity improvement
56	Chau Thanh (An Giang)	500	Renovation and capacity improvement
57	Cascaded An Giang 500 kV	250	New construction
58	Tan Phuoc (Cai Be)	750	Renovation and capacity improvement
59	Cascaded Tien Giang 500 kV	500	New construction
60	Vinh Long 3	500	Renovation and capacity improvement
61	Ba Tri	500	New construction
62	Vinh Quang	250	New construction
63	Thot Not	500	Renovation and capacity improvement
64	Vi Thanh	250	New construction
65	Duyen Hai	500	Renovation and capacity improvement
66	Bac Lieu	500	Renovation and capacity improvement
67	Gia Rai	500	Renovation and capacity improvement
68	Bac Lieu 4 (*)	500	New construction, relieving renewable energy
69	Ca Mau 4	250	New construction, relieving renewable energy
70	Substation reserve capacity for load growth and source development in the South	3500	Reserve for new 220 kV substation construction and capacity upgrade
71	Projects to improve the ability to control and operate power stations and power systems		Including but not limited to projects: Replacement, installation of reactors, capacitors, SVC, SVG, FACTS equipment, BESS, synchronous compensators...; expand feeder bays in substation, renovate to increase capacity, improve graphs of substations in a flexible manner; install short-circuit current limiters, replace and upgrade devices to resist short-circuit currents, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.

Table 14: List of renovated and newly constructed 220 kV lines in the Southern region

No.	Line name	Number of circuits	x	km	Note
I	**Phase 2025-2030**				
1	2nd Circuit Bao Loc - Song May	2	x	118	Renovate 1st circuit, build 2nd circuit, improve reliability
2	220 kV Da Nhim Switching Station – Branch to Thap Cham - Da Nhim	2	x	1	New construction, synchronized with 220 kV Da Nhim switching station
3	220 kV Da Nhim switching station - Duc Trong - Di Linh	2	x	96	New construction, relieving the power source in the area. Replacing the project to renovate the 220 kV Da Nhim - Duc Trong - Di Linh line from 01 circuit to 02 circuits due to difficulties in cutting off power to construct the existing line and not being able to expand the 220 kV Da Nhim substation.
4	Dong Nai 2 Hydropower - Branch to Duc Trong - Di Linh and change the connection (Duc Trong - Dong Nai 2 Hydropower instead of Duc Trong - Di Linh), renovate and increase the load capacity of 220 kV transmission line Dong Nai 2 Hydropower - Di Linh	1	x	15	New construction and renovation, forming the 220 kV single circuit Duc Trong - Dong Nai 2 - Di Linh substation to replace the 220 kV double circuit Dong Nai 2 - Di Linh substation
5	Duc Trong - Branching to 220 kV Da Nhim switching station - Di Linh	2	x	1	New construction, relieving regional power source
6	Bao Lam - Bao Loc	2	x	25	New construction, synchronized with the progress of the Alumina factory in Lam Dong
7	Da Huoai - Branch to Bao Loc - Dinh Quan	2	x	2	New construction, synchronized with the progress of the Alumina factory in Lam Dong
8	Duc Trong Wind Power - Da Nhim - Duc Trong (*)	2	x	1	New construction, synchronized with Duc Trong wind power plant. The location and adjusted connection plan of Duc Trong wind power plant are proposed in Document No. 3225/BCT-DL dated June 9, 2022, Document No. 4777/BCT-DL dated August 11, 2022, Document No. 6660/BCT-DL dated October 26, 2022 of the Ministry of Industry and Trade and Document No. 835/TTg-CN dated September 22, 2022 of the Prime Minister. Synchronously operate with the 220 kV transmission line of Da Nhim - Duc Trong - Di Linh switching station.
9	Ta Nang – Branch to Duc Trong - Di Linh (*)	2	x	20	New construction and connect to 220 kV Ta Nang substation on 220 kV Duc Trong - Di Linh line (new construction circuit). Synchronized with the scale and progress of regional power sources
10	Connection of Da R'Sal hydropower plant (**)	1	x	30	New construction, synchronize with power source. Document No. 23/SCT-QLNL dated January 4, 2025 of Lam Dong Provincial Department of Industry and Trade proposed

					connecting Da R'Sal Power Plant to 220 kV TC, 220 kV Buon Tua Srah Hydropower. The specific connection plan will be finalized during the project implementation phase.
11	500 kV Ninh Son – Branch to Thap Cham - Ninh Phuoc	4	x	27	New construction and connect to 500 kV Ninh Son substation
12	500 kV Ninh Son - Ninh Phuoc	2	x	47	New construction, replace 220 kV Ninh Phuoc - Vinh Tan line due to difficulties in route direction
13	500 kV Ninh Son - 220 kV Da Nhim Switching Station	2	x	18	New construction, relieving regional power source
14	Thap Cham - 220 kV Da Nhim switching station	2	x	46	New construction, relieving regional power source
15	500 kV Vinh Tan-Ca Na	2	x	14	New construction, connecting to 220 kV Ca Na station
16	Phuoc Huu Wind Power - 220 kV Ninh Phuoc (*)	1	x	2	New construction, connecting to Phuoc Huu Wind Power, replacing the 110 kV Phuoc Huu Wind Power line - 110 Ky Ninh Phuoc as approved in Decision No. 3768/QD-BCT dated July 27, 2011, as the 110 kV grid is not capable of relieving. The 220 kV Phuoc Huu Wind Power step-up station has a capacity of 63 MVA.
17	Dong Quan The – Branch to Vinh Tan - 220 kV Quan The switching station	2	x	1	New construction, synchronized with the development progress of specialized load
18	Dong Quan The - Ca Na	1	x	7	New construction, synchronized with the development progress of specialized load
19	Da Nhim Phase 2 Hydro Power Plant Expansion - 220 kV Da Nhim Distribution Yard	1	x	1	New construction, synchronized with power source. Proposed plan in Document No. 862/EVN-KH of EVN dated February 11, 2025. Specific connection plan is finalized during project implementation phase.
20	Ham Tan - Branch to Phan Thiet - Chau Duc (2nd circuit)	2	x	6	New construction, connecting to Ham Tan 220 kV station to relay on the remaining circuit of Phan Thiet - Tan Thanh 220 kV line
21	Ham Thuan Nam - Branch to Phan Thiet - Ham Tan	4	x	4	New construction and connecting to 220 kV Ham Thuan Nam substation
22	Hoa Thang - Branch to Phan Thiet - Phan Ri	2	x	7	New construction, connecting to 220 kV Hoa Thang substation
23	Increasing load capacity of Ham Thuan - Da My - Xuan Loc	2	x	95	Rennovate to increase load capacity
24	Increase Phan loading capacity Thiet - Ham Thuan	1	x	55	Rennovate to increase load capacity
25	Phuoc Thai - Branch to Vinh Tan - Thap Cham (2nd circuit)	2	x	3	New construction, connecting to Phuoc Thai 220 kV station to relay on the remaining circuit of Vinh Tan - Thap Cham 220 kV line, relieving power source in the area
26	Hong Phong - Branch to Phan Thiet - Phan Ri	2	x	1	New construction, synchronized with the scale and progress of regional power sources
27	Wind Power 1 Binh Thuan - Branch to Vinh Tan - Phan Thiet (*)	2	x	4	New construction, synchronized with the scale and progress of regional power sources
28	Increasing load capacity of Phan Ri - Phan Thiet	2	x	52	Renovating to increase load capacity, unifying cross-section on the entire 220 kV Phan Ri - Phan Thiet line to relieve regional

					power sources
29	Phan Ri - 500 kV Hong Phong	2	x	16	New construction, increased capacity to relieve regional power
30	500 kV Hong Phong - Phan Ri branch - Phan Thiet	4	x	5	New construction and connect to 500 kV Hong Phong station
31	500 kV Son My – Branch to Ham Tan - Phuoc Thuan (Dat Do)	4	x	4	New construction
32	Increasing load capacity of the Binh Long - Chon Thanh	2	x	32	Improve load capacity and relieve regional power sources
33	Tan Bien - Tay Ninh	2	x	25	New construction
34	500 kV Tay Ninh 1 – Branch to Tay Ninh 2 - Trang Bang	4	x	8	New construction
35	500 kV Tay Ninh 1 - Phuoc Dong	2	x	8	New construction
36	Binh Phuoc Alumina – Branch to Phuoc Long - Aluminum Electrolysis	2	x	15	New construction, synchronize with Binh Phuoc Alumina factory (according to the request in Document No. 1058/UBND-TH dated March 11, 2025 of Binh Phuoc Provincial People's Committee)
37	Dong Xoai - Chon Thanh	2	x	20	New construction
38	Binh Long - Chon Thanh (3rd and 4th circuit)	2	x	32	New construction, relieving regional power source
39	Dong Binh Phuoc - Branch to Binh Long - Aluminum electrolysis (*)	4	x	12	New construction, synchronized with the scale and progress of regional power sources
40	Increasing the load capacity of the 220 kV Chon Thanh 500 kV - My Phuoc line	2	x	45	Improve load capacity and relieve regional power sources
41	Increasing the load capacity of the 220 kV My Phuoc - Tan Dinh 500 kV line	2	x	17	Improve load capacity and relieve regional power sources
42	500 kV Tay Ninh 2 - Branch to Dau Tieng Lake Solar Power - Tay Ninh	4	x	3	New construction, connecting to 220 kV side of 500 kV Tay Ninh 2 station
43	500 kV Tay Ninh 2 - Tay Ninh (change the connection to Tan Bien)	2	x	6	New construction, connecting to 220 kV side of 500 kV Tay Ninh 2 station
44	Tay Ninh 3 - 500 kV Tay Ninh 2	2	x	16	New construction
45	Increase Phu My - Long Thanh load capacity	2	x	25	Upgrade to increase load capacity
46	Increase Phu My - Tan Thanh load capacity	2	x	11	Upgrade to increase load capacity
47	Phu My 3 Industrial Zone - Branch to Tan Thanh - Chau Duc	4	x	1	New construction
48	500 kV Bac Chau Duc – Branch to Chau Duc - Tan Thanh	4	x	10	New construction
49	Phuoc Thuan (Dat Do) - Branch to Phan Thiet - Tan Thanh and Ham Tan - Tan Thanh	4	x	6	New construction
50	Long Son - Branch to Chau Duc - Phu My 3 Industrial Zone	2	x	8	New construction, consider choosing a cross-section suitable for the cross-section of Chau Duc 220 kV line - Phu My 3 Industrial Zone after renovation
51	Chau Duc - Branch to Ham	2	x	2	New construction, completion of connection

	Tan - Tan Thanh (2nd circuit)				of Chau Duc 220kV substation to 02 circuits of Ham Tan - Tan Thanh 220kV transmission line
52	Increasing Tan Thanh - Vung Tau load capacity	2	x	30	Upgrade to increase load capacity
53	Increasing the load capacity of Ham Tan - Chau Duc and Ham Tan - Da Bac Solar Power - Chau Duc	2	x	60	Improve load capacity and relieve regional power sources
54	Cat Lai - Tan Cang	2	x	15	New construction
55	Binh Chanh 1 - Cau Bong	2	x	21	New construction, being a part of the 220-110 kV Cau Bong - Binh Tan transmission line project
56	Tan Son Nhat - Thuan An	2	x	15	New construction
57	Tan Son Nhat - Turn Hoc Mon - Thu Duc	2	x	9	New construction
58	Phu Lam - Dam Sen	2	x	6	New construction
59	Dam Sen - Ba Queo - Tan Son Nhat	2	x	10	New construction
60	500 kV Long Thanh – Cong Nghe Cao	2	x	25	New construction
61	500 kV Cu Chi – Branch to Cu Chi - Trang Bang	4	x	1	New construction, change the connection to 220 kV Cu Chi 500 kV - Trang Bang and Cu Chi 500 kV - Tan Dinh transmission lines
62	500 kV Cu Chi – Branch to Cu Chi - Tan Dinh	2	x	1	New construction, change the connection to 220 kV Cu Chi 500 kV - 220 kV Cu Chi
63	Thu Thiem - Branch to Cat Lai - Tan Cang	4	x	1	New construction
64	District 7 - Nha Be and expansion of 220 kV compartment at 500 kV Nha Be station	2	x	6	New construction, connecting to 220 kV station in District 7, in case the 220 kV compartment at 500 kV station in Nha Be cannot be expanded, consider connecting District 7 – Branch to Nhon Trach 1&2 Thermal Power - Nha Be (2x7km), using large cross-section
65	District 9 -Branch to Long Thanh – Cong Nghe Cao	4	x	5	New construction
66	LNG Hiep Phuoc Phase I – Branch to Phu My - Can Duoc	4	x	3	New construction, synchronize with LNG Hiep Phuoc phase I
67	Increasing the load capacity of the 220 kV Phu My - Can Duoc - My Tho-My Tho 500 kV transmission line	2	x	112	Upgrade to increase loading capacity, synchronize with LNG Hiep Phuoc phase I
68	Increase Phu My - Tan Thanh load capacity	2	x	11	Upgrade to increase load capacity
69	Nam Hiep Phuoc - Branch to Phu My - Can Duoc	4	x	2	New construction, connection to Nam Hiep Phuoc 220 kV station. Proposal to select suitable cross-section for Phu My - Can Duoc 220 kV line after renovation
70	Can Gio - Branch to Phu My - Nam Hiep Phuoc	2	x	28	New construction
71	Ben Cat 2 - Branch to Tan Dinh - Cu Chi	4	x	1	New construction
72	Ben Cat 2 - Branch to Chon Thanh - Ben Cat	2	x	20	New construction and transition connection to 01 circuit of 220 kV Chon Thanh - Ben Cat transmission line
73	Tan Dinh 2 - Branch to My Phuoc - Ben Cat	4	x	11	New construction
74	500 kV Binh Duong 1 –	4	x	40	New construction, connect to 500 kV Binh

	Branch to Uyen Hung - Song May				Duong 1 substation
75	An Thanh (VSIP) – Branch to Tan Uyen - Thuan An	4	x	3	New construction
76	Binh My - Branch to Binh Duong 1 - Song May	4	x	3	New construction
77	Lai Uyen - Branch to Chon Thanh - Ben Cat	4	x	1	New construction
78	Bac Tan Uyen - Branch to Binh My - Song May	2	x	7	New construction
79	Song May - Tam Phuoc	2	x	14	New construction
80	500 kV Dong Nai 2 – Branch to Xuan Loc - Long Thanh	4	x	12	New construction
81	Nhon Trach 3 Power Plant – Branch to My Xuan - Cat Lai	2	x	10	New construction , synchronize with Nhon Trach 3 Power Plant; replace Nhon Trach 3 Power Plant - Cat Lai Line (connection to Thu Duc) due to difficulties in the construction direction of the line
82	Nhon Trach 3 Power Plant - 500 kV Long Thanh	2	x	44	New construction, synchronize with Nhon Trach 3 Power Plant
83	Nhon Trach Industrial Zone - Branch to Nhon Trach 3 Power Plant - 500 kV Long Thanh	4	x	3	New construction, synchronize with the 220 kV station of Nhon Trach Industrial Zone. In case Nhon Trach 3 Power Plant is behind schedule, consider building the 220 kV transmission line of Nhon Trach - Long Thanh Industrial Zone first.
84	Increasing the load capacity of Song May - Long Binh (1st circuit)	1	x	16	Upgrade to increase load capacity
85	Increasing the load capacity of Song May - Long Binh (2nd circuit)	1	x	25	Upgrade to increase load capacity
86	Thong Nhat - Branch to Bao Loc – Song May	4	x	2	New construction
87	Increasing the load capacity of Tan Dinh - Binh Hoa loading capacity	2	x	11	Upgrade to increase load capacity
88	Tri An Hydropower Plant Expansion - Tri An Hydropower Plant	2	x	1	New construction, synchronize with Tri An Hydropower Plant Expansion
89	Tay Bac Cu Chi - Cu Chi 500 kV	2	x	12	New construction
90	Binh Chanh 1 - Duc Hoa	2	x	10	New construction
91	Phu Hoa Dong - Branch to Cu Chi - Cau Bong	4	x	5	New construction
92	Increase the load capacity of Cau Bong - Cu Chi	2	x	22	Upgrade to increase load capacity
93	Increase the load capacity of Cau Bong - Binh Tan - Phu Lam	2	x	34	Upgrade to increase load capacity
94	Increase load capacity of Thu Duc - Tan Uyen - Long Binh	2	x	44	Upgrade to increase load capacity, consider the appropriate load capacity of the existing underground cable section
95	Tan Dinh 2 - Binh My	2	x	14	New construction
96	Bien Hoa – Branch to Tan Uyen - Long Binh	4	x	1	New construction
97	Dau Giay - 500 kV Dong Nai 2	2	x	30	New construction
98	Dau Giay - 500 kV Long Thanh	2	x	12	New construction

99	220 kV Dong Nai 3 - Tan Uyen (*)	2	x	55	Synchronize with regional power source scale and progress
100	220 kV Dong Nai 4 - Uyen Hung(*)	2	x	31	Synchronize with regional power source scale and progress
101	Increasing the load capacity of 220 kV Long Thanh - An Phuoc - Tam Phuoc	2	x	16	Upgrade to increase load capacity. Recommended to use large cross-section phase wires
102	Increasing the load capacity of 500 kV Long Thanh - 220 kV Long Thanh	2	x	19	Upgrade to increase load capacity
103	Ho Nai -Branch to Song May - Tam Phuoc	4	x	1	New construction
104	Phu Giao - Branch to Binh Duong 1 - Uyen Hung	4	x	2	New construction
105	Increase load capacity of Long An - Ben Luc	2	x	14	Upgrade to increase load capacity
106	Go Cong - Can Duoc	2	x	27	New construction
107	500 kV Duc Hoa – Branch to Phu Lam - Long An (2nd circuit)	2	x	20	New construction, connecting to 220 kV side to 500 kV Duc Hoa station, transitioning on the remaining circuit of 220 kV Phu Lam - 500 kV Long An transmission line
108	Duc Hoa 2 – Branch to 500 kV Duc Hoa - Duc Hoa 1	4	x	10	New construction
109	Ben Luc 2 (Duc Hoa 3) is connected to the 220 kV Duc Hoa 500 kV - Phu Lam line and the 220 kV Duc Hoa 500 kV - Ben Luc line.	4	x	6	New construction, replace Duc Hoa 3 220 kV with transition connection on 220 kV Duc Hoa 500 kV – Branch to Phu Lam - Long An line in Power Development Planning VIII
110	Hanging 3rd and 4th circuit of 220 kV Duc Hoa 500 kV - Duc Hoa 1 line	2	x	25	Consider transferring connection to 220 kV Tay Bac Cu Chi station
111	500 kV Long An – Branch to Can Duoc - Phu My	4	x	1	New construction
112	Increasing load capacity of Four-Wheel Drive - Phu Lam	2	x	28	Upgrade to increase load capacity
113	Tan Lap - Branch to 500 kV Duc Hoa - Long An	4	x	9	New construction
114	Kien Tuong - Tan Lap	2	x	40	New construction. In case Tan Lap 220 kV substation comes into operation behind schedule, invest first in Kien Tuong 220 kV - Duc Hoa 500 kV - Long An line (2x50 km)
115	LNG Long An I - 500 kV Long An	2	x	18	New construction, synchronized with LNG Long An I, depending on power source progress; proposed design of 220 kV LNG Long An I distribution yard with flexible busbar segment diagram.
116	LNG Long An I - Ben Luc	2	x	30	New construction, synchronized with LNG Long An I, depending on power source progress; proposed design of 220 kV LNG Long An I SPP with flexible busbar segment diagram
117	Tan Phuoc (Cai Be) – Branch to 500 kV My Tho - Long An	4	x	7	New construction
118	My Tho- Branch to 500 kV My Tho - Can Duoc (2nd circuit)	2	x	4	New construction, connecting to 220 kV My Tho station to relay on the remaining circuit of 220 kV My Tho - 500 kV Can Duoc line
119	Can Duoc – Branch to Phu My 500 kV - My Tho (2nd circuit)	2	x	5	New construction, connecting to Can Duoc 220 kV station to relay on the remaining circuit of Phu My 220 kV - My Tho 500 kV

					transmission line
120	Long My 1 Wind Power - Branch to Ca Mau Industrial Zone - O Mon (*)	2	x	1	New construction, synchronize with Long My 1 Wind Power
121	Vinh Long 3 - Branch to Vinh Long 2 - Tra Vinh	4	x	1	New construction
122	Ben Tre - Binh Dai (*)	2	x	50	New construction, synchronized with the scale and progress of regional power sources
123	Thanh Phu - Branch to Hai Phong Wind Power - Mo Cay (*)	4	x	3	New construction, synchronized with the scale and progress of regional power sources. In case Hai Phong power plant is behind schedule, it is necessary to build the 220 kV Thanh Phu - Mo Cay double-circuit transmission line in advance, synchronized with the 220 kV Thanh Phu station, Hai Phong Wind Power connects to the 220 kV Thanh Phu station via the 220 kV double-circuit. Consider choosing a large cross-section to relieve renewable energy.
124	Mo Cay - 500 kV My Tho (*)	2	x	42	New construction, synchronized with the scale and progress of regional power sources
125	An Bien (Vinh Thuan) - Branch to Ca Mau Thermal Power Plant - Rach Gia	2	x	17	New construction
126	Tra Vinh 3 - 500 kV Duyen Hai	2	x	3	New construction, synchronized with Tra Vinh 3 220 kV station
127	No. 19 Ben Tre Wind Power- Binh Dai (*)	2	x	12	New construction and synchronize with No. 19 Ben Tre Wind Power, relieve the capacity of No. 19 Ben Tre Wind Power, No. 20 Ben Tre Wind Power. Adjust the plan compared to Document 911/TTg-CN, replace the 220 kV No. 19 Ben Tre Wind Power - Ben Tre, about 50km long due to difficulty in expanding the bypass at Ben Tre 220 kV station. Actual length is about 0.03km.
128	Hai Phong - Mo Cay Road (*)	2	x	50	New construction, synchronize with Hai Phong Wind Power, connection plan is approved in Document 911/TTg-CN dated July 15, 2020
129	Dong Thanh 1 - 500 kV Duyen Hai (*)	2	x	4	New construction, synchronize with Dong Thanh 1 Wind Power, relieve the capacity of Dong Thanh 1 Wind Power, Dong Thanh 2 Wind Power. Adjust the plan compared to Document 911/TTg-CN, replace the 220 kV Dong Thanh 1 Wind Power – Branch to Dong Hai 1 Branch - Duyen Hai 500 kV to avoid overloading the 220 kV Dong Hai 1 Wind Power - Trung Nam Tra Vinh Solar Power - Duyen Hai 500 kV.
130	Thang Long Wind Power- 220 kV Duyen Hai (*)	1	x	12	New construction, synchronize with Thang Long Wind Power, connection plan is approved in Document 911/TTg-CN dated June 24, 2020
131	500 kV Ben Tre – Branch to Binh Dai - Ben Tre	4	x	16	New construction and connect to 500 kV Ben Tre substation
132	500 kV Ben Tre – Branch to Thanh Phu - Mo Cay	4	x	10	New construction and connect to 500 kV Ben Tre substation
133	500 kV Thot Not-Lap Vo	2	x	22	New construction
134	Hong Ngu - Chau Doc	2	x	40	New construction

135	Lap Vo - Hong Ngu	2	x	55	New construction
136	Sa Dec - Branch to O Mon - Vinh Long (2nd circuit)	2	x	1	New construction, connecting to 220 kV Sa Dec station to relay on the remaining circuit of 220 kV O Mon - Vinh Long line
137	Long Xuyen - Branch to Chau Doc - Thot Not (2nd circuit)	2	x	1	New construction, connecting to 220 kV Long Xuyen station to relay on the remaining circuit of 220 kV Chau Doc - Thot Not line
138	Chau Thanh (An Giang) – Branch to Long Xuyen - Chau Doc	4	x	2	New construction
139	Cho Moi - Chau Thanh (An Giang)	2	x	9	New construction
140	Rennovating 220 kV Chau Doc - Kien Binh single-circuit line into double-circuit line	2	x	75	Converting single-circuit line into double-circuit line, increasing load capacity
141	Tran De - 500 kV Long Phu	2	x	24	New construction, synchronized with the scale and progress of regional power sources
142	Vinh Chau – Branch to Long Phu - Soc Trang (2d circuit)	2	x	20	New construction, connecting to 220 kV Vinh Chau station to the remaining circuit of 220 kV Long Phu - Soc Trang line
143	Soc Trang 4 Wind Power - Vinh Chau (*)	2	x	5	New construction, synchronize with Soc Trang 4 Wind Power, connection plan is approved in Document 911/TTg-CN dated June 24, 2020
144	Phu Cuong 1A, 1B Wind Power - Vinh Chau (*)	2	x	22	New construction, synchronize with Phu Cuong 1A and 1B Wind Power; connection plan is approved in Document 911/TTg-CN dated June 24, 2020
145	Bac Lieu Phase 3 Wind Power - Bac Lieu (*)	2	x	18	New construction, synchronize with Bac Lieu Phase 3, connection plan approved in Decision No. 209/QD-TTg dated February 9, 2018
146	220 kV double circuit line connecting 220 kV Bac Lieu substation, transitioning onto 220 kV Ca Mau ND line - Soc Trang	2	x	5	New construction, relieving regional power sources; exact name of the project is approved in Document No. 441/TTg-CN dated April 16, 2020 "Double-circuit 220 kV transmission line connecting Bac Lieu 220 kV substation, transitioning on Ca Mau - Bac Lieu thermal power line"
147	Hoa Binh - Branch to Gia Rai - Bac Lieu	2	x	13	New construction, connecting to 220 kV Hoa Binh station (Bac Lieu province) to transfer 220 kV Gia Rai - Bac Lieu line, relieving power source in the area
148	Hoa Binh connects to the 220 kV line connecting to Hoa Binh 5 Wind Power	4	x	5	New construction and connecting to 220 kV Hoa Binh station (Bac Lieu province), relieving power shortage in the area
149	Bac Lieu 3 - 500 kV Bac Lieu (*)	2	x	30	New construction, synchronized with the scale and progress of regional power sources
150	500 kV Bac Lieu - Gia Rai branch - Hoa Binh	4	x	6	New construction, synchronize with 500 kV Bac Lieu station
151	500 kV Bac Lieu - Hoa Binh	2	x	18	New construction, relieving renewable energy
152	Ca Mau - Nam Can	2	x	58	New construction
153	Ca Mau 3 – Branch to Ca Mau - Nam Can	2	x	26	New construction, synchronize with 220 kV Ca Mau 3 station
154	Ca Mau 1 Wind Power Cluster - Ca Mau (*)	2	x	52	New construction, synchronize with Ca Mau 1 Wind Power Cluster
155	500 kV Ca Mau – Branch to	4	x	8	New construction

	Nam Can - Ca Mau				
156	500 kV Ca Mau - Branch to Ca Mau 1 - Ca Mau	4	x	8	New construction
157	NB 1 - Vung Tau (*)	2	x	3	New construction, synchronized with scale and progress of offshore wind power sources in the South. The length, cross-section and route of the power line will be determined during the project implementation phase, depending on the results of the actual sea survey.
158	NB 2 - Ben Tre 500kV (*)	2	x	10	New construction, synchronized with the scale and progress of offshore wind power sources in the South. The length, cross-section and direction of the line will be precisely determined during the project implementation phase, depending on the results of the actual sea survey.
159	NB 3 - 500 kV Duyen Hai (*)	2	x	10	New construction, synchronized with the scale and progress of offshore wind power sources in the South. The length, cross-section and direction of the line will be precisely determined during the project implementation phase, depending on the results of the actual sea survey.
160	Connection to 220kV Phu Quoc Substation	2	x	19	Constructing a new 220kV transmission line from Phu Quoc 220kV substation to connect to the existing Kien Binh - Phu Quoc 220kV transmission line, synchronized with Phu Quoc 220kV substation
161	Estimated volume of connection of renewable energy sources			500	New construction, relieving renewable energy
162	Reserve for arising costs of 220 kV transmission line renovation and new construction			450	Reserve for load growth and power source development
II	**Phase 2031-2035**				
1	Hong Liem - 500 kV Hong Phong (*)	2	x	6	New construction, relieving renewable energy sources
2	Da Lat - 220 kV Da Nhim Switching Station	2	x	30	New construction
3	Increasing the load capacity of Di Linh - Bao Loc	2	x	34	Rennovate to increase load capacity
4	220 kV Ninh Thuan 1- 500 kV Ninh Thuan 1 (*)	2	x	15	New construction, relieving renewable energy sources
5	220 kV Ninh Thuan 2 - 500 kV Ninh Thuan 1 (*)	2	x	15	New construction, relieving renewable energy sources
6	220 kV Ninh Thuan 3 - 500 kV Ninh Thuan 2 (*)	2	x	15	New construction, relieving renewable energy sources
7	Tan Chau 1 - Tan Bien (*)	2	x	16	New construction, synchronized with the scale and progress of regional power sources
8	Ben Cau - 500 kV Tay Ninh 1	2	x	12	New construction
9	Hon Quan - Branch to Binh Long - Chon Thanh	2	x	4	New construction
10	220 kV Binh Phuoc 1 - 500 kV Loc Ninh (*)	2	x	15	New construction, relieving renewable energy sources
11	220 kV Binh Phuoc 2 - 500 kV Loc Ninh (*)	2	x	15	New construction, relieving renewable energy sources
12	Phu My City - Branch to Phu	4	x	2	Rennovate to increase load capacity

	My - Ba Ria				
13	Phu My City - Bac Chau Duc 500 kV	2	x	30	New construction
14	Long Dien 500 kV - Vung Tau 2	2	x	13	New construction, connecting to 500 kV Long Dien substation
15	Long Dien 500 kV - Branch to Phu My City - Vung Tau	2	x	10	New construction, connecting to 500 kV Long Dien substation
16	Long Dien 500 kV - Phuoc Thuan (Dat Do)	2	x	16	New construction, connecting to 500 kV Long Dien substation
17	Vung Tau 2 - Vung Tau	2	x	9	New construction
18	Increasing the load capacity of Tri An - Song May 500 kV Hydropower Plant	1	x	24	Upgrade load capacity to ensure regional power supply
19	Binh Chanh 2 – Branch to Duc Hoa - Phu Lam	4	x	2	New construction, proposal for schematic design operation for 220 kV Binh Chanh 2 substation
20	500 kV Da Phuoc - Binh Chief 2	2	x	10	New construction, connecting to 500 kV Da Phuoc Substation. Flexible diagram is designed for 220 kV Binh Chanh 2 substation
21	500 kV Da Phuoc - Binh Chanh	2	x	9	New construction, connecting to 500 kV Da Phuoc substation, consider transferring the connection of District 8 220 kV substation to Phu Lam 500 kV substation.
22	500 kV Da Phuoc - Dam Sen	2	x	22	New construction and connecting to 500 kV Da Phuoc substation; consider separate busbar operation of 220 kV Ba Queo substation to limit short-circuit current
23	LNG Hiep Phuoc Phase 2 - Binh Chanh	2	x	13	Synchronize with LNG Hiep Phuoc Phase II Power Plant
24	Hoc Mon 2 – Branch to Cau Bong - Binh Chanh 1	4	x	1	New construction
25	500 kV Thu Duc City – Branch to Cong Nghe Cao - District 9	4	x	5	New construction
26	Increasing the load capacity of the 220 kV Cat Lai - Thu Duc transmission line	2	x	13	Upgrade to increase load capacity, synchronize with 500 kV Thu Duc City Substation
27	500 kV Thu Duc City - Cat Lai transferred connection to 220 kV Thu Duc station (separated Cat Lai - Thu Duc connection)	2	x	5	New construction, connecting to 500 kV Thu Duc City Substation, change connection to limit short circuit current; select cross-section with suitable load capacity for 220 kV Cat Lai - Thu Duc transmission line (after renovation)
28	500 kV Binh Duong 2 connecting Ben Cat - Ben Cat 2 and Chon Thanh - Ben Cat 2	4	x	12	New construction, connecting to 220 kV side of 500 kV Binh Duong 2 substation
29	500 kV Binh Duong 2 – Branch to Ben Cat - Tan Dinh 2	4	x	16	New construction, connecting to 220 kV side of 500 kV Binh Duong 2 substation
30	Ben Cat 3 – Branch to Bon Cat 2 - Binh Duong 2 500 kV	4	x	4	New construction
31	Increasing the load capacity of the 220 kV Uyen Hung - Tan Dinh 500 kV transmission line	2	x	16	Upgrade to increase load capacity
32	Bau Bang connects Chon Thanh - Ben Cat and Chon Thanh - 500 kV Binh Duong 2	4	x	1	New construction, in case the 500 kV Binh Duong 2 substation is built later than the 220 kV Bau Bang substation, the name of the connection project will be "Bau Bang - Chon

					Thanh - Ben Cat and Chon Thanh - Ben Cat 2".
33	Long Thanh 2 Industrial Zone - Branch to Xuan Loc - Long Thanh	4	x	1	New construction
34	Can Giuoc – Branch to 500 kV Long An - Nam Hiep Phuoc	4	x	3	New construction
35	500 kV Long An 2 – Branch to Long An - Tan Phuoc	4	x	10	New construction
36	500 kV Tien Giang – Branch to Vinh Long - Sa Dec	4	x	15	New construction
37	500 kV Tien Giang – Branch to Cai Lay - Cao Lanh	4	x	4	New construction
38	500 kV Ben Tre-Ba Tri	2	x	16	New construction, relieving renewable energy
39	500 kV Dong Thap – Branch to Hong Ngu - Lap Vo	4	x	12	New construction, connecting to 500 kV Dong Thap substation
40	500 kV An Giang – Branch to Kien Binh - Rach Gia	2	x	26	New construction, connecting to 500 kV An Giang substation
41	500 kV An Giang - Chau Thanh (An Giang)	4	x	28	New construction, connecting to 500 kV An Giang substation
42	500 kV An Giang – Branch to Chau Doc - Kien Binh	4	x	40	New construction, connecting to 500 kV An Giang substation
43	Vi Thanh – Branch to O Mon - Ca Mau Thermal Power Plant	4	x	12	New construction
44	Vinh Quang - Branch to Rach Gia - Kien Binh	2	x	1	New construction
45	Bac Lieu 4 - 500 kV Bac Lieu (*)	2	x	10	New construction, synchronized with the scale and progress of regional power sources
46	Soc Trang - 500 kV Long Phu	2	x	35	New construction, relieving renewable energy
47	Increasing the load capacity of Soc Trang - Chau Thanh (Hau Giang)	2	x	50	Improve load capacity and relieveing renewable energy
48	Increasing the load capacity of Bac Lieu - Soc Trang	2	x	42	Improve load capacity and relieving renewable energy
49	Ca Mau 4 – Branch to Ca Mau 1 Wind Power - Ca Mau	2	x	7	New construction, synchronized with the scale and progress of regional power sources
50	Estimated volume of connection of renewable energy sources			500	New construction, relieving renewable energy
51	Reserved for arising costs of 220 kV transmission line renovation and new construction			500	Reserved for load growth and power source development

Note:

1. For substations

- The list of substations does not include step-up substations of power source projects. During the project preparation process of each phase, the scale of the step-up substation will be selected to suit the load demand and power source capacity relieving.

(*) The progress, scale and location of the substations will be determined during project preparation, depending on the potential for power source development and actual grid configuration.

2. For the line

- Line length will be determined during project preparation.

(*) The progress and scale of the lines will be determined during project preparation, depending on the potential for power source development and actual grid configuration.

3. For renewable energy connection

Detailed connection plans of renewable energy projects need to be carefully considered during implementation, adjusted to suit actual conditions (if necessary), ensuring economic efficiency and technical operating standard