ລັດວິສາຫະກິດ ໄຟຟ້າລາວ



ປື້ມສະຖິຕິ ປະຈຳປີ 2022

ຮຽບຮຽງ ໂດຍ: ພະແນກແຜນການ ຝ່າຍທຸລະກິດ-ແຜນການ





STATISTIC YEAR BOOK

2022

COMPILED BY:

PLANNING DIVISION

BUSINESS AND PLANNING DEPARTMENT

ถำบำ

ຈຸດປະສົງ ຂອງນື້ ມສະຖິຕິ ປະຈຳປີ 2022 ສະບັບນີ້ ແມ່ນເພື່ອສ່ອງແສງເຖິງຜົນສຳເລັດ ໃນການ ພັດທະນາລະບົບໄຟຟ້າ ແລະ ການດຳເນີນທຸລະກິດ ໃນໄລຍະຜ່ານມາ ຂອງລັດວິສາຫະກິດໄຟຟ້າລາວ (ຟຟລ) ຢູ່ໃນ ສປປ ລາວ. ເຊື້ອໝັ້ນວ່າ ປື້ ມສະຖິຕິ ສະບັບນີ້ ຈະເປັນບ່ອນອີງທີ່ດີ ຕໍ່ການສຶກສາຄົ້ນຄວ້າ ເພື່ອເຊື່ອມໂຍງໃຫ້ແກ່ການວາງແຜນພັດທະນາ ເສດຖະກິດ-ສັງຄົມ ໃນວຽກງານຂະແໜງອື່ນໆ.

ພະແນກແຜນການ, ຝ່າຍທຸລະກິດ-ແຜນການ ຂອງ ຟຟລ ຍິນດີຮັບເອົາຂໍ້ຄິດເຫັນ ຕຳນິ ຕິຊົມຈາກ ທຸກພາກສ່ວນ ແລະ ບັນດາທ່ານ ທີ່ໄດ້ນຳໃຊ້ປຶ້ມຫົວນີ້ ມາປັບປຸງແກ້ໄຂ ເພື່ອແນໃສ່ຮັບໃຊ້ສັງຄົມໃນຕໍ່ໜ້າ ໃຫ້ມີຄຸນນະພາບດີຂຶ້ນ.

ຫວັງວ່າຈະໄດ້ຮັບການຮ່ວມຈາກບັນດາທ່ານ ຜູ້ນຳໃຊ້ປຶ້ມສະຖິຕິສະບັບນີ້ ເປັນຢ່າງດີ

Preface

The objective of the Annual Statistical 2022 Report is to present accomplishments in the development of the electrical infrastructure and the business performance of Electricité du Laos over the past period. We are confident that this publication will serve as an invaluable reference for providing research, comprehensive foundation to support and integrate economic and social development planning across various related sectors.

The Planning Division, Business-Planning Department of EDL cordially welcomes input and recommendations from all sectors and individuals who have consulted this publication, with the objective of incorporating these insights to refine and enhance its quality, ensuring it continues to serve society more effectively in the future.

We look forward to receiving the fullest cooperation from all esteemed users who are highly satisfied with this service.

นะแบทแผบทาบ

Planning Division



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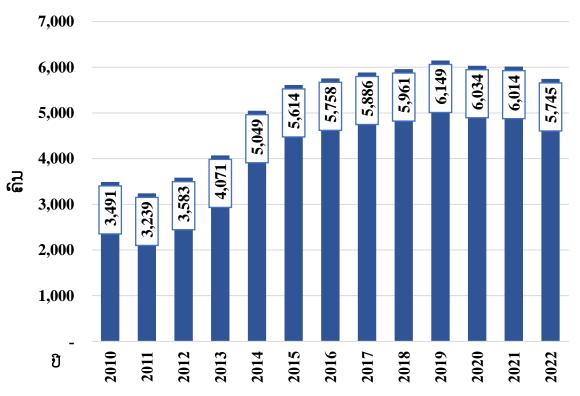
ຈຳນວນພະນັກງານ ແລະ ອັດຕາການເຕີບໂຕ ແມ່ນການສົມທຽບຈຳນວນພະນັກງານ ໃນແຕ່ລະປີ

ຕາຕະລາງ 1: ພະນັກງານ ຂອງ ຟຟລ (ອັດຕາການເພີ່ມ ປີຕໍ່ປີ)

ปี	ຈຳນວນພະນັກງານ (ຄົນ)	ອັດຕາການເຕີບໂຕ (%)
2010	3,491	100.0%
2011	3,239	92.8%
2012	3,583	110.6%
2013	4,071	113.6%
2014	5,049	124.0%
2015	5,614	111.2%
2016	5,758	102.6%
2017	5,886	102.2%
2018	5,961	101.3%
2019	6,149	103.2%
2020	6,034	98.1%
2021	6,014	99.7%
2022	5,745	95.5%

ແຫຼ່ງຂໍ້ມຸນ: ອ້າງອີງຈາກປຶ້ມສະຖິຕິປະຈຳປີ ແລະ ຝ່າຍບຸກຄະລາກອນ

ຮຸບສະແດງ 1: ຈຳນວນພະນັກງານ ຂອງຟຟລ



1. Employees of EDL

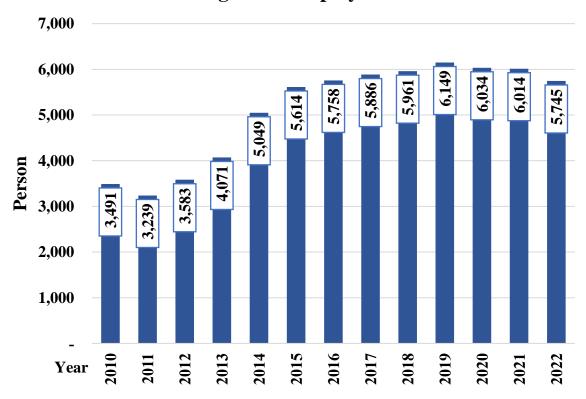
The number of employees and growth rate refer to the comparison of the number of employees over the year.

Table 1: Employees of EDL (Annual Growth Rate)

Year	Employees (Person)	Growth (%)
2010	3,491	100.0%
2011	3,239	92.8%
2012	3,583	110.6%
2013	4,071	113.6%
2014	5,049	124.0%
2015	5,614	111.2%
2016	5,758	102.6%
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2021	6,014	99.7%
2022	5,745	95.5%

Source: EDL Statistics Book and Human Resource Department

Figure 1: Employees



2. ກຳລັງການຕິດຕັ້ງ (ທັງໝົດ)

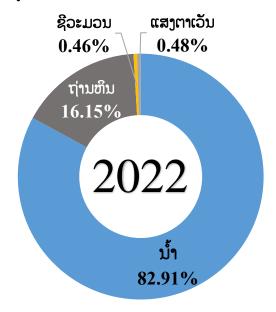
ກຳລັງຕິດຕັ້ງທັງໝົດ ແມ່ນກຳລັງຕິດຕັ້ງ ຂອງບັນດາແຫຼ່ງຜະລິດ ໃນ ສປປ ລາວ ໂດຍລວມເອົາ ທັງແຫຼ່ງຜະລິດທີ່ ຝຟລ ຄຸ້ມຄອງ, ຜ-ຝຟລ, ພາກເອກະຊົນ ທີ່ມີສັນຍາຊື້-ຂາຍ ກັບ ຝຟລ ແລະ ພາກເອກະຊົນທີ່ ສິ່ງອອກຕ່າງປະເທດ

ຕາຕະລາງ 2: ກຳລັງຕິດຕັ້ງທັງໝົດຂອງແຫຼ່ງຜະລິດໄຟຟ້າໃນ ສປປ ລາວ ທັງໝົດ

1	ຫີວໜ່ວຍ ${f MW}$	บ้ำ	ฤ่ามตีม	ຊີວະມວນ	ແສງຕາເວັນ	ลอม
	นฝล	2.4	-	-	-	2.4
<u> </u>	เ ข-ฝฝล	190.0	-	-	-	190.0
ມາກເໜືອ	IPPs	3,174.0	1,878.0	-	-	5,052.0
<u>ទ</u>	SPP	149.8	-	-	-	149.8
	ລວມພາກເໜືອ	3,516.2	1,878.0	-	-	5,394.2
	นนล	-	1	-	-	1
5	เม-เมแล	499.0	1	-	32.0	531.0
นากกาง	IPPs	2,415.9	1	1	1	2,415.9
ិ	SPP	35.4	1	1	14.0	49.4
	ລວມພາກກາງ	2,950.3	-	-	46.0	2,996.3
	นนล	15.0	-	-	-	15.0
ئڌ	เน-นนล	255.0	-	-	1	255.0
มากใต้	IPPs	2,824.0	-	35.0	10.0	2,869.0
3	SPP	81.7	-	18.5	1	100.2
	ລວມພາກໃຕ້	3,175.7	-	53.5	10.0	3,239.2
	ລວມທັງໝົດ	9,642.2	1,878.0	53.5	56.0	11,629.7
	ສັດສ່ວນ (%)	82.91%	16.15%	0.46%	0.48%	100%

ແຫຼ່ງຂໍ້ມູນ: ກະຊວງພະລັງງານ ແລະ ບໍ່ແຮ່. ຝ່າຍວາງແຜນ ແລະ ບັນຊາລະປົບໄຟຝ້າ ແລະ ຝ່າຍທຸລະກິດ-ການເງິນ

ຮູບສະແດງ 2: ກຳລັງການຕິດຕັ້ງທັງໝົດ



2. Installed Capacity (Total)

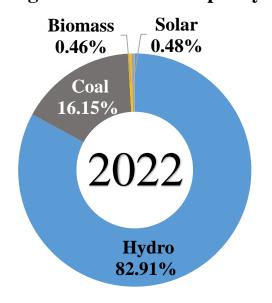
The total of installed Capacity in Lao PDR is included of EDL, EDL-GEN, IPP&SPP that have PPA with EDL and IPP&SPP are not under the management of EDL.

Table 2: Total installed capacity in Lao PDR

	Unit MW	Hydro	Coal	Biomass	Solar	Total
	EDL	2.4	-	-	-	2.4
Northern	EDL-GEN	190.0	1	-	1	190.0
	IPPs	3,174.0	1,878.0	-	-	5,052.0
S S	SPP	149.8	-	-	-	149.8
	Total Northern	3,516.2	1,878.0	-	-	5,394.2
	EDL	1	-	-	-	-
g	EDL-GEN	499.0	1	-	32.0	531.0
Central	IPPs	2,415.9	1	-	1	2,415.9
5	SPP	35.4	1	-	14.0	49.4
	Total Central	2,950.3	•	-	46.0	2,996.3
	EDL	15.0	1	-	-	15.0
ern	EDL-GEN	255.0	1	-	-	255.0
Southern	IPPs	2,824.0	1	35.0	10.0	2,869.0
Sol	SPP	81.7	1	18.5	-	100.2
	Total Southern	3,175.7	-	53.5	10.0	3,239.2
	Total	9,642.2	1,878.0	53.5	56.0	11,629.7
	Share (%)	82.91%	16.15%	0.46%	0.48%	100%

Source: Ministry of Energy and Mines. Power System Planning and Control Department and Business and Finance Department

Figure 2: Installed Capacity



3. ກຳລັງຕິດຕັ້ງທີ່ມີ (ມີສັນຍາຊື້-ຂາຍກັບ ຟຟລ)

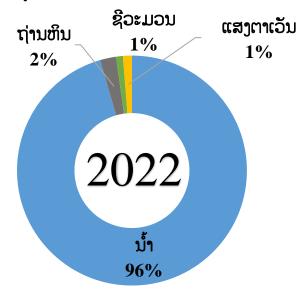
ກຳລັງຕິດຕັ້ງທີ່ມີ ແມ່ນຈຳນວນກຳລັງຕິດຕັ້ງຂອງບັນດາແຫຼ່ງຜະລິດ ຂອງ ຜ-ຟຟລ ແລະ ພາກເອກະ ຊົນ ທີ່ມີການເຊັນສັນຍາຊື້-ຂາຍໄຟຟ້າ ກັບ ຟຟລ ໂດຍລວມທັງ ແຫຼ່ງຜະລິດທີ່ ຟຟລ ຄຸ້ມຄອງເອງ

ຕາຕະລາງ 3: ກຳລັງການຕິດຕັ້ງທີ່ມີໃນລະບົບຂອງ ຟຟລ

ນ ີ້	່ວໜ່ວຍ MW	ม ้ำ	ฤ่ามติบ	ຊີວະມວນ	ແສງຕາເວັນ	ี่ ฮอม
	นนล	2.39	-	-	-	2.39
္မရွ	เ ข-ฝฟล	190.00	-	-	-	190.00
ພາກເໜືອ	IPPs	1,880.00	100.00	-	-	1,980.00
	SPP	149.78	-	-	-	149.78
	ລວມພາກເໜືອ	2,222.17	100.00	-	-	2,322.17
	นนล	-	-	-	-	-
្ឌ	เล- ผนอ	499.00	-	-	32.00	531.00
นากกา	IPPs	543.90	-	-	-	543.90
ప్	SPP	35.43	-	-	14.00	49.43
	ລວມພາກກາງ	1,078.33	-	-	46.00	1,124.33
	นนล	15.00	-	-	-	15.00
ع _د	เ ข-ม _ี ผล	255.00	-	-	-	255.00
มากใต้	IPPs	697.90	-	35.00	10.00	652.90
పై	SPP	81.66	-	8.00	-	89.66
	ລວມພາກໃຕ້	959.56	-	43.00	10.00	1,012.56
<u> </u>	າວມທັງໝົດ	4,260.06	100.00	43.00	56.00	4,459.06
	ດສ່ວນ (%)	95.54%	2.24%	0.96%	1.26%	100%

ແຫຼ່ງຂໍ້ມຸນ: ສຸນບັນຊາລະບົບໄຟຝ້າ ແລະ ຝ່າຍທຸລະກິດ-ການເງິນ

ຮູບສະແດງ 3: ກຳລັງຕິດຕັ້ງທີ່ມີ



3. Available Capacity (PPA with EDL)

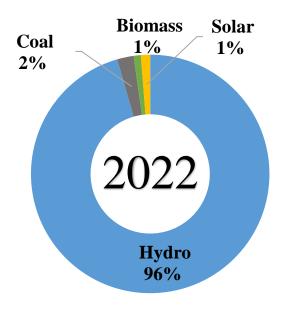
The available installed capacity refers to the power generation capacity of EDL-GEN, IPP&SPP that have PPA with EDL, as well as the power plants managed directly by EDL.

Table 3: Available Capacity in EDL system

	Unit MW	Hydro	Coal	Biomass	Solar	Total
ern	EDL	2.39	-	-	-	2.39
	EDL-GEN	190.00	-	-	-	190.00
Northern	IPPs	1,880.00	100.00	-	-	1,980.00
50	SPP	149.78	-	-	-	149.78
	Total Northern	2,222.17	100.00	-	-	2,322.17
	EDL	-	-	-	-	-
Ę,	EDL-GEN	499.00	ı	-	32.00	531.00
Central	IPPs	543.90	-	-	-	543.90
ညီ	SPP	35.43	1	-	14.00	49.43
	Total Central	1,078.33	-	-	46.00	1,124.33
	EDL	15.00	1	-	1	15.00
ern	EDL-GEN	255.00	1	-	-	255.00
the	IPPs	697.90	ı	35.00	10.00	652.90
Southern	SPP	81.66	ı	8.00	1	89.66
J 2	Total Southern	959.56	-	43.00	10.00	1,012.56
	Total	4,260.06	100.00	43.00	56.00	4,459.06
	Share (%)	95.54%	2.24%	0.96%	1.26%	100%

Source: Power System Planning and Control Department and Business and Finance Department

Figure 3: Available Capacity





4. ແຫຼ່ງຜະລິດໄຟຟ້າ ທີ່ສະໜອງໄຟໃຫ້ກັບ ຟຟລ (ມີສັນຍາຊື້-ຂາຍກັບ ຟຟລ)

ຕາຕະລາງ 4: ແຫຼ່ງຜະລິດໄຟຟ້າທີ່ສະໜອງໃຫ້ ຟຟລ

ລ/ດ	ເຂື່ອນໄຟຟ້າ	ທີ່ຕັ້ງ	ກຳລັງຕິດຕັ້ງ (MW)	GWh/ป๊	ถุ้มถอา	COD
	ฝฝล		17.39	77.12		
1	้ บ้ำทำ	ອຸດິມໄຊ	1.50	7.90	นนล	1996
2	ນ້ຳແສ້	ອຸດິມໄຊ	0.08	0.14	นนล	2012
3	ນ້ຳມອງ	ຫລວງພະບາງ	0.07	0.12	นนล	2012
4	ນ້ຳບູນ	ຜິ້ງສາລີ	0.30	0.53	นนล	2016
5	ນ້ຳສາດ	ຫົວພັນ	0.27	0.36	นนล	2014
6	บ้ำ ล้าบ	ຫົວພັນ	0.11	0.04	นนล	2014
7	ນ້ຳແອດ	ຫົວພັນ	0.06	0.03	นนล	2014
8	ຫ້ວຍລຳພັນຕອນລຸ່ມ	ເຊກອງ	15.00	68.00	นนล	2022
	EDL-GEN		976.00	4,296.57		
9	ม้ำถาบ3	ຫລວງພະບາງ	60.00	240.00	น-ฝฝລ	2016
10	ม้ำถาบ2	ຫລວງພະບາງ	130.00	568.00	ผ-ฝฝລ	2015
11	บ้ำจรูบ	ໄຊສີມບູນ	104.00	448.00	ผ-ฝฝລ	2018
12	ນ້ຳງື່ມ 1 + ຈັກເບີ 6	ແຂວງວຽງຈັນ	195.00	1,061.00	ผ-ฝฝລ	1971
13	ม้ำมั <u>ງ</u> 3	ແຂວງວຽງຈັນ	40.00	150.00	ผ-ฝฝລ	2005
14	ນ້ຳເລິກ	ເສສູກຄໍກ	60.00	218.00	น-ฝฝລ	2000
15	ນ້ຳຊອງ	ແຂວງວຽງຈັນ	6.00	28.00	น-ฝฝล	2012
16	บ้ำสะบา	ແຂວງວຽງຈັນ	14.00	49.00	น-ฝฝล	2014
17	ນ້ຳງື່ມ1 ຈັກເບີ 7-8	ແຂວງວຽງຈັນ	80.00	360.00	เ ช-ฟฟล	2018
18	ພະລັງງານແສງອາທິດ ເມືອງ ປາກງື່ມ 1+2	ນະຄອນຫຼວງວຽງຈັນ	15.00	25.26	เ น-ฝฟล	2017
19	ພະລັງງານແສງອາທິດ ເມືອງນາ ຊາຍທອງ 1	ນະຄອນຫຼວງວຽງຈັນ	4.80	8.12	เ น-ฝฝล	2017
20	ພະລັງງານແສງອາທິດ ເມືອງນາ ຊາຍທອງ 2	ນະຄອນຫຼວງວຽງຈັນ	5.00	8.00	เ น-ฝฝล	2018
21	ພະລັງງານແສງອາທິດ ເມືອງສັງ ທອງ	ນະຄອນຫຼວງວຽງຈັນ	2.00	3.40	เ ข-ฝฝล	2018
22	ພະລັງງານແສງອາທິດ ເມືອງສີ ໂຄດຕະບອງ	ນະຄອນຫຼວງວຽງຈັນ	5.20	8.80	เม-นปล	2018
23	ເຊລະບຳ + ພາກຂະຫຍາຍ	ຈຳປາສັກ	13.00	55.46	เ ช-ฝฝล	1969
24	ឌេ្លេត្ត 3	ຈຳປາສັກ	23.00	82.00	เ ช-ฝฝล	2016
25	ខេ្មឆេីក 1	ສາລະວັນ	45.00	133.90	เ น-ม _ี นล	1991
26	ឌេដើល 2	ສາລະວັນ	86.00	349.63	เ น-ม _ี นล	2009
27	ຫ້ວຍລຳພັນໃຫຍ່	ເຊກອງ	88.00	500.00	เม-นเปล	2015

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					RICHEDU		
ລ/ດ	ເຂື່ອນໄຟຝ້າ	ທີ່ຕັ້ງ	ກຳລັງຕິດຕັ້ງ (MW)	GWh/ปี	ຄຸ້ມຄອງ	COD	
	IPP		3,176.80	14,248.70			
28	ນ້ຳແບ່ງ	ອຸດົມໄຊ	36.00	136.00	IPP	2016	
29	ຫົງສາ	ໄຊຍະບູລີ	100.00	830.00	IPP	2015	
30	ນ້ຳອູ 2	ຫລວງພະບາງ	120.00	545.00	IPP	2015	
31	ນ້ຳອູ 5	ຜິ້ງສາລີ	240.00	1,129.00	IPP	2015	
32	ນ້ຳອູ 6	ຜິ້ງສາລີ	180.00	418.00	IPP	2015	
33	ນ້ຳລີກ 1/2	ແຂວງວຽງຈັນ	100.00	435.00	IPP	2010	
34	ม้ำวื่ม <i>5</i>	ຊຽງຂວາງ	120.00	507.00	IPP	2012	
35	ນ້ຳງຽບ 2	ຊຽງຂວາງ	180.00	723.00	IPP	2015	
36	ນ້ຳງຽບ 3A	ຊຽງຂວາງ	44.00	144.00	IPP	2015	
37	บ้ำไผ่	ໄຊສ <u>ິ</u> ງກດຳກ	86.00	420.00	IPP	2017	
38	บ้ำทา 1	ບໍ່ແກ້ວ	168.00	721.00	IPP	2018	
39	ນ້ຳລີກ 1	ແຂວງວຽງຈັນ	64.50	265.00	IPP	2019	
40	บ้ำผาใ ทย่	ໄຊສ <u>ິ</u> ງກດຳກ	19.40	130.00	IPP	2019	
41	ເຂື່ອນນ້ຳຂອງໄຊຍະບູລີ	ໄຊຍະບູລີ	60.00	300.00	IPP	2019	
42	ນ້ຳອູ 1	ຫລວງພະບາງ	180.00	709.00	IPP	2020	
43	ນ້ຳອູ 3	ຫລວງພະບາງ	210.00	684.00	IPP	2020	
44	ນ້ຳອູ 4	ຜົ້ງສາລີ	132.00	523.00	IPP	2020	
45	ນ້ຳອູ 7	ຜົ້ງສາລີ	210.00	810.00	IPP	2021	
46	ນ້ຳເທີນ 2	ຄຳມ່ວນ	75.00	300.00	IPP	2009	
47	ນ້ຳຍວງ	ບໍລິຄຳໄຊ	60.00	316.00	IPP	2012	
48	ນ້ຳມັງ 1	ບໍລິຄຳໄຊ	64.00	201.00	IPP	2016	
49	ນ້ຳງຽບ 1	ບໍລິຄຳໄຊ	20.00	97.00	IPP	2020	
50	ໂຮງງານຜະລິດເຈ້ຍ	ສະຫວັນນະເຂດ	15.00	80.00	IPP	2018	
51	ເຊລະນອງ	ສະຫວັນນະເຂດ	70.00	267.00	IPP	2020	
52	ແສງຕາເວັນໜາມຄອງ 1	ສະຫວັນນະເຂດ	5.00	8.00	IPP	2022	
53	ແສງຕາເວັນໜາມຄອງ 3	ສະຫວັນນະເຂດ	5.00	8.00	IPP	2022	
54	ນ້ຳເທີນ 1	ບໍລິຄຳໄຊ	130.00	527.50	IPP	2022	
55	ຫ້ວຍເຫາະ	ອັດຕະປື	2.10	8.20	IPP	1999	
56	ໂຮງງານນ້ຳຕານ ຮ່ວງແອງ	ອັດຕະປື	20.00	123.00	IPP	2013	
57	ເຊປຽນ-ເຊນ້ຳນ້ອຍ	ອັດຕະປື	40.80	229.00	IPP	2019	
58	ດອນສະໂຮງ	ຈຳປາສັກ	260.00	2,006.00	IPP	2020	
59	ນ້ຳກົງ 1	ອັດຕະປື	160.00	649.00	IPP	2021	



ປຶ້ມສະຖິຕິ ລັດວິສາຫະກິດໄຟຝ້າລາວ 2022

ລ/ດ	ເຂື່ອນໄຟຝ້າ	ທີ່ຕັ້ງ	ກຳລັງຕິດຕັ້ງ (MW)	GWh/ป๊	ຄຸ້ມຄອງ	COD
	SPP		288.87	1,234.96		
60	บ้ำ ยอบ	ບໍ່ແກ້ວ	2.40	11.50	SPP	2011
61	ง้ำ ท า 3	ຫຼວງນ້ຳທາ	1.30	6.00	SPP	2011
62	ນ້ຳລອງ	ຫຼວງນ້ຳທາ	5.00	37.00	SPP	2013
63	ນ້ຳອູ 9	ຜິ້ງສາລີ	0.52	1.60	SPP	2015
64	ม้ำ <u>ว</u> า 2	ອູ່ບູກ,ເຮ	14.50	62.59	SPP	2017
65	ນ້ຳເປີ້ນ 2	ຫົວພັນ	12.00	68.00	SPP	2017
66	บ้ำใน	ແຂວງວຽງຈັນ	2.63	12.54	SPP	2017
67	ຕາດລ່າງ-ນ້ຳແສນ	ຊຽງຂວາງ	5.00	18.00	SPP	2014
68	ນ້ຳໂສ້	ຊຽງຂວາງ	7.38	18.68	SPP	2016
69	ນ້ຳງຽບ 2C	ຊຽງຂວາງ	14.80	58.00	SPP	2017
70	บ้ำทะ	ຊຽງຂວາງ	0.08	0.52	SPP	2010
71	ນ້ຳເປີ້ນ 1	ຫົວພັນ	25.60	109.61	SPP	2018
72	ນ້ຳງື່ມ-ແກ້ງຄວັນ	ຊຽງຂວາງ	1.00	5.95	SPP	2018
73	ນ້ຳງຽບ 2B	ຊຽງຂວາງ	15.90	76.00	SPP	2019
74	ນ້ຳກາບ	ໄຊສ <u>ິ</u> ກວຳກ	12.00	54.07	SPP	2019
75	บ้ำแจ 1	ໄຊສ <u>ິ</u> ງກຄຳກ	15.00	63.62	SPP	2019
76	ນ້ຳອ້າວ	ຊຽງຂວາງ	15.00	84.24	SPP	2020
77	ນ້ຳແທ້	ຊຽງຂວາງ	24.80	80.66	SPP	2020
78	ນ້ຳຕະລານ	ຫຼວງນ້ຳທາ	4.50	18.88	SPP	2020
79	ພະລັງງານແສງອາທິດ ບໍລິສັດ ທີພີຈີລາວ ຈຳກັດ	ນະຄອນຫຼວງວຽງ ຈັນ	14.00	25.00	SPP	2020
80	ນ້ຳພາວ	ບໍລິຄຳໄຊ	1.60	8.00	SPP	2011
81	ໂຮງງານນ້ຳຕານ ມິດລາວ	ສະຫວັນນະເຂດ	4.50	14.06	SPP	2013
82	ຕາດສະແລນ	ສະຫວັນນະເຂດ	3.20	17.00	SPP	2012
83	ໂຮງງານນ້ຳຕານ	ສະຫວັນນະເຂດ	3.50	10.94	SPP	2018
84	ง้ำ 2 ั๋	ບໍລິຄຳໄຊ	4.20	19.25	SPP	2019
85	ນ້ຳຫິນບູນຕອນລຸ່ມ	ຄຳມ່ວນ	15.00	79.00	SPP	2021
86	ເຊນ້ຳນ້ອຍ 6	ຈຳປາສັກ	5.00	25.20	SPP	2015
87	ເຊນ້ຳນ້ອຍ2 - ເຊກະຕຳ1	จำปาสัก	20.10	120.00	SPP	2017
88	ຫ້ວຍເປາະ	ສາລະວັນ	15.00	60.00	SPP	2017
89	ເຊນ້ຳນ້ອຍ 1	ອັດຕະປື	14.80	28.00	SPP	2014
90	ຫ້ວຍສະໝອງ	ອັດຕະປື	0.56	1.50	SPP	2016
91	ตากจรูก	จำปาสัก	8.00	39.55	SPP	2018
	ລວມທັງເ	ນິ ດ	4,459.06	19,857.35		

4. Electricity Generation Sources of EDL (PPA with EDL)

Table 4: Electricity Generation Sources of EDL

No.	Power Plants	Provinces Location	Installed (MW)	GWh/year	Owner	COD
	EDL		17.39	77.12		
1	NamKo	Oudomxay	1.50	7.90	EDL	1996
2	NamSae	Oudomxay	0.08	0.14	EDL	2012
3	NamMong	Luangprabang	0.07	0.12	EDL	2012
4	NamBoun	Phongsaly	0.30	0.53	EDL	2016
5	NamSad	Houaphan	0.27	0.36	EDL	2014
6	NamSan	Houaphan	0.11	0.04	EDL	2014
7	NamEt	Houaphan	0.06	0.03	EDL	2014
8	Huay Lamphan Downstream	Xekong	15.00	68.00	EDL	2022
	EDL-GEN		976.00	4,296.57		
9	NamKhan 3	Luangprabang	60.00	240.00	EDL-Gen	2016
10	NamKhan 2	Luangprabang	130.00	568.00	EDL-Gen	2015
11	Nam Chien	Xaysomboun	104.00	448.00	EDL-Gen	2018
12	NamNgum1 + No 6	Vientiane	195.00	1,061.00	EDL-Gen	1971
13	NamMang3	Vientiane	40.00	150.00	EDL-Gen	2005
14	Nam Leuk	Xaysomboun	60.00	218.00	EDL-Gen	2000
15	Namsong (Ex)	Vientiane	6.00	28.00	EDL-Gen	2012
16	NamSana	Vientiane	14.00	49.00	EDL-Gen	2014
17	NamNgum1 Extension 7-8	Vientiane	80.00	360.00	EDL-Gen	2018
18	Solar Power Pakngum District1+2	Vientiane Capital	15.00	25.26	EDL-Gen	2017
19	Solar Power Nasaythong District1	Vientiane Capital	4.80	8.12	EDL-Gen	2017
20	Solar Power Nasaythong District2	Vientiane Capital	5.00	8.00	EDL-Gen	2018
21	Solar Power Sangthong District	Vientiane Capital	2.00	3.40	EDL-Gen	2018
22	Solar Power Sykhodtabong District	Vientiane Capital	5.20	8.80	EDL-Gen	2018
23	Xelabam	Champasak	13.00	55.46	EDL-Gen	1969
24	Xeset3	Champasak	23.00	82.00	EDL-Gen	2016
25	Xeset 1	Saravane	45.00	133.90	EDL-Gen	1991
26	Xeset 2	Saravane	86.00	349.63	EDL-Gen	2009
27	Houay LamphanNgai	Xekong	88.00	500.00	EDL-Gen	2015



ປຶ້ມສະຖິຕິ ລັດວິສາຫະກິດໄຟຝ້າລາວ 2022

No.	Power Plants	Provinces Location	Installed (MW)	GWh/year	Owner	COD
	IPP		3,176.80	14,248.70		
28	NamBaeng	Oudomxay	36.00	136.00	IPP	2016
29	HongsaLignite	Xayabouly	100.00	830.00	IPP	2015
30	NamOu 2	Luangprabang	120.00	545.00	IPP	2015
31	NamOu 5	Phongsaly	240.00	1,129.00	IPP	2015
32	NamOu 6	Phongsaly	180.00	418.00	IPP	2015
33	NamLik 1/2	Vientiane	100.00	435.00	IPP	2010
34	NamNgum 5	Xieng Khuang	120.00	507.00	IPP	2012
35	NamNgiep 2	Xieng Khuang	180.00	723.00	IPP	2015
36	NamNgiep 3A	Xieng Khuang	44.00	144.00	IPP	2015
37	NamPhay	Xaysomboun	86.00	420.00	IPP	2017
38	NamTha1	Bokeo	168.00	721.00	IPP	2018
39	Nam Lik 1	Vientiane	64.50	265.00	IPP	2019
40	NamPhaYai	Xaysomboun	19.40	130.00	IPP	2019
41	Xayabuly Power Company Limited	Xayabouly	60.00	300.00	IPP	2019
42	NamOu 1	Luangprabang	180.00	709.00	IPP	2020
43	NamOu 3	Luangprabang	210.00	684.00	IPP	2020
44	NamOu 4	Phongsaly	132.00	523.00	IPP	2020
45	NamOu 7	Phongsaly	210.00	810.00	IPP	2021
46	NamTheun 2	Khammuane	75.00	300.00	IPP	2009
47	NamGnuang	Bolikhamsay	60.00	316.00	IPP	2012
48	NamMang 1	Bolikhamsay	64.00	201.00	IPP	2016
49	NamNgiep 1	Bolikhamsay	20.00	97.00	IPP	2020
50	Sun Paper Holding Company	Savannakhet	15.00	80.00	IPP	2018
51	Xelanong	Savannakhet	70.00	267.00	IPP	2020
52	Solar Omnamkhong 1	Savannakhet	5.00	8.00	IPP	2022
53	Solar Omnamkhong 3	Savannakhet	5.00	8.00	IPP	2022
54	Nam Theun 1	Bolikhamsay	130.00	527.50	IPP	2022
55	HouayHo	Attapeu	2.10	8.20	IPP	1999
56	Biomass From Sugar Thermal Factory	Attapeu	20.00	123.00	IPP	2013
57	Xepian-Xenamnoy	Attapeu	40.80	229.00	IPP	2019
58	Donsahong	Champasak	260.00	2,006.00	IPP	2020
59	NamKong1	Attapeu	160.00	649.00	IPP	2021
	SPP		288.87	1,234.96		
60	NamNhone	Bokeo	2.40	11.50	SPP	2011

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		D •	T (11 1		/ \	•
No.	Power Plants	Provinces Location	Installed (MW)	GWh/year	Owner	COD
61	NamTha 3	Luangnamtha	1.30	6.00	SPP	2011
62	NamLong	Luangnamtha	5.00	37.00	SPP	2013
63	NamOu 9	Phongsaly	0.52	1.60	SPP	2015
64	NamNga 2	Oudomsay	14.50	62.59	SPP	2017
65	NamPeun2	Houaphan	12.00	68.00	SPP	2017
66	NamPhai	Vientiane	2.63	12.54	SPP	2017
67	Tadlang-Nam sen	Xieng Khuang	5.00	18.00	SPP	2014
68	NamSo	Xieng Khuang	7.38	18.68	SPP	2016
69	NamNgiep2C	Xieng Khuang	14.80	58.00	SPP	2017
70	NamKa	Xieng Khuang	0.08	0.52	SPP	2010
71	NamPeun1	Houaphan	25.60	109.61	SPP	2018
72	Namngum-KaengKhouan	Xieng Khuang	1.00	5.95	SPP	2018
73	NamNgiep2B	Xieng Khuang	15.90	76.00	SPP	2019
74	NamKarp	Xaysomboun	12.00	54.07	SPP	2019
75	NamJae1	Xaysomboun	15.00	63.62	SPP	2019
76	NamAow	Xieng Khuang	15.00	84.24	SPP	2020
77	NamThae	Xieng Khuang	24.80	80.66	SPP	2020
78	Nam Talan	Luangnamtha	4.50	18.88	SPP	2020
79	Solar Power TPG Lao Compamy Limited	Vientiane Capital	14.00	25.00	SPP	2020
80	NamPhao	Bolikhamsay	1.60	8.00	SPP	2011
81	Thermal Factory Mitlao	Savannakhet	4.50	14.06	SPP	2013
82	TadSalen	Savannakhet	3.20	17.00	SPP	2012
83	Sugar Thermal Factory Savanhnaket	Savannakhet	3.50	10.94	SPP	2018
84	NamSor	Bolikhamsay	4.20	19.25	SPP	2019
85	Hinboun Downstream	Khammuane	15.00	79.00	SPP	2021
86	Xenamnoy 6	Champasak	5.00	25.20	SPP	2015
87	Xenamnoy 2 and Xekatam1	Champasak	20.10	120.00	SPP	2017
88	HouayPo	Saravane	15.00	60.00	SPP	2017
89	Xenamnoy1	Attapeu	14.80	28.00	SPP	2014
90	HouaySaMong	Attapeu	0.56	1.50	SPP	2016
91	TadChiet	Champasak	8.00	39.55	SPP	2018
	Total		4,459.06	19,857.35		



5. ລວງຍາວລະບົບຕາຂ່າຍ-ສາຍສິ່ງໄຟຟ້າ

ລວງຍາວຂອງລະບົບຕາຂ່າຍ-ສາຍສິ່ງໄຟຝ້າ ທີ່ ຟຟລ ຄຸ້ມຄອງໃນປະຈຸບັນ ທີ່ວ ສປປ ລາວ

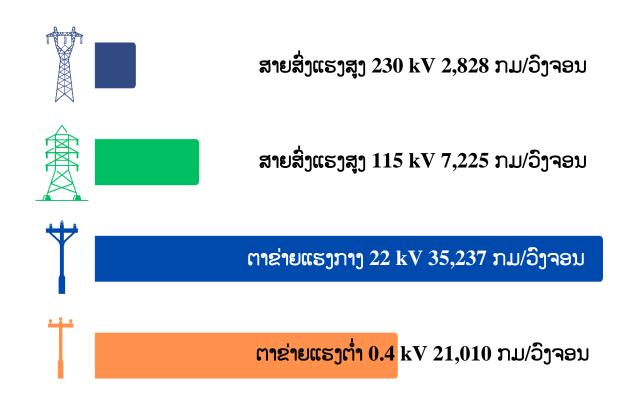
ຕາຕະລາງ 5: ລວງຍາວລະບົບຕາຂ່າຍ-ສາຍສິ່ງໄຟຟ້າ

unit km/ວົງຈອນ

ແຮງດັນ	2016	2017	2018	2019	2020	2021	2022
230 kV	1,371	1,619	2,470	2,468	2,640	2,828	2,828
115 kV	5,257	6,647	6,860	6,852	7,076	7,146	7,225
35 kV	260	288	331	354	394	394	400
Swer 34.5 kV	-	-	-	-	292	292	290
22 kV	28,264	29,720	30,847	32,241	33,376	35,188	35,237
Swer 12.7 kV	237	312	305	305	343	343	472
0.4 kV	18,376	18,903	19,432	19,706	20,280	20,570	21,010

ແຫຼ່ງຂໍ້ມຸນ: ອ້າງອີງຈາກປຶ້ມສະຖິຕິປະຈຳປີ ແລະ ບົດລາຍງານ ຂອງສາຂາ

ຮຸບສະແດງ 4: ລວງຍາວວົງຈອນສາຍສິ່ງ ແລະ ຕາຂ່າຍໄຟຟ້າ 2022



5. The Length of the Electrical Grid Transmission System

The length of the electricity grid transmission system that EDL currently manages directly.

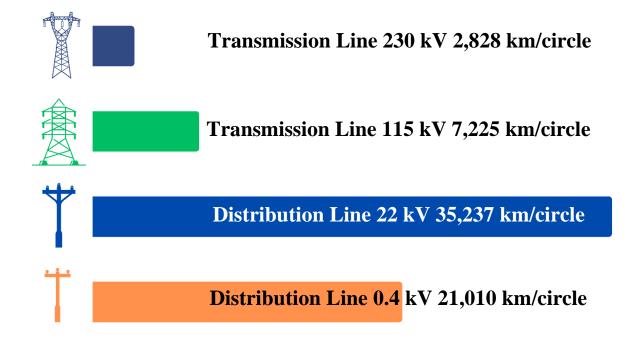
Table 5: Transmission system capacity

Unit km/Circle

Voltage	2016	2017	2018	2019	2020	2021	2022
230 kV	1,371	1,619	2,470	2,468	2,640	2,828	2,828
115 kV	5,257	6,647	6,860	6,852	7,076	7,146	7,225
35 kV	260	288	331	354	394	394	400
Swer 34.5 kV	-	-	-	-	292	292	290
22 kV	28,264	29,720	30,847	32,241	33,376	35,188	35,237
Swer 12.7 kV	237	312	305	305	343	343	472
0.4 kV	18,376	18,903	19,432	19,706	20,280	20,570	21,010

Source: Statistic EDL year book and Annual of branch

Figure 4: Lengths of transmission circuits and the electrical grid infrastructure 2022





6. ສະຖານີໄຟຟ້າແຮງສູງ ທີ່ວປະເທດ ຮອດປີ 2022

ຕາຕະລາງ 6: ສະຖານີໄຟຝ້າແຮງສູງ

		J 0. 808 (12 6 6 6 7)		ກຳລັງຕິດເ	ຕັ້ງໝໍ້ແປງ	• •	•.		
ແຂວງ	വ/ඏ	ສະຖານີຕ່າງໆ	ແຮງດັນ	230/115	115/22	Feeder	Feeder Spare		ີ່ອນ/ປີ ວະ
23	16	, 55	[kV]	kV [MVA]	kV [MVA]	Fe	Fe	บ้า	ใส้
	ສວາ	່ ບກຳລັງຕິດຕັ້ງທັງໝົດພ		1.210	861	<u>104</u>	<u>38</u>	No1	No2
100	1	ສະຖານີບູນໃຕ້	230/115kV	120	0	0	0	2015	1,02
ಟ್ರಿಖ್ಬಾ	2	ສະຖານີບູນເໜືອ	115/22kV	0	30	3	0	2019	
*2	3	ສະຖານີເມືອງຂວາ	115/22kV	0	30	2	4	2020	
	4	ສະຖານີທ່າຝ້າ	115/22kV	0	36	3	2	2017	
ບໍ່ແກ້ວ	5	ສະຖານີຫ້ວຍຊາຍ	115/22kV	0	60	4	8	2018	
- 3 5	6	ສະຖານີຜາອຸດົມ	230/115/ 22kV	400	30	2	2	2018	
	7	ສະຖານີຕົ້ນເຜິ້ງ	115/22kV	0	50	4	1	2020	
ຫຼວງນ້ຳທາ	8	ສະຖານີບ້ານໃໝ່	115/22kV	0	20	6	0	2009	
ະເນັນ	9	ສະຖານີຊຳເໜືອ	115/22kV	0	42,7	6	0	2011	
ຫີວນັນ	10	ສະຖານີຊຳໃຕ້	230/115kV	50	0	5	0	2020	
	11	ສະຖານີນາໝໍ້ 1	115/22kV	0	30	4	1	2009	
	12	ສະຖານີນາໝໍ້ 2	230/115kV	120	0	0	0	2015	
ອຸດົມໄຊ	13	ສະຖານີນາແລ	115/22kV	0	50	5	3	2009	
l CG	14	ສະຖານີເມືອງງາ	115/22kV	0	30	5	0	2017	
	15	ສະຖານີເມືອງຮຸນ	115/22kV	0	30	4	0	2021	
	16	ສະຖານີປາກແບງ	115/22kV	0	30	5	0	2017	
	17	ສະຖານີໄຊຍະບູລີ	115/22kV	0	36	5	0	2003	
t/C	18	ສະຖານີວຽງແກ້ວ	115/22kV	0	20	0	4	2015	
ໄຊຍະບູລີ	19	ສະຖານີປາກລາຍ	115/22kV	0	30	3	1	2016	
<u>%</u>	20	ສະຖານີໂພນໄຊ	115/22kV	0	30	4	0	2020	
	21	ສະຖານີແກ່ນທ້າວ	115/22kV	0	20	2	2	2020	
	22	ສະຖານີຊຽງຮອນ	115/22kV	0	30	4	0	2020	
	23	ສະຖານີໂພນສະຫວັນ	115/22kV	0	46	5	4	2003	
20	24	ສະຖານີນໍ້າງື່ມ 5	115/22kV	0	0	0	0	2012	
ลุ รายอา	25	ສະຖານີເມືອງຄຳ	115/22kV	0	10	2	1	2019	
60	26	ສະຖານີນາຫໍ່	115/22kV	0	20	1	3	2020	

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				ກຳລັງຕິດ	ກັ້ງໝໍ້ແປງ				
ແຂວງ	u/۳	ສະຖານີຕ່າງໆ	ແຮງດັນ	230/115	115/22	Feeder	Feeder Spare		້າອນ/ປີ
83	હ	weetine 1111	F3 X73	kV	kV	Fee	Fee Sp	ນຳ	ใຊ້
		. 6	[kV]	[MVA]	[MVA]			1001	
	27	ສະຖານີຫຼວງພະບາງ1	115/22kV	0	60	6	2	1996	
ร์	28	ສະຖານີຊຽງເງິນ 2	230/115/ 22kV	400	30	4	0	2013	
ຫຼວງພະບາງ	29	ສະຖານີຫ້ວຍແສນ3	115/22kV	0	30	4	0	2011	
िंदे	30	ສະຖານີປາກມອງ1	115/22kV	0	30	6	0	2009	
	31	ສະຖານີປາກມອງ 2	230/115kV	120	0	0	0	2015	
	<u>ລວ.</u>	<u>ມກຳລັງຕິດຕັ້ງທັງໝົດພ</u>	າກກາງ	<u>2.700</u>	<u>1.477</u>	<u>160</u>	<u>27</u>		
	32	ສະຖານີໂພນສູງ	115/22kV	0	30	6	0	1990	
	33	ສະຖານີທ່າລາດ	115/22kV	0	30	5	3	1972	
	34	ສະຖານີຫີນເຫີບ	230/115/ 22kV	400	20	4	0	2011	
อรูใจับ	35	ສະຖານີບ້ານດອນ	115/22kV	0	16	2	2	2003	
೨೫	36	ສະຖານີໂນນໄຮ	115/22kV	0	16	3	0	2003	
	37	ສະຖານີວັງວຽງ	115/22kV	0	32	6	0	1994	
	38	ສະຖານີກາສີ	115/22kV	0	30	7	1	2014	
	39	ສະຖານີແສງສະຫວ່າງ	230/115/ 22kV	400	20	3	3	2018	
สรา	40	ສະຖານີທີ່ງຄູນ 2	115/22kV	0	25	2	0	2012	
ໂຊສີມບູນ	41	ສະຖານີທ່າວຽງ	230/115/ 22kV	200	20	3	0	2016	
	42	ສະຖານີໂພນຕ້ອງ	115/22kV	0	200	17	0	1968	
	43	ສະຖານີທ່ານາແລ້ງ	115/22kV	0	110	11	1	2004	
	44	ສະຖານີໂຄກສະອາດ	115/22kV	0	102	11	0	2004	
	45	ສະຖານີນາຊາຍທອງ	230/115/ 22kV	400	60	8	0	2004	
jo	46	ສະຖານີດອນກອຍGIS	115/22kV	0	250	14	5	2012	2022
ນະຄອນຫຼວງ	47	ສະຖານີວຽງແກ້ວ	115/22kV	0	60	5	0	2012	
าะค	48	ສະຖານີປາກທ້າງ	115/22kV	0	100	7	0	2012	
	49	ສະຖານີນາບົງ	230/115/22 kV	200	30	6	1	2016	
	50	ສະຖານີວີຕ້າປາກ	115/22kV	0	30	2	2	2016	
	51	ສະຖານີທ່າສະຫວ່າງ	115/22kV	0	50	8	4	2021	
	52	ສະຖານີດຶງໂພສີ	230/115/ 22kV	800	100	10	4	2022	



ປຶ້ມສະຖິຕິ ລັດວິສາຫະກິດໄຟຟ້າລາວ 2022

				ກຳລັງຕິດເ	ຕັ້ງໜໍ້ແປງ	L	<u>.</u>		
ແຂວງ	ച/റ	ສະຖານີຕ່າງໆ	ແຮງດັນ	230/115	115/22	Feeder	Feeder Spare		້າອນ/ປີ ຄ.ະ
23			[kV]	kV [MVA]	kV [MVA]	Fe	Fe S	ນາ	ใຊ້
	53	ສະຖານີປາກຊັນ	115/22kV	0	46	5	0	2002	
	54	ສະຖານີຄອນສົງ	115/22kV	0	20	5	1	2012	
200	55	ສະຖານີທ່າສາລາ	115/22kV	0	20	4	0	2012	
ບໍລິຄຳໄຊ	56	ສະຖານີ ຫຼັກຊາວ	230/115/ 22kV	200	30	4	0	2014	
	57	ສະຖານີ ທ່າບົກ	230/115/ 22kV	100	30	2	0	2015	
<u>ສວາ</u>	<u>ຸມກຳລັງ</u>	<u>ງຕິດຕັ້ງທັງໝົດພາກໃຕ້</u>		<u>190</u>	<u>774</u>	<u>118</u>	<u>14</u>		
	58	ສະຖານີທ່າແຂກ	115/22kV	0	60	12	0	2004	
ຄຳມ່ວນ	59	ສະຖານີມະຫາໄຊ	115/22kV	0	40	5	1	2010	
อำ	60	ສະຖານີນ້ຳເທີນ 2	115/22kV	0	20	4	0	2010	
	61	ສະຖານີຫີນບູນ	115/22kV	0	30	4	0	2020	
Ç	62	ສະຖານີປາກບໍ່	115/22kV	0	40	7	1	1996	
ສະຫວັນນະເຂດ	63	ສະຖານີແກ້ງກອກ	115/22kV	0	40	4	0	2004	
) I	64	ສະຖານີໜອງເດີນ	115/22kV	0	100	8	0	2013	
ig.	65	ສະຖານີເຊໂນ	115/22kV	0	30	5	1	2017	
20	66	ສະຖານີເມືອງພິນ	115/22kV	0	20	4	0	2016	
	67	ສະຖານີບາງເຢາະ	115/22kV	0	50	8	0	1991	
5	68	ສະຖານີຈຽງໄຊ	115/22kV	0	60	3	0	2005	2022
จำให้ม	69	ສະຖານີປາກຊ່ອງ	115/22kV	0	30	10	0	2009	
عاد	70	ສະຖານີບ້ານນາ	115/22kV	0	30	8	5	2005	
	71	ສະຖານີບ້ານຫາດ	230/115/ 22kV	190	40	5	1	2019	2005
20	72	ສະຖານີນາທ່ອນ	115/22kV	0	40	7	1	2011	
สาละวับ	73	ສະຖານີເຕົາຖ່ານ	115/22kV	0	16	6	3	2021	2016
ર્જ	74	ສະຖານີເຂື່ອນເຊເສັດ1	115/22kV	0	8	3	1	2021	2016
ฮักตะปี	75	ສະຖານີສະເພົາທອງ	115/22kV	0	40	7	0	2006	
ເຊກອງ	76	ສະຖານີໜອງບົງ	115/22kV	0	80	8	0	2013	2022
	ລວ.	ມ <mark>ກຳລັງຕິດຕັ້ງ</mark>		4.100	3.112				
ລເ	ามมู	າລັງຕິດຕັ້ງທັງໝົດ		7.2	212				

ສະຖານີດົງໂພສີ ສຳເລັດກໍ່ສ້າງ ແຕ່ບໍ່ທັນເຊື່ອມກັບລະບົບ

6. High-voltage Substations Nationwide Year 2022

 Table 6: High-voltage Substations

		ingh-voltage 5th		Capa	acity				
Province	N/0	Substation	Voltage	230/115	115/22	Feeder	Feeder Spare	CO	ת
rov	Z	Substation	[kV]	kV	kV	Fee	Fee Sp		עי
Ь				[MVA]	[MVA]				
		Northern		<u>1.210</u>	<u>861</u>	<u>104</u>	<u>38</u>	No1	No2
ng y	1	Bountai	230/115k V	120	0	0	0	2015	
Phong saly	2	Boun Neua	115/22kV	0	30	3	0	2019	
	3	Meuang Khoua	115/22kV	0	30	2	4	2020	
	4	Thafar (Nam Thoung)	115/22kV	0	36	3	2	2017	
Bokeo	5	Houay xaiy	115/22kV	0	60	4	8	2018	
Bol	6	Pha ou-dom	230/115/2 2kV	400	30	2	2	2018	
	7	Tonpheung	115/22kV	0	50	4	1	2020	
Luang namtha	8	Ban Mai	115/22kV	0	20	6	0	2009	
Huaphan	9	Xamneua	115/22kV	0	42,7	6	0	2011	
Hua	10	Xamtai	230/115k V	50	0	5	0	2020	
	11	Na Mo 1	115/22kV	0	30	4	1	2009	
кау	12	Na Mo 2	230/115k V	120	0	0	0	2015	
Oudomxay	13	Nalae	115/22kV	0	50	5	3	2009	
pn(14	Meuang Nga	115/22kV	0	30	5	0	2017	
0	15	Meuang Houn	115/22kV	0	30	4	0	2021	
	16	Pakbeng	115/22kV	0	30	5	0	2017	
	17	Xayaboury	115/22kV	0	36	5	0	2003	
.E	18	Viengkeo	115/22kV	0	20	0	4	2015	
apn	19	Paklay	115/22kV	0	30	3	1	2016	
Xaiyaburi	20	Phonxai (S)	115/22kV	0	30	4	0	2020	
×	21	Kenthao (S)	115/22kV	0	20	2	2	2020	
	22	Xienghon (S)	115/22kV	0	30	4	0	2020	
b 0	23	Phonsavan	115/22kV	0	46	5	4	2003	
Xieng khuang	24	Nam Ngum 5	115/22kV	0	0	0	0	2012	
Xic	25	Meuang Kham	115/22kV	0	10	2	1	2019	
	26	Na hor	115/22kV	0	20	1	3	2020	



ປຶ້ມສະຖິຕິ ລັດວິສາຫະກິດໄຟຝ້າລາວ 2022

				Cap	acity	• .	• .		
vinc	N/0	Substation	Voltage	230/115	115/22	Feeder	Feeder Spare	CC	D
Province			[kV]	kV [MVA]	kV [MVA]	Fe	Fe Sp		
	27	Luangprabang 1	115/22kV	0	60	6	2	1996	
Luangprabang	28	Xieng Ngeun 2	230/115/ 22kV	400	30	4	0	2013	
gpra	29	Huaysaen 3	115/22kV	0	30	4	0	2011	
nan	30	Pakmong 1	115/22kV	0	30	6	0	2009	
L	31	Pakmong 2	230/115k V	120	0	0	0	2015	
	<u>C</u>	<u>Central</u>		<u>2.700</u>	<u>1.477</u>	<u>160</u>	<u>27</u>		
	32	Phonsoung	115/22kV	0	30	6	0	1990	
	33	Thalat	115/22kV	0	30	5	3	1972	
e	34	Hinheup	230/115/ 22kV	400	20	4	0	2011	
Vientiane	35	Ban Don	115/22kV	0	16	2	2	2003	
/ien	36	Non hai	115/22kV	0	16	3	0	2003	
	37	Vang Vieng	115/22kV	0	32	6	0	1994	
	38	Kasi	115/22kV	0	30	7	1	2014	
	39	Saensavang (Thalat 2)	230/115/ 22kV	400	20	3	3	2018	
unoquo	40	Tongkoun 2	115/22kV	0	25	2	0	2012	
Saison	41	Thavieng	230/115/ 22kV	200	20	3	0	2016	
	42	Phontong	115/22kV	0	200	17	0	1968	
	43	Thanaleng	115/22kV	0	110	11	1	2004	
	44	Khok sa-ad	115/22kV	0	102	11	0	2004	
d	45	Naxaythong	230/115/ 22kV	400	60	8	0	2004	
Ca	46	Donkoi	115/22kV	0	250	14	5	2012	2022
Vientiane Cap	47	Viengkeo	115/22kV	0	60	5	0	2012	
ient	48	Pakthang	115/22kV	0	100	7	0	2012	
	49	Nabong	230/115/ 22kV	200	30	6	1	2016	
	50	Vitapark	115/22kV	0	30	2	2	2016	
	51	Thasavang	115/22kV	0	50	8	4	2021	
	52	Dongphosy	230/115/ 22kV	800	100	10	4	2022	

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e .				Capa	acity				
vinc	N/0	Substation	Voltage	230/115	115/22	Feeder	Feeder Spare	CO	on of
Province	Z	Substation	[kV]	kV [MVA]	kV [MVA]	Fee	Fee Sp		,D
	53	Pakxan	115/22kV	0	46	5	0	2002	
Λ 1	54	Konsong	115/22kV	0	20	5	1	2012	
mxa	55	Thasala	115/22kV	0	20	4	0	2012	
Bolikhamxay	56	Lak 20 (pompik)	230/115/ 22kV	200	30	4	0	2014	
В	57	Thabok	230/115/ 22kV	100	30	2	0	2015	
	<u>So</u>	outhern		<u>190</u>	<u>774</u>	<u>118</u>	<u>14</u>		
	58	Thakhek	115/22kV	0	60	12	0	2004	
am	59	Mahaxai	115/22kV	0	40	5	1	2010	
Kham muan	60	Nam Theun 2	115/22kV	0	20	4	0	2010	
	61	Hinboun	115/22kV	0	30	4	0	2020	
	62	Pakbo	115/22kV	0	40	7	1	1996	
shet	63	Kengkok	115/22kV	0	40	4	0	2004	
nnal	64	Nongdeun	115/22kV	0	100	8	0	2013	
Savannakhet	65	Banmat (Seno)	115/22kV	0	30	5	1	2017	
S 2	66	Muang Phin	115/22kV	0	20	4	0	2016	
	67	Bang yo	115/22kV	0	50	8	0	1991	
sak	68	Jiengxai	115/22kV	0	60	3	0	2005	2022
Champasak	69	Pak Xong	115/22kV	0	30	10	0	2009	
han	70	Ban Na	115/22kV	0	30	8	5	2005	
0	71	Ban Hat	230/115/ 22kV	190	40	5	1	2019	2005
Saravan	72	Nathone (Saravan)	115/22kV	0	40	7	1	2011	
sara	73	Taothan	115/22kV	0	16	6	3	2021	2016
9 2	74	Xeset 1	115/22kV	0	8	3	1	2021	2016
Attapeu	75	Saphaothong	115/22kV	0	40	7	0	2006	
Xekong	76	Nongbong	115/22kV	0	80	8	0	2013	2022
	Ca	apacity		4.100	3.112				
T		Capacity		7.2	212				



7. ການຊົມໃຊ້ກຳລັງໄຟຟ້າສູງສຸດ

ຕາຕະລາງ 7: ການຊືມໃຊ້ກຳລັງໄຟຟ້າສູງສຸດ

ລ/ດ	ສາຂາແຂວງ	Off Peak (MW)	Peak (MW)
1	ຜົ້ງສາລີ	1.07	14.03
2	ຫລວງນ້ຳທາ	2.10	18.63
3	ອຸດົມໄຊ	0.01	15.21
4	ບໍ່ແກ້ວ	1.20	26.45
5	ຫົວພັນ	2.69	20.54
6	ຫຼວງພະບາງ	8.00	39.19
7	ໄຊຍະບູລີ	8.48	46.20
8	ຊຽງຂວາງ	1.18	24.20
9	ວຽງຈັນ	17.20	78.68
10	ຸເສສູກຄຳກ	1.71	12.45
11	ນະຄອນຫຼວງ 1+2	163.30	496.00
12	ບໍລິຄຳໄຊ	2.64	39.84
13	ຄຳມ່ວນ	2.13	57.17
14	ສະຫວັນນະເຂດ	9.76	107.48
15	จำปาສັກ	25.66	83.54
16	ສາລະວັນ	0.08	18.30
17	ເຊກອງ	0.16	10.19
18	ອັດຕະປີ	2.10	26.30
	Total	285.70	1,613.03

ໝາຍເຫດ: ຂໍ້ມູນຂອງນະຄອນຫຼວງວຽງຈັນ ແມ່ນລວມເອົາທັງຂອງສາຂານະຄອນຫຼວງ 1 ແລະ ສາຂານະຄອນຫຼວງ 2 ເຂົ້າ ລວມກັນ

7. Peak Load

Table 7: Peak Load

No.	Province	Off Peak (MW)	Peak (MW)
1	Phongsaly	1.07	14.03
2	Luangnamtha	2.10	18.63
3	Oudomxay	0.01	15.21
4	Bokeo	1.20	26.45
5	Huaphan	2.69	20.54
6	Luangprabang	8.00	39.19
7	Xaiyaburi	8.48	46.20
8	Xienkhuang	1.18	24.20
9	Vientiane	17.20	78.68
10	Saisomboun	1.71	12.45
11	Vientiane Cap 1+2 (Same time)	163.30	496.00
12	Bolikhamxay	2.64	39.84
13	Khammuan	2.13	57.17
14	Savannakhet	9.76	107.48
15	Champasak	25.66	83.54
16	Saravan	0.08	18.30
17	Xekong	0.16	10.19
18	Attapeu	2.10	26.30
	Total	285.70	1,613.03

Remark: The data for Vientiane Capital combines information from both Branch Vientiane Cap1 and Branch Vientiane Cap2.



8. ການນຳເຂົ້າໄຟຟ້າຜ່ານຈຸດເຊື່ອມຕໍ່ລະຫວ່າງປະເທດ

ຕາຕະລາງ 8: ການນຳເຂົ້າໄຟຟ້າ

ນຳເຂົ້າຈາກ	ഗ/ഭ	ຈຸດເຊື່ອມຕໍ່	ຈຸດເຊື່ອມຕໍ່ ແຮງດັນ ແຂວງ		GWh (2022)	ອັດຕາສ່ວນ
	I	ລວມຊື້ໄຟຟ້າຈາກໄທ	809.28	92.74%		
	1.1	ແກ່ນທ້າວ - ທ່າລື້	115 kV	ໄຊຍະບູລີ	100.54	11.52%
	1.2	ທ່ານາແລ້ງ - ໜອງຄາຍ	115 kV	ນະຄອນຫຼວງ	139.86	16.03%
	1.3	ດົງໂພສີ - ໜອງຄາຍ 1	ດົງໂພສີ - ໜອງຄາຍ 1 115 kV ນະຄອນຫຼວງ		87.43	10.02%
ລູ	1.4	ດົງໂພສີ - ໜອງຄາຍ 2	115 kV	ນະຄອນຫຼວງ	88.13	10.10%
รุ้จาทไท	1.5	ปากຊັນ - บ๊ากาน	115 kV	ບໍລິຄຳໄຊ	12.12	1.39%
.60€	1.6	ທ່າແຂກ - ນະຄອນພະນົມ 1	115 kV	ຄຳມ່ວນ	123.55	14.16%
	1.7	ທ່າແຂກ - ນະຄອນພະນົມ 2	115 kV	ຄຳມ່ວນ	124.95	14.32%
	1.8	ປາກບໍ່ - ມຸກດາຫານ	115 kV	ສະຫວັນນະເຂດ	95.84	10.98%
	1.9	ບາງເຢາະ - ສິຣິນທອນ 1	115 kV	ຈຳປາສັກ	32.91	3.77%
	1.10	ບາງເຢາະ - ສິຣິນທອນ 2	115 kV	ຈຳປາສັກ	3.97	0.45%
	II	ລວມຊື້ໄຟຝ້າຈາກ ສປ ຈີນ	14.44	1.65%		
£	2.1	(ເມືອງຫຼາ - ນາໜໍ້) ອຸດົມໄຊ	115 kV	ອຸດົມໄຊ	12.87	1.47%
รุจาทจับ	2.2	(ເມືອງຍອດອຸ) ຜົ້ງສາລີ	22 kV	ຜົ້ງສາລີ	0.19	0.02%
<i>₁</i> 60/∟	2.3	(ປາງທອງ) ຫຼວງນ້ຳທາ	22 kV ຫຼວງນ້ຳທາ		1.38	0.16%
	2.4	(ບໍ່ເຕັນ) ຫຼວງນ້ຳທາ	35 kV ຫຼວງນ້ຳທາ		-	0.00%
	III ລວມຊື້ໄຟຝ້າຈາກ ຫວຽດນາມ				48.94	5.61%
⊐	3.1	ຜົ້ງສາລີ	22 kV	ຜົ້ງສາລີ	0.01	0.00%
ัเนบ	3.2	(ປ່າຮ່າງ) ຫົວພັນ	35 kV	ຫົວພັນ	0.50	0.06%
ຊື່ຈາກຫວຽດນາມ	3.3	ສະຫວັນນະເຂດ	22 kV	ສະຫວັນນະເຂດ	2.93	0.34%
80C	3.4	ສາລະວັນ	35 kV	ສາລະວັນ	1.87	0.21%
~ ~6 U	3.5	อักตะป <u>ี</u>	22 kV	ອັດຕະປື	43.61	5.00%
	3.6	ເຊກອງ	ເຊກອງ	0.02	0.00%	
	6	872.66	100.00%			

8. Electricity Import via cross-border interconnection points

 Table 8: Import electricity

From	No	Grid to Grid	Voltage Province		GWh (2022)	Percent
	I	Import from Thailand			809.28	92.74%
	1.1	Kenthao - Tha Li	115 kV	Xaiyaburi	100.54	11.52%
	1.2	Thanaleng - Nong Khai	115 kV	Vientiane Cap	139.86	16.03%
	1.3	Dongphosy - Nong Khai 1	87.43	10.02%		
pı	1.4	Dongphosy - Nong Khai 2	115 kV	Vientiane Cap	88.13	10.10%
Thailand	1.5	Pakxan - Bung Kan	115 kV	Bolikhamxay	12.12	1.39%
Th	1.6	Thakhek - Nakhon Phanom 1	115 kV	Khammuan	123.55	14.16%
	1.7	Thakhek - Nakhon Phanom 2	115 kV	Khammuan	124.95	14.32%
	1.8	Pakbo - Mukdahan	115 kV	Savannakhet	95.84	10.98%
	1.9	Bangyo - Sirindhon 1 115 kV Champasak		Champasak	32.91	3.77%
	1.10	Bangyo - Sirindhon 2	115 kV	Champasak	3.97	0.45%
	II	Import from China	14.44	1.65%		
ಡ	2.1	Namo - Dongmeng	115 kV	Oudomxay	12.87	1.47%
China	2.2	Gnot-Ou	22 kV	Phongsaly	0.19	0.02%
	2.3	Pangthong	22 kV Luangnamtha		1.38	0.16%
	2.4	Boten	35 kV	Luangnamtha	-	0.00%
	III	III Import from Vietnam				5.61%
	3.1	Pang Hok - Dien Bien	22 kV	Phongsaly	0.01	0.00%
Ш	3.2	Pa Hang - Son La	35 kV	Huaphan	0.50	0.06%
Vietnam	3.3	Lao Bao	22 kV	Savannakhet	2.93	0.34%
Vi	3.4	Samuay - Are Ngor	35 kV	Saravan	1.87	0.21%
	3.5	Phovong - Ber E	22 kV	Attapeu	43.61	5.00%
	3.6	0.02	0.00%			
	,	872.66	100.00%			



9. ການສິ່ງອອກໄຟຝ້າຜ່ານຈຸດເຊື່ອມຕໍ່ລະຫວ່າງປະເທດ

ຕາຕະລາງ 9: ການສິ່ງອອກໄຟຟ້າ

ສ່ງອອກ	U/C	ຈຸດເຊື່ອມຕໍ່	ຈຸດເຊື່ອມຕໍ່ ຜູ້ ແຂວງ			ອັດຕາສ່ວນ
	I	ຂາຍໃຫ້ໄທ	2,520.78	45.44%		
	1.1	ແກ່ນທ້າວ - ທ່າລີ້	115 kV	ໄຊຍະບູລີ	260.79	4.70%
	1.2	ທ່ານາແລ້ງ - ໜອງຄາຍ	115 kV	ນະຄອນຫຼວງ	204.44	3.69%
	1.3	ດຶງໂພສີ - ໜອງຄາຍ 1	115 kV	ນະຄອນຫຼວງ	439.88	7.93%
ລູ	1.4	ດຶງໂພສີ - ໜອງຄາຍ 2	115 kV	ນະຄອນຫຼວງ	442.24	7.97%
ສິ່ງໄປໄທ	1.5	ປາກຊັນ - ບຶງການ	115 kV	ບໍລິຄຳໄຊ	392.96	7.08%
-608	1.6	ທ່າແຂກ - ນະຄອນພະນົມ 1	115 kV	ຄຳມ່ວນ	51.68	0.93%
	1.7	ທ່າແຂກ - ນະຄອນພະນິມ 2	115 kV	ຄຳມ່ວນ	51.16	0.92%
	1.8	ปากข่ - มุกดาตาม	115 kV	ສະຫວັນນະເຂດ	303.66	5.47%
	1.9	ບາງເຢາະ - ສິຣິນທອນ 1	115 kV	115 kV จำปาสัก		4.55%
	1.10	ບາງເຢາະ - ສິຣິນທອນ 2	115 kV	ຈຳປາສັກ	121.79	2.20%
Jan Jan	II	ຂາຍໃຫ້ ສປ ຈີນ	82.60	1.49%		
ສິ່ງໂປຈີນ	2.1	(ເມືອງຫຼາ-ນາໝໍ່) ອຸດົມໄຊ	82.60	1.49%		
	III	ຂ ายใช้ ภำปูเ จย			2,734.63	49.29%
اراه	3.1	ບ້ານຫາດ - ສະຕັງເຕິງ	230 kV	ຈຳປາສັກ	2,537.09	45.73%
ສິ່ງໄປກຳປູເ	3.2	ບ້ານຫາດ - ພາວເວີເຮີຍ	115 kV	จำปาสัก	193.07	3.48%
3	3.3	ໜອງນິກຂຽນ	22 kV	ຈຳປາສັກ	3.68	0.07%
	3.4	ເວິນຢາງ - ສາຂາຈຳປາສັກ	22 kV	ຈຳປາສັກ	0.79	0.01%
ใน้า	IV	ຂາຍໃຫ້ ມຽນມາ	ໃຫ້ ມຽນມາ			
ສິ່ງໄປມຽນມ້າ	4.1	ສະຖານີຕິ້ນເຜິ້ງ - ມຽນມາ	115 kV	ບໍ່ແກ້ວ	26.37	0.48%
3	4.2	2.48	0.04%			
	V. ສິ່ງ	180.64	3.26%			
	ລວມທັ	5,547.50	100%			

9. Electricity Export via cross-border interconnection points

 Table 9: Export electricity

Export	No	Gird to Grid	GWh (2022)	Percent		
	I	Export to Thailand			2,520.78	45.44%
	1.1	Kenthao - Tha Li	115 kV	Xaiyaburi	260.79	4.70%
	1.2	Thanaleng - Nong Khai	115 kV	Vientiane Cap	204.44	3.69%
	1.3	Dongphosy - Nong Khai 1 115		Vientiane Cap	439.88	7.93%
pu	1.4	Dongphosy - Nong Khai 2	115 kV	Vientiane Cap	442.24	7.97%
Thailand	1.5	Pakxan - Bung Kan	115 kV	Bolikhamxay	392.96	7.08%
The	1.6	Thakhek - Nakhon Phanom 1	115 kV	Khammuan	51.68	0.93%
	1.7	Thakhek - Nakhon Phanom 2	115 kV	Khammuan	51.16	0.92%
	1.8	Pakbo - Mukdahan	115 kV	Savannakhet	303.66	5.47%
	1.9	Bangyo - Sirindhon 1 115 kV Champasa		Champasak	252.17	4.55%
	1.10	Bangyo - Sirindhon 2	115 kV	Champasak	121.79	2.20%
China	II	Export to China	82.60	1.49%		
5	2.1	Oudomxay	82.60	1.49%		
	III	Export to Cambodia			2,734.63	49.29%
odia	3.1	Ban Hat - Stung Treng	230 kV	Champasak	2,537.09	45.73%
oqu	3.2	Ban Hat - Khampongsalao	115 kV	Champasak	193.07	3.48%
Cambo	3.3	Nongnokkien - Stun Treng	22 kV	Champasak	3.68	0.07%
	3.4	Vernyang	22 kV	22 kV Champasak		0.01%
nar	IV	Export to Myanmar			28.85	0.52%
Myanmar	4.1	Tonpherng - Myanmar	115 kV	Bokeo	26.37	0.48%
My	4.2	2.48	0.04%			
	V. Ex	180.64	3.26%			
	Total	5,547.50	100%			

10. ການນຳເຂົ້າ ແລະ ສິ່ງອອກໄຟຟ້າ

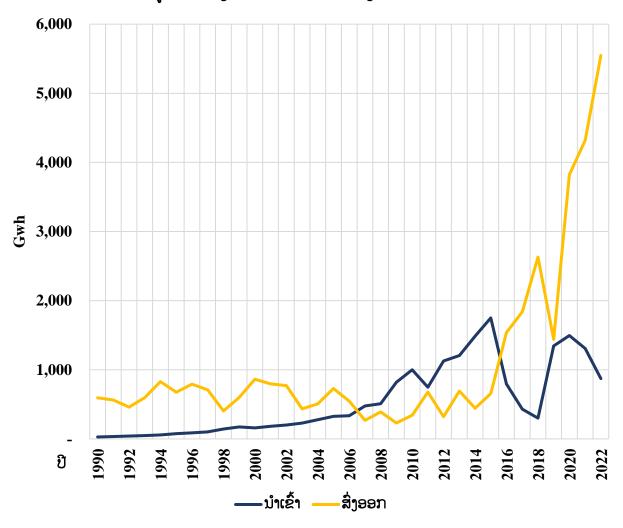
ໃນ ສປປ ລາວ ແມ່ນໄດ້ມີການນຳເຂົ້າ ແລະ ສິ່ງອອກໄຟຟ້າ ໄປຕ່າງປະເທດ ໃນປີ 2022 ຟຟລ ໄດ້ ສິ່ງ ອອກໄປຕ່າງປະເທດທັງໝົດ 5,547.50 GWh ແລະ ນຳເຂົ້າ 872.66 GWh.

ຕາຕະລາງ 10: ການນຳເຂົ້າ ແລະ ສິ່ງອອກໄຟຟ້າ ຂອງ ຟຟລ

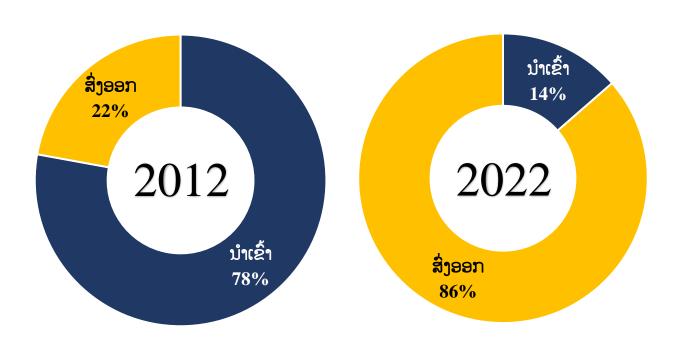
ปี	ນຳເຂົ້າ (GWh)	ສິ່ງອອກ (GWh)
1990	27.73	595.19
1991	34.90	562.59
1992	41.27	459.82
1993	47.70	595.79
1994	57.46	829.25
1995	76.83	675.55
1996	87.56	792.43
1997	101.65	710.21
1998	142.06	405.20
1999	172.20	598.14
2000	159.92	862.94
2001	182.50	796.38
2002	200.80	771.43
2003	229.34	434.66
2004	277.59	507.05
2005	325.98	727.76
2006	334.55	547.05
2007	475.94	267.97
2008	509.95	391.79
2009	818.63	229.53
2010	998.98	341.29
2011	747.90	678.31
2012	1,127.33	320.38
2013	1,205.05	690.83
2014	1,486.46	444.62
2015	1,750.38	655.41
2016	792.77	1,538.34
2017	430.52	1,837.37
2018	300.50	2,630.18
2019	1,344.74	1,439.34
2020	1,494.28	3,822.05
2021	1,307.47	4,320.39
2022	872.66	5,547.50

ແຫຼ່ງຂໍ້ມູນ: ອ້າງອີງຈາກປຶ້ມສະຖິຕິປະຈຳປີ ແລະ ຂໍ້ມູນຈາກໃບຮຽກເກັບເງິນ (Invoice) ປະຈຳເດືອນ

ຮູບສະແດງ 5: ນຳເຂົ້າ ແລະ ສີ່ງອອກໄຟຟ້າ



ຮຸບສະແດງ 6: ສີມທຽບອັດຕາສ່ວນນຳເຂົ້າ ແລະ ສີ່ງອອກ ໄຟຟ້າ



10. Electricity Imports and Exports

In Lao PDR has engaged in the import and export of electricity to foreign countries, in 2022 EDL exported 5,547.50 GWh and imported 872.66 GWh.

Table 10: Import and Export electricity of EDL

1990 27.73 595.19 1991 34.90 562.59 1992 41.27 459.82 1993 47.70 595.79 1994 57.46 829.25 1995 76.83 675.55 1996 87.56 792.43 1997 101.65 710.21 1998 142.06 405.20 1999 172.20 598.14 2000 159.92 862.94 2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38		Import and Export electricity of ED	
1991 34.90 562.59 1992 41.27 459.82 1993 47.70 595.79 1994 57.46 829.25 1995 76.83 675.55 1996 87.56 792.43 1997 101.65 710.21 1998 142.06 405.20 1999 172.20 598.14 2000 159.92 862.94 2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83	Year	Import (GWh)	Export (GWh)
1992 41.27 459.82 1993 47.70 595.79 1994 57.46 829.25 1995 76.83 675.55 1996 87.56 792.43 1997 101.65 710.21 1998 142.06 405.20 1999 172.20 598.14 2000 159.92 862.94 2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016			
1993 47.70 595.79 1994 57.46 829.25 1995 76.83 675.55 1996 87.56 792.43 1997 101.65 710.21 1998 142.06 405.20 1999 172.20 598.14 2000 159.92 862.94 2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41	1991		
1994 57.46 829.25 1995 76.83 675.55 1996 87.56 792.43 1997 101.65 710.21 1998 142.06 405.20 1999 172.20 598.14 2000 159.92 862.94 2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34	1992	41.27	459.82
1995 76.83 675.55 1996 87.56 792.43 1997 101.65 710.21 1998 142.06 405.20 1999 172.20 598.14 2000 159.92 862.94 2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 <th>1993</th> <th>47.70</th> <th>595.79</th>	1993	47.70	595.79
1996 87.56 792.43 1997 101.65 710.21 1998 142.06 405.20 1999 172.20 598.14 2000 159.92 862.94 2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18	1994	57.46	829.25
1997 101.65 710.21 1998 142.06 405.20 1999 172.20 598.14 2000 159.92 862.94 2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,4	1995	76.83	675.55
1998 142.06 405.20 1999 172.20 598.14 2000 159.92 862.94 2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39 <th>1996</th> <th>87.56</th> <th>792.43</th>	1996	87.56	792.43
1999 172.20 598.14 2000 159.92 862.94 2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47	1997	101.65	710.21
2000 159.92 862.94 2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	1998	142.06	405.20
2001 182.50 796.38 2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	1999	172.20	598.14
2002 200.80 771.43 2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2000	159.92	862.94
2003 229.34 434.66 2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2001	182.50	796.38
2004 277.59 507.05 2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2002	200.80	771.43
2005 325.98 727.76 2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2003	229.34	434.66
2006 334.55 547.05 2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2004	277.59	507.05
2007 475.94 267.97 2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2005	325.98	727.76
2008 509.95 391.79 2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2006	334.55	547.05
2009 818.63 229.53 2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2007	475.94	267.97
2010 998.98 341.29 2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2008	509.95	391.79
2011 747.90 678.31 2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2009	818.63	229.53
2012 1,127.33 320.38 2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2010	998.98	341.29
2013 1,205.05 690.83 2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2011	747.90	678.31
2014 1,486.46 444.62 2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2012	1,127.33	320.38
2015 1,750.38 655.41 2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2013	1,205.05	690.83
2016 792.77 1,538.34 2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2014	1,486.46	444.62
2017 430.52 1,837.37 2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2015	1,750.38	655.41
2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2016	792.77	1,538.34
2018 300.50 2,630.18 2019 1,344.74 1,439.34 2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2017	430.52	1,837.37
2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2018	300.50	2,630.18
2020 1,494.28 3,822.05 2021 1,307.47 4,320.39	2019	1,344.74	1,439.34
2021 1,307.47 4,320.39		1,494.28	3,822.05
	2021	1,307.47	4,320.39
2022 872.66 5,547.50		872.66	5,547.50

Source: Statistic year book of EDL and Invoice Monthly

Figure 5: Electricity Imports and Exports

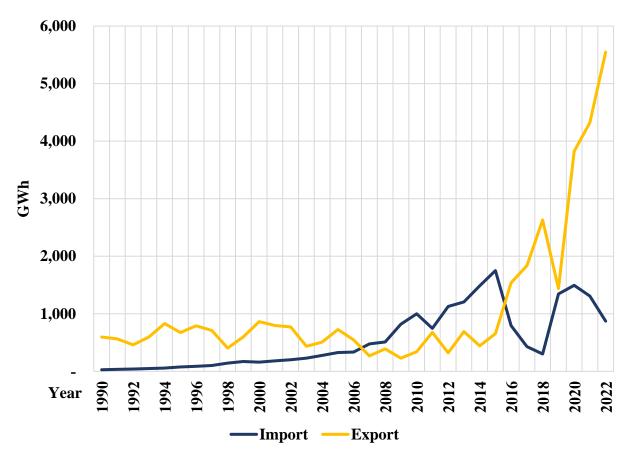
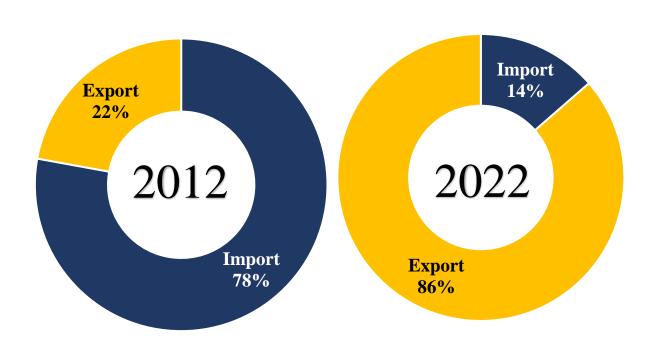


Figure 6: Comparation Import and Export Electricity





11. ການຊົມໃຊ້ໄຟຝ້າ ຂອງແຕ່ລະປະເພດລູກຄ້າ

ສະຖິຕິ ການຊົມໃຊ້ໄຟຝ້າພາຍໃນ ຂອງ ສປປລາວ ແມ່ນໄດ້ຈັດແບ່ງປະເພດຂອງລູກຄ້າອອກທັງໝົດ 8 ປະເພດ (ຮອດປີ 2022) ໂດຍໃນນັ້ນ ແມ່ນພາກທີ່ຢູ່ອາໃສ ແມ່ນຊົມໃຊ້ໄຟຟ້າທັງໝົດ 2,231 GWh ກວມເອົາ 24% ແລະ ພາກອຸດສາຫະກຳ 5,984 GWh ກວມເອົາ 62%

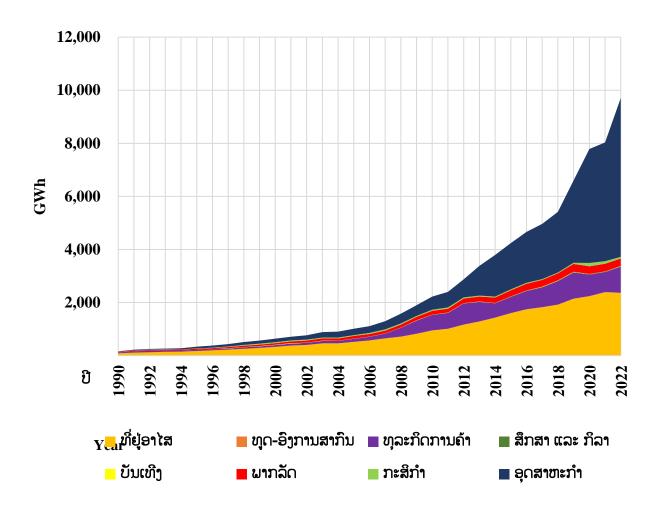
ຕາຕະລາງ 11: ການຊືມໃຊ້ໄຟຟ້າຂອງລູກຄ້າແຕ່ລະປະເພດ

Unit GWh

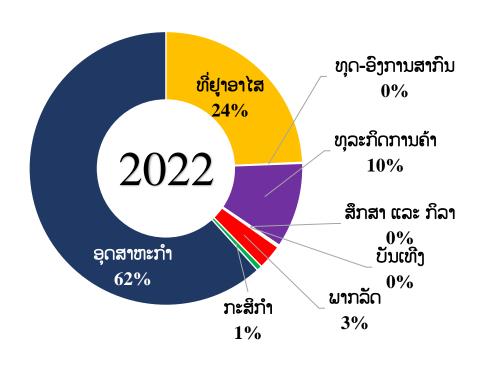
								UIII	t GWh
Year	ທີ່ຢູ່ອາໄສ	ທູດ- ອິງການ	ທຸລະກິດ ການຄ້າ	್ಟಿ ಸಿನಾ ಬಿಗಿ	ຫຸລະກິດ ບັນເທີງ	ພາກລັດ ບໍລິຫານ	าะสี่เก๋	รูกสาขะ ภำ	ລວມ ທັງໝິດ
1990	77.63	9.19	35.29	-	ı	22.31	5.88	14.28	164.58
1991	107.28	8.42	45.45	1	ı	30.79	8.68	20.05	220.67
1992	119.54	9.01	58.34	1	1	28.48	11.99	25.38	252.74
1993	135.26	7.55	45.75	1	ı	33.69	10.43	32.11	264.79
1994	144.98	7.53	39.03	1	1	34.79	7.70	45.42	279.44
1995	170.19	7.46	38.83	1	1	42.92	13.59	64.48	337.47
1996	192.64	8.08	40.70	-	1	44.72	13.44	79.96	379.54
1997	218.29	8.10	40.09	1	9.70	49.62	16.97	91.09	433.86
1998	252.22	8.58	50.11	-	10.69	54.44	29.63	107.60	513.27
1999	285.05	7.71	58.55	1	11.07	54.46	33.91	114.79	565.55
2000	324.69	7.48	67.80	-	11.84	59.80	33.41	134.83	639.86
2001	371.41	10.93	72.44	-	12.71	67.21	40.75	134.88	710.33
2002	394.56	7.56	78.14	-	10.22	77.48	34.80	163.97	766.74
2003	454.48	8.20	94.98	-	7.50	83.41	31.75	203.42	883.74
2004	455.26	8.40	93.61	-	5.15	82.28	39.42	218.64	902.76
2005	510.60	8.63	115.53	-	5.81	98.63	35.33	236.54	1,011.07
2006	565.24	8.22	138.18	-	6.77	96.59	39.68	257.73	1,112.41
2007	642.49	8.58	180.77	-	7.20	103.75	46.86	308.75	1,298.41
2008	706.74	9.32	332.14	-	7.14	112.79	44.37	365.37	1,577.86
2009	813.58	9.91	499.73	-	8.34	126.98	39.04	403.71	1,901.30
2010	942.64	10.32	584.36	-	7.97	145.76	42.52	494.59	2,228.15
2011	1,004.07	9.43	598.74	-	7.78	149.07	46.19	584.09	2,399.36
2012	1,160.98	10.43	796.63	3.01	8.83	173.89	39.45	680.99	2,874.21
2013	1,278.42	10.47	732.96	7.37	9.16	189.15	35.22	1,118.21	3,380.96
2014	1,424.15	12.99	532.06	8.38	9.49	204.24	35.61	1,564.41	3,791.33
2015	1,594.65	12.34	603.94	11.61	10.64	228.06	32.59	1,745.32	4,239.16
2016	1,735.17	12.81	683.32	14.66	11.33	252.21	34.24	1,916.38	4,660.11
2017	1,814.46	12.07	742.70	15.56	11.64	255.93	27.46	2,086.51	4,966.32
2018	1,913.39	12.22	879.13	16.69	12.12	267.72	29.14	2,286.23	5,416.63
2019	2,135.78	12.36	979.75	19.25	12.07	295.66	41.88	3,099.07	6,595.81
2020	2,231.06	11.55	808.16	18.94	8.56	287.77	125.71	4,294.44	7,786.18
2021	2,381.19	12.00	756.64	15.45	7.46	290.19	95.61	4,473.64	8,032.18
2022	2,357.35	11.29	977.60	19.70	9.00	284.13	61.57	5,984.34	9,704.97

ແຫຼ່ງຂໍ້ມຸນ: ອ້າງອີງຈາກປຶ້ມສະຖິຕິປະຈຳປີ ແລະ ຂໍ້ມູນຈາກລະບົບ BS2000

ຮູບສະແດງ 7: ภามຊิมใຊ้ ไปฝ้า แต่ละปะเผกลุกถ้า



ຮຸບສະແດງ 8: ภาบຊิมใຊ้ไฟฝ้า แต่ละปะเผดลุกถ้า ปี 2022



11. Electricity Consumption by Sector

The statistic of domestic electricity consumption of Lao PDR was divided into 8 types of customers (up to the year 2022). One of those types is residential sector which consumed 2,357 GWh (24%) and another one of those is industrial sector consumed 5,984 GWh (62%)

Table 11: consumption electricity of customer by sector

Unit GWh

	Unit GWh								
Year	Resident	Ambassador & organize	Commercial	Education and Sport	Entertain	Government	Agriculture	Industry	Total
1990	77.63	9.19	35.29	-	-	22.31	5.88	14.28	164.58
1991	107.28	8.42	45.45	-	-	30.79	8.68	20.05	220.67
1992	119.54	9.01	58.34	-	-	28.48	11.99	25.38	252.74
1993	135.26	7.55	45.75	-	-	33.69	10.43	32.11	264.79
1994	144.98	7.53	39.03	-	-	34.79	7.70	45.42	279.44
1995	170.19	7.46	38.83	-	-	42.92	13.59	64.48	337.47
1996	192.64	8.08	40.70	-	-	44.72	13.44	79.96	379.54
1997	218.29	8.10	40.09	1	9.70	49.62	16.97	91.09	433.86
1998	252.22	8.58	50.11	-	10.69	54.44	29.63	107.60	513.27
1999	285.05	7.71	58.55	-	11.07	54.46	33.91	114.79	565.55
2000	324.69	7.48	67.80	-	11.84	59.80	33.41	134.83	639.86
2001	371.41	10.93	72.44	-	12.71	67.21	40.75	134.88	710.33
2002	394.56	7.56	78.14	-	10.22	77.48	34.80	163.97	766.74
2003	454.48	8.20	94.98	-	7.50	83.41	31.75	203.42	883.74
2004	455.26	8.40	93.61	-	5.15	82.28	39.42	218.64	902.76
2005	510.60	8.63	115.53	-	5.81	98.63	35.33	236.54	1,011.07
2006	565.24	8.22	138.18	-	6.77	96.59	39.68	257.73	1,112.41
2007	642.49	8.58	180.77	-	7.20	103.75	46.86	308.75	1,298.41
2008	706.74	9.32	332.14	-	7.14	112.79	44.37	365.37	1,577.86
2009	813.58	9.91	499.73	-	8.34	126.98	39.04	403.71	1,901.30
2010	942.64	10.32	584.36	-	7.97	145.76	42.52	494.59	2,228.15
2011	1,004.07	9.43	598.74	-	7.78	149.07	46.19	584.09	2,399.36
2012	1,160.98	10.43	796.63	3.01	8.83	173.89	39.45	680.99	2,874.21
2013	1,278.42	10.47	732.96	7.37	9.16	189.15	35.22	1,118.21	3,380.96
2014	1,424.15	12.99	532.06	8.38	9.49	204.24	35.61	1,564.41	3,791.33
2015	1,594.65	12.34	603.94	11.61	10.64	228.06	32.59	1,745.32	4,239.16
2016	1,735.17	12.81	683.32	14.66	11.33	252.21	34.24		4,660.11
2017	1,814.46	12.07	742.70	15.56	11.64	255.93	27.46	2,086.51	4,966.32
2018	1,913.39	12.22	879.13	16.69	12.12	267.72	29.14	2,286.23	5,416.63
2019	2,135.78	12.36	979.75	19.25	12.07	295.66	41.88	3,099.07	6,595.81
2020	2,231.06	11.55	808.16	18.94	8.56	287.77	125.71	4,294.44	7,786.18
2021	2,381.19	12.00	756.64	15.45	7.46	290.19	95.61	4,473.64	8,032.18
2022	2,357.35	11.29	977.60	19.70	9.00	284.13	61.57	5,984.34	9,704.97

Source: Statistic EDL year book and BS2000

Figure 7: Electricity Consumption by Sector (GWh)

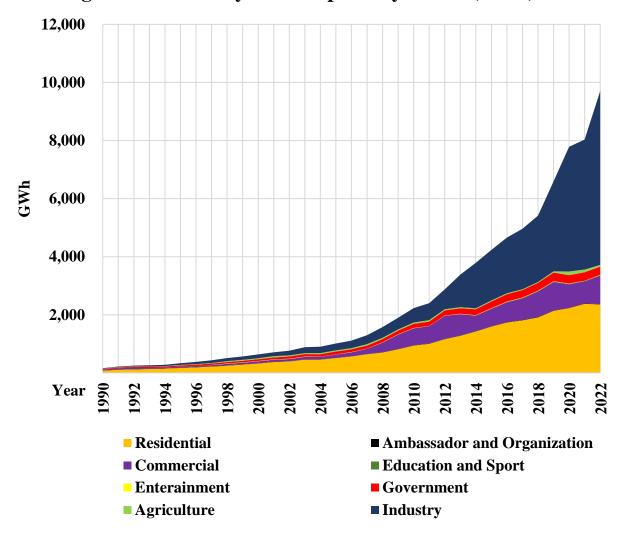
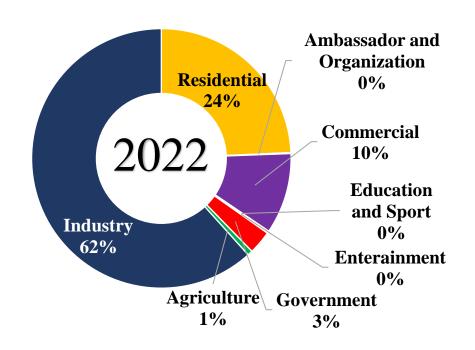


Figure 8: Electricity Consumption by Sector in 2022



12. ອັດຕາການເຕີບໂຕສະເລ່ຍຕໍ່ປີ (%)

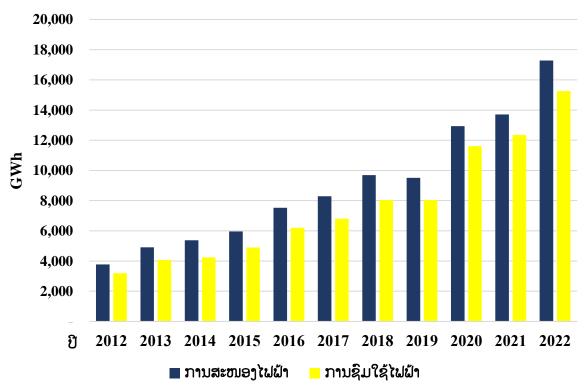
ອັດຕາການເຕີບໂຕສະເລ່ຍ ແມ່ນການສືມທຽບການເພີ່ມຂື້ນ ຫຼື ຫຼຸດລົງ ໃນແຕ່ລະປີ ຂອງການສະ ໜອງໄຟຟ້າ ແລະ ການຊືມໃຊ້ໄຟຟ້າ ໃນແຕ່ລະປີ

ຕາຕະລາງ 12: ອັດຕາການເຕີບໂຕທາງດ້ານການສະໜອງ ແລະ ການຊົມໃຊ້ໄຟຟ້າຕໍ່ປີ

ปิ		ຫອງໄຟຟ້າ າຍໃນ-ນຳເຂົ້າ)	ຄວາມຕ້ອງການໄຟຝ້າ (ຈຳໜ່າຍພາຍໃນ ແລະ ສິ່ງອອກ)		
0	Total GWh	ອັດຕາການ ເຕີບໂຕຕໍ່ ປີ	Total GWh	ອັດຕາການ ເຕີບໂຕ ຕໍ່ ປີ	
2012	3,769.2	-	3,194.6	-	
2013	4,912.9	30%	4,071.8	27%	
2014	5,372.8	9%	4,235.9	4%	
2015	5,960.1	11%	4,894.6	16%	
2016	7,528.0	26%	6,198.4	27%	
2017	8,291.0	10%	6,803.7	10%	
2018	9,687.3	17%	8,046.8	18%	
2019	9,511.0	-2%	8,035.1	0%	
2020	12,936.7	36%	11,608.2	44%	
2021	13,712.6	6%	12,352.6	6%	
2022	17,277.6	26%	15,252.5	23%	

ແຫຼ່ງຂໍ້ມູນ: ອ້າງອີງຈາກປຶ້ມສະຖິຕິປະຈຳປີ. ໃບຮຽກເກັບເງິນ (Invoice) ແລະ ຂໍ້ມູນຈາກລະບົບ BS2000

ຮູບສະແດງ 9: ການສະໜອງ ແລະ ຄວາມຕ້ອງການຊືມໃຊ້



12. Average Annual Growth Rate (%)

Average Annual growth rate is comparation growth rate of electricity supply and electricity consumption in each year

Table 12: Average Annual Growth Rate of Electricity Supply and Electricity Consumption

Year	(Generate-I	ity Supply Buy Domestic mport)	Electricity Demand (Sale Domestic and Export)		
	Total GWh	Growth rate Per year	Total GWh	Growth rate Per year	
2012	3,769.2	-	3,194.6	-	
2013	4,912.9	30%	4,071.8	27%	
2014	5,372.8	9%	4,235.9	4%	
2015	5,960.1	11%	4,894.6	16%	
2016	7,528.0	26%	6,198.4	27%	
2017	8,291.0	10%	6,803.7	10%	
2018	9,687.3	17%	8,046.8	18%	
2019	9,511.0	-2%	8,035.1	0%	
2020	12,936.7	36%	11,608.2	44%	
2021	13,712.6	6%	12,352.6	6%	
2022	17,277.6	26%	15,252.5	23%	

Source: Statistic EDL year book. Invoice and BS2000

20,000 18,000 16,000 14,000 12,000 10,000 8,000 6,000 4,000 2,000 Year 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

■ Supply ■ Demand

Figure 9: Supply and Demand

13. ການສະໜອງ ແລະ ການຊົມໃຊ້ໄຟຟ້າ ສະເລ່ຍຕໍ່ຫົວຄົນ

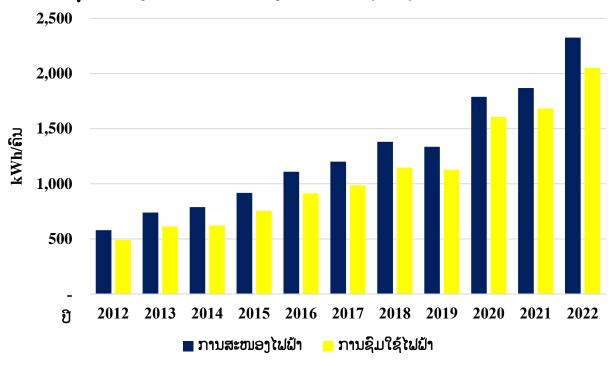
ແມ່ນການສະເລ່ຍພະລັງງານເບື້ອງການສະໜອງໄຟຝ່າ ເຊັ່ນ: ການຜະລິດ. ການຊື້ຈາກພາກເອກະຊົນ ແລະ ນຳເຂົ້າຈາກຕ່າງປະເທດ ມາສະເລ່ຍຕໍ່ກັບປະຊາກອນໃນແຕ່ລະປີ. ການສະເລ່ຍເບື້ອງການຊົມໃຊ້ໄຟຝ້າ ແມ່ນ ການສະເລ່ຍຈາກການຈຳໜ່າຍພາຍໃນ ແລະ ການສິ່ງອອກໄປຕ່າງປະເທດ ມາສະເລ່ຍກັບປະຊາກອນ

ຕາຕະລາງ 13: ສະເລ່ຍການສະໜອງໄຟຝ້າ ແລະ ການຊືມໃຊ້ໄຟຝ້າ ຕໍ່ຫົວຄົນ ປະຈຳປີ

Year	ປະຊາກອນ	ການສະຫ (ຜະລິດ-ຊື້ພາ		ຄວາມຕ້ອງການໄຟຟ້າ (ຈຳໜ່າຍພາຍໃນ ແລະ ສີ່ງອອກ)		
1 cai	(ລ້ານຄືນ)	ທັງໝົດ GWh	kWh/ຕໍ່ຄົນ	ทัງໝົດGWh	kWh/ຕໍ່ຄືນ	
2012	6.51	3,769.2	578.64	3,194.6	490.42	
2013	6.64	4,912.9	739.44	4,071.8	612.85	
2014	6.81	5,372.8	789.07	4,235.9	622.11	
2015	6.49	5,960.1	918.06	4,894.6	753.94	
2016	6.79	7,528.0	1,109.17	6,198.4	913.28	
2017	6.90	8,291.0	1,201.42	6,803.7	985.90	
2018	7.01	9,687.3	1,381.33	8,046.8	1,147.41	
2019	7.12	9,511.0	1,335.25	8,035.1	1,128.06	
2020	7.23	12,936.7	1,789.07	11,608.2	1,605.34	
2021	7.34	13,712.6	1,868.71	12,352.6	1,683.37	
2022	7.43	17,277.6	2,325.39	15,252.5	2,052.82	

ແຫຼ່ງຂໍ້ມູນ: ອ້າງອີງຈາກປຶ້ມສະຖິຕິປະຈຳປີ. ໃບຮຽກເກັບເງິນ (Invoice) ແລະ ຂໍ້ມູນຈາກລະບົບ BS2000

ຮູບສະແດງ 10: ການສະໜອງ ແລະ ການຊົມໃຊ້ໄຟຟ້າ ຕໍ່ຫົວຄົນ



13. Electricity Supply & Consumption Per Capita

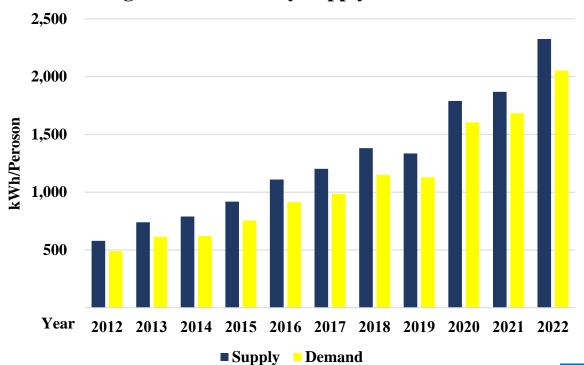
Is to average the electricity supply which includes production, private sector and imports from abroad. This total is then averaged with the population for each year. The average electricity consumption is determined by calculating the total electricity distributed domestically and the electricity exported abroad, and subsequently averaging this figure against the population.

Table 13: Average supply and consumption electricity per capita

Year	Population (Million)	(Generate-l	ity Supply Buy Domestic mport)	Electricity Demand (Sale Domestic and Export)		
		Total GWh	kWh/ person	Total GWh	kWh/ person	
2012	6.51	3,769.2	578.64	3,194.6	490.42	
2013	6.64	4,912.9	739.44	4,071.8	612.85	
2014	6.81	5,372.8	789.07	4,235.9	622.11	
2015	6.49	5,960.1	918.06	4,894.6	753.94	
2016	6.79	7,528.0	1,109.17	6,198.4	913.28	
2017	6.90	8,291.0	1,201.42	6,803.7	985.90	
2018	7.01	9,687.3	1,381.33	8,046.8	1,147.41	
2019	7.12	9,511.0	1,335.25	8,035.1	1,128.06	
2020	7.23	12,936.7	1,789.07	11,608.2	1,605.34	
2021	7.34	13,712.6	1,868.71	12,352.6	1,683.37	
2022	7.43	17,277.6	2,325.39	15,252.5	2,052.82	

Source: Statistic EDL year book. Invoice and BS2000

Figure 10: Electricity Supply & Demand



14. ສະເລ່ຍລາຄາໄຟຟ້າຂອງແຕ່ລະປະເພດລູກຄ້າ

ສະເລ່ຍລາຄາໄຟຟ້າ ແມ່ນລາຄາສະເລ່ຍຈາກການຈຳໜ່າຍໃຫ້ກັບລູກຄ້າພາຍໃນປະເທດ ນັບແຕ່ປີ 2012 ມາຮອດປີ 2022

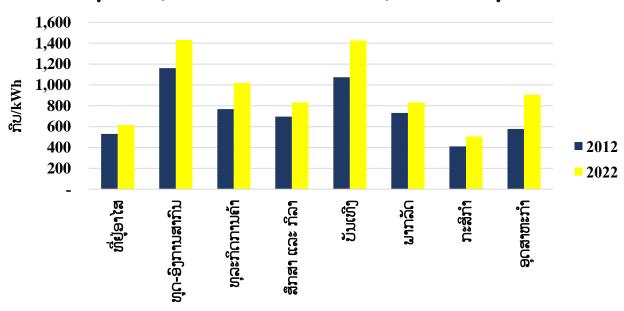
ຕາຕະລາງ 14: ສະເລ່ຍລາຄາ ໄຟຟ້າຂອງລູກຄ້າແຕ່ລະປະເພດ

ຫຼວໜ່ວຍ ກີບ/kWh

Year	ທີ່ຢູ່ອາໄສ	ທູດ-ອີງການ ສາກົນ	ທຸລະກິດການ ຄ້າ	ສຶກສາ ແລະ ກິລາ	ບັນເທີງ	ພາກລັດ	กะส์ทำ	ອຸດສາຫະກຳ
2012	529.7	1,160.4	768.2	696.6	1,073.0	730.8	411.3	577.4
2013	572.1	1,254.5	833.2	717.6	1,143.1	792.2	465.1	638.5
2014	591.2	1,249.3	952.0	761.2	1,260.4	797.8	482.0	675.0
2015	609.1	1,329.8	982.4	779.0	1,307.9	816.7	492.9	687.5
2016	614.9	1,275.6	997.1	787.3	1,341.8	821.4	511.6	691.9
2017	589.6	1,294.7	1,009.2	808.4	1,372.2	834.6	516.1	712.7
2018	589.6	1,289.5	1,002.4	813.9	1,282.4	831.7	516.1	713.4
2019	606.9	1,293.1	1,011.9	811.4	1,386.6	834.0	367.0	643.6
2020	564.6	1,030.8	969.1	814.3	1,432.4	827.5	498.2	561.7
2021	613.0	1,379.8	1,026.6	818.3	1,432.9	834.3	550.5	629.8
2022	616.1	1,430.8	1,019.8	830.4	1,425.9	832.6	506.4	906.7

ແຫຼ່ງຂໍ້ມຸນ: ອ້າງອີງຈາກປຶ້ມສະຖິຕິປະຈຳປີ ແລະ ຂໍ້ມູນຈາກລະບົບ BS2000

ຮູບສະແດງ 11: ສະເລ່ຍລາຄາ ไฟฟ้า ຂອງແຕ່ລະປະເພດລູກຄ້າ



14. Average Tariffs by Sector

The average electricity tariff refers to the mean price derived from the sale of electricity to domestic customers from the year 2012 to 2022.

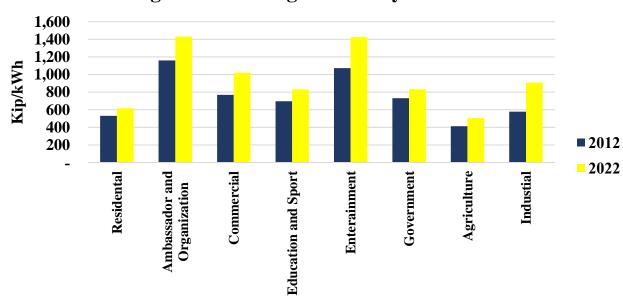
Table 14: Average Tariffs by Sector

Unit Kip/kWh

Year	Residential	Ambassador and organize	Com-mercial	Edu and Sport	Enter trainmen	Government	Agriculture	Industrial
2012	529.7	1,160.4	768.2	696.6	1,073.0	730.8	411.3	577.4
2013	572.1	1,254.5	833.2	717.6	1,143.1	792.2	465.1	638.5
2014	591.2	1,249.3	952.0	761.2	1,260.4	797.8	482.0	675.0
2015	609.1	1,329.8	982.4	779.0	1,307.9	816.7	492.9	687.5
2016	614.9	1,275.6	997.1	787.3	1,341.8	821.4	511.6	691.9
2017	589.6	1,294.7	1,009.2	808.4	1,372.2	834.6	516.1	712.7
2018	589.6	1,289.5	1,002.4	813.9	1,282.4	831.7	516.1	713.4
2019	606.9	1,293.1	1,011.9	811.4	1,386.6	834.0	367.0	643.6
2020	564.6	1,030.8	969.1	814.3	1,432.4	827.5	498.2	561.7
2021	613.0	1,379.8	1,026.6	818.3	1,432.9	834.3	550.5	629.8
2022	616.1	1,430.8	1,019.8	830.4	1,425.9	832.6	506.4	906.7

Source: Statistic EDL year book and BS2000

Figure 11: Average Tariffs by Sector





15. ຈຳນວນລູກຄ້າ ຂອງແຕ່ລະປະເພດ

ຈຳນວນລູກຄ້າທີ່ຊົມໃຊ້ໄຟຝ້າ ໃນແຕ່ລະປະເພດ ທີ່ວ ສປປລາວ

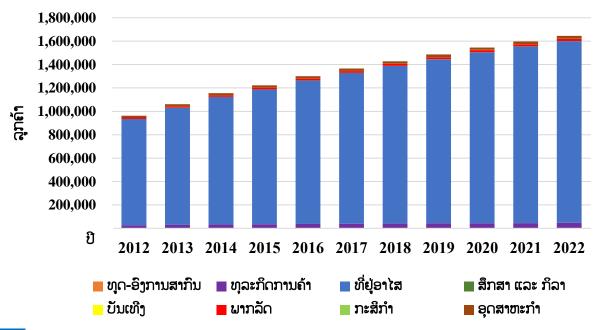
ຕາຕະລາງ 15: ຈຳນວນລູກຄ້າ ຂອງແຕ່ລະປະເພດ

ຫລວໜ່ວຍ 1 ໝໍ້ນັບໄຟ

Year	ທີ່ຢູ່ອາໄສ	ທຸດ-ອີງການ ສາກົນ	ທຸລະກິດການ ຄ້າ	ສຶກສາ ແລະ ກິລາ	ບັນເທີງ	ູມາກລັດ	าะสีทำ	ອຸດສາຫະກຳ	ລວມທັງໝິດ
2012	908,069	170	26,698	251	139	11,803	815	14,382	962,327
2013	1,002,432	182	28,876	320	139	12,720	836	15,489	1,060,994
2014	1,091,140	174	31,401	378	179	13,744	876	17,051	1,154,943
2015	1,153,700	189	34,228	430	191	14,684	864	18,412	1,222,698
2016	1,227,704	166	36,347	511	151	15,510	859	19,219	1,300,467
2017	1,289,224	156	38,760	554	154	15,933	871	20,070	1,365,722
2018	1,348,038	153	40,315	552	162	16,851	912	21,080	1,428,063
2019	1,403,986	149	41,926	584	133	17,288	1,064	21,684	1,486,814
2020	1,462,239	137	42,658	657	131	17,298	2,953	19,202	1,545,275
2021	1,512,095	140	43,406	699	130	17,624	1,167	21,701	1,596,962
2022	1,553,411	152	47,199	681	138	18,397	1,464	23,641	1,645,769

ແຫຼ່ງຂໍ້ມຸນ: ອ້າງອີງຈາກປຶ້ມສະຖິຕິປະຈຳປີ ແລະ ຂໍ້ມູນຈາກລະບົບ BS2000

ຮຸບສະແດງ 12: จำนอนลูกถ้า แยกเป็นแต่ละปะเผกลูกถ้า



15. Number of Customers

The number of customers consumers in each category in Lao PDR

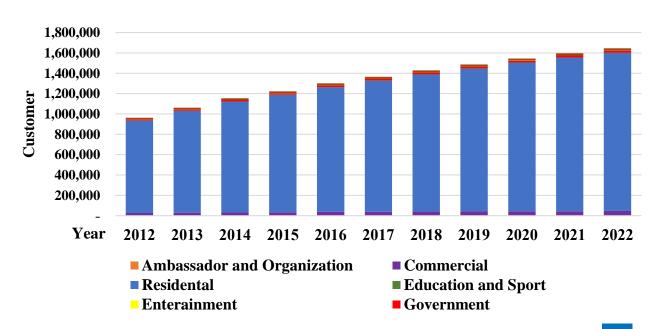
Table 15: Number of customers.

T	nit	1	\mathbf{M}	Δt	er

								Omit I wit	
Year	Residential	Ambassador and organize	Com-mercial	Education and Sport	Enter trainmen	Government	Agriculture	Industrial	Total
2012	908,069	170	26,698	251	139	11,803	815	14,382	962,327
2013	1,002,432	182	28,876	320	139	12,720	836	15,489	1,060,994
2014	1,091,140	174	31,401	378	179	13,744	876	17,051	1,154,943
2015	1,153,700	189	34,228	430	191	14,684	864	18,412	1,222,698
2016	1,227,704	166	36,347	511	151	15,510	859	19,219	1,300,467
2017	1,289,224	156	38,760	554	154	15,933	871	20,070	1,365,722
2018	1,348,038	153	40,315	552	162	16,851	912	21,080	1,428,063
2019	1,403,986	149	41,926	584	133	17,288	1,064	21,684	1,486,814
2020	1,462,239	137	42,658	657	131	17,298	2,953	19,202	1,545,275
2021	1,512,095	140	43,406	699	130	17,624	1,167	21,701	1,596,962
2022	1,553,411	152	47,199	681	138	18,397	1,464	23,641	1,645,769

Source: Statistic EDL year book and BS2000

Figure 12: Number of Customers



16. ອັດຕາການຊົມໃຊ້ໄຟຟ້າໃນຄົວເຮືອນ ແຍກເປັນແຂວງ

ແມ່ນອັດຕາການເຂົ້າເຖິງໄຟຟ້າຂອງຄົວເຮືອນ ແຍກເປັນແຕ່ລະແຂວງທົ່ວ ສປປລາວ

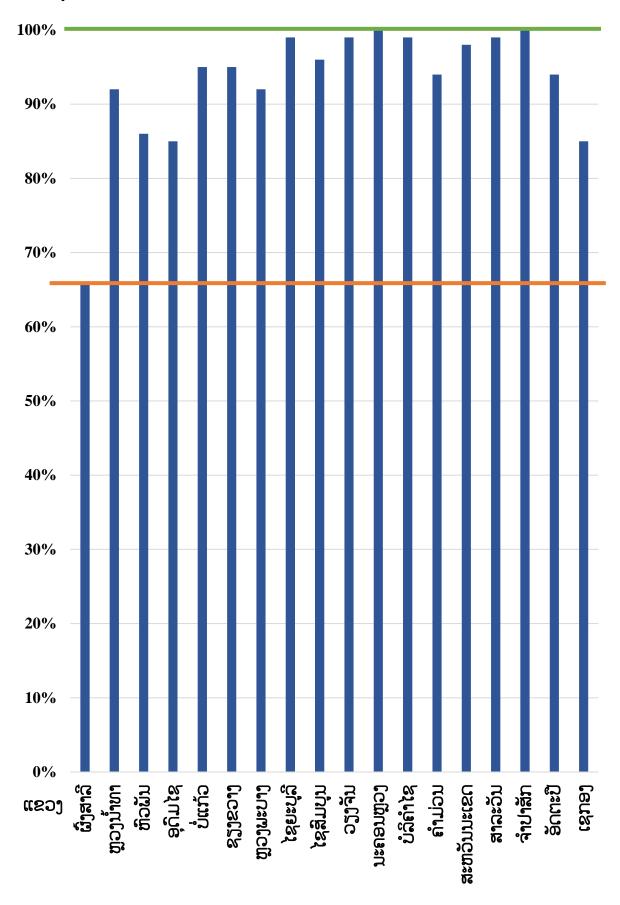
ຕາຕະລາງ 16: ອັດຕາການເຂົ້າເຖິງໄຟຟ້າຂອງຄົວເຮືອນ ແຍກເປັນແຂວງ

Unit Percent

ລ/ດ	ແຂວງ	2018	2019	2020	2021	2022
1	ຜົ້ງສາລີ	72.31%	68.71%	64.73%	66.41%	66.26%
2	ຫຼວງນ້ຳທາ	88.38%	90.02%	90.90%	91.34%	91.70%
3	ຫົວຝັນ	78.76%	81.74%	83.99%	85.68%	85.57%
4	ອຸດົມໄຊ	81.38%	82.68%	84.58%	83.05%	84.53%
5	ບໍ່ແກ້ວ	97.33%	97.35%	97.61%	97.09%	95.23%
6	ຊຽງຂວາງ	92.15%	93.40%	93.40%	95.24%	95.24%
7	ຫຼວງພະບາງ	91.95%	92.94%	91.02%	91.02%	91.71%
8	ໄຊຍະບູລີ	98.22%	98.31%	98.40%	98.27%	98.58%
9	ໄສສູກຄໍກ -	94.59%	94.93%	94.93%	95.52%	96.16%
10	ວຽງຈັນ	99.10%	99.24%	99.34%	99.32%	99.43%
11	ນະຄອນຫຼວງ	100.00%	100.00%	100.00%	100.00%	100.00%
12	ບໍລິຄຳໄຊ	95.36%	95.77%	96.01%	96.16%	99.25%
13	ຄຳມ່ວນ	92.08%	88.83%	90.74%	93.46%	93.73%
14	ສະຫວັນນະເຂດ	96.19%	97.71%	97.71%	97.71%	97.66%
15	ສາລະວັນ	97.96%	93.19%	94.81%	97.53%	99.04%
16	จำปาสัก	98.97%	99.71%	100.00%	100.00%	99.99%
17	ອັດຕະປື	88.71%	88.02%	91.57%	92.87%	94.22%
18	ເຊກອງ	72.73%	74.14%	77.83%	74.98%	85.25%
	ສວກ	93.79%	93.93%	94.29%	94.75%	95.32%

ແຫຼ່ງຂໍ້ມຸນ: ບົດລາຍງານປະຈຳປີຂອງສາຂາ

ຮຸບສະແດງ 13: ອັດຕາການເຂົ້າເຖິງໄຟຝ້າຂອງຄົວເຮືອນ ແຍກເປັນແຂວງ



16. Households Electricity consumption Rate by Province

Is the electricity consumption rate of household divided by province in Lao PDR.

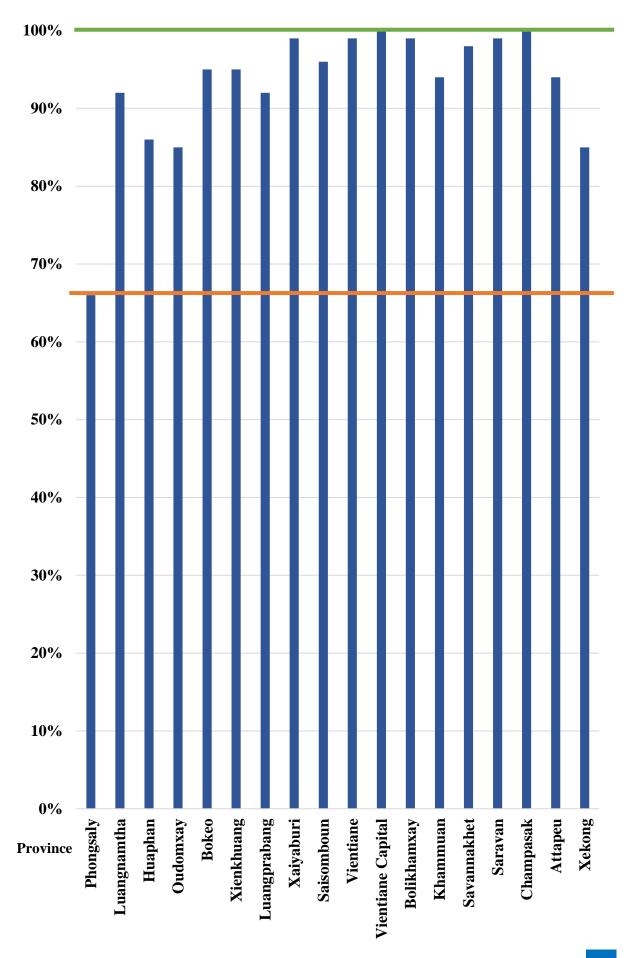
Table 16: Households Electricity consumption rate by Province

Unit Percent

No	Province	2018	2019	2020	2021	2022
1	Phongsaly	72.31%	68.71%	64.73%	66.41%	66.26%
2	Luangnamtha	88.38%	90.02%	90.90%	91.34%	91.70%
3	Huaphan	78.76%	81.74%	83.99%	85.68%	85.57%
4	Oudomxay	81.38%	82.68%	84.58%	83.05%	84.53%
5	Bokeo	97.33%	97.35%	97.61%	97.09%	95.23%
6	Xienkhuang	92.15%	93.40%	93.40%	95.24%	95.24%
7	Luangprabang	91.95%	92.94%	91.02%	91.02%	91.71%
8	Xaiyaburi	98.22%	98.31%	98.40%	98.27%	98.58%
9	Saisomboun	94.59%	94.93%	94.93%	95.52%	96.16%
10	Vientiane	99.10%	99.24%	99.34%	99.32%	99.43%
11	Vientiane Capital	100.00%	100.00%	100.00%	100.00%	100.00%
12	Bolikhamxay	95.36%	95.77%	96.01%	96.16%	99.25%
13	Khammuan	92.08%	88.83%	90.74%	93.46%	93.73%
14	Savannakhet	96.19%	97.71%	97.71%	97.71%	97.66%
15	Saravan	97.96%	93.19%	94.81%	97.53%	99.04%
16	Champasak	98.97%	99.71%	100.00%	100.00%	99.99%
17	Attapeu	88.71%	88.02%	91.57%	92.87%	94.22%
18	Xekong	72.73%	74.14%	77.83%	74.98%	85.25%
	Total	93.79%	93.93%	94.29%	94.75%	95.32%

Source: Annual report of Branch EDL

Figure 13: Households Electricity consumption by Province



17. ອັດຕາການຊົມໃຊ້ໄຟຟ້າ ແຍກເປັນປີ

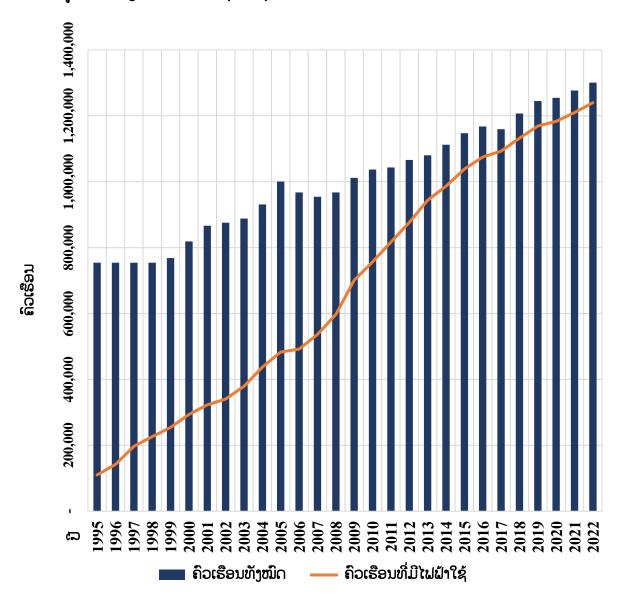
ແມ່ນອັດຕາການເຂົ້າເຖິງໄຟຟ້າຂອງຄົວເຮືອນ ທົ່ວ ສປປລາວ ໃນແຕ່ລະປີ

ຕາຕະລາງ 17: ອັດຕາການເຂົ້າເຖິງໄຟຟ້າ ພາກຄົວເຮືອນ

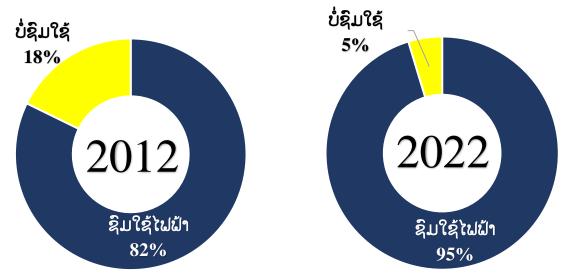
වි		บ้า ม			ຄິວເຮືອນ	
υ	ລວມ	ลิมใส้ไฝฝ้า	%	ລວມ	ຊິມໃຊ້ໄຟຝ້າ	%
1995	11,456	879	7.67%	754,265	110,229	14.61%
1996	11,456	1,217	10.62%	754,265	142,283	18.86%
1997	11,456	1,545	13.49%	754,265	196,998	26.12%
1998	11,456	1,884	16.45%	754,265	226,004	29.96%
1999	11,058	2,507	22.67%	768,142	254,610	33.15%
2000	11,263	2,651	23.54%	818,668	293,495	35.85%
2001	11,231	2,811	25.03%	866,277	322,845	37.27%
2002	11,168	3,245	29.06%	875,774	340,550	38.89%
2003	10,866	3,776	34.75%	888,355	379,109	42.68%
2004	10,781	4,229	39.23%	930,982	437,649	47.01%
2005	10,473	4,510	43.06%	1,000,350	483,133	48.30%
2006	10,470	4,515	43.12%	967,420	492,100	50.87%
2007	9,956	4,500	45.20%	954,345	536,727	56.24%
2008	9,313	4,776	51.28%	967,340	597,428	61.76%
2009	9,075	5,279	58.17%	1,011,623	700,547	69.25%
2010	8,977	5,808	64.70%	1,036,773	756,604	72.98%
2011	8,736	6,036	69.09%	1,043,429	816,890	78.29%
2012	8,656	6,448	74.49%	1,066,017	876,762	82.25%
2013	8,620	6,924	80.32%	1,080,342	943,599	87.34%
2014	8,571	7,203	84.04%	1,112,046	986,435	88.70%
2015	8,583	7,373	85.90%	1,147,135	1,038,248	90.51%
2016	8,544	7,554	88.41%	1,167,607	1.074,789	92.05%
2017	8,505	7,667	90.15%	1,159,571	1,092,611	94.23%
2018	8,480	7,766	91.58%	1,206,926	1,132,019	93.79%
2019	8,447	7,864	93.10%	1,244,853	1,169,250	93.93%
2020	8,450	7,886	93.33%	1,254,748	1,183,159	94.29%
2021	8,437	7,940	94.11%	1,276,921	1,209,837	94.75%
2022	8,427	7,959	94.45%	1,300,848	1,239,917	95.32%

ແຫຼ່ງຂໍ້ມຸນ: ປຶ້ມສະຖິຕິ ຝຟລ ປະຈຳປີ ແລະ ບົດລາຍງານປະຈຳປີຂອງສາຂາ

ຮູບສະແດງ 14: ການຊີມໃຊ້ໄຟຟ້າພາກຄົວເຮືອນແຕ່ປີ 1995-2022



ຮຸບສະແດງ 15: ສີມທຽບການເຂົ້າເຖິງໄຟຝ້າພາກຄົວເຮືອນ ປີ 2012 ແລະ ປີ 2022



17. Households Electricity consumption by Year

The electricity access rate of households throughout the Lao PDR each year

Table 17: Households Electricity consumption Rate

		Village			House Hold	
Year	Total	Consumption	%	Total	Consumption	%
1995	11,456	879	7.67%	754,265	110,229	14.61%
1996	11,456	1,217	10.62%	754,265	142,283	18.86%
1997	11,456	1,545	13.49%	754,265	196,998	26.12%
1998	11,456	1,884	16.45%	754,265	226,004	29.96%
1999	11,058	2,507	22.67%	768,142	254,610	33.15%
2000	11,263	2,651	23.54%	818,668	293,495	35.85%
2001	11,231	2,811	25.03%	866,277	322,845	37.27%
2002	11,168	3,245	29.06%	875,774	340,550	38.89%
2003	10,866	3,776	34.75%	888,355	379,109	42.68%
2004	10,781	4,229	39.23%	930,982	437,649	47.01%
2005	10,473	4,510	43.06%	1,000,350	483,133	48.30%
2006	10,470	4,515	43.12%	967,420	492,100	50.87%
2007	9,956	4,500	45.20%	954,345	536,727	56.24%
2008	9,313	4,776	51.28%	967,340	597,428	61.76%
2009	9,075	5,279	58.17%	1,011,623	700,547	69.25%
2010	8,977	5,808	64.70%	1,036,773	756,604	72.98%
2011	8,736	6,036	69.09%	1,043,429	816,890	78.29%
2012	8,656	6,448	74.49%	1,066,017	876,762	82.25%
2013	8,620	6,924	80.32%	1,080,342	943,599	87.34%
2014	8,571	7,203	84.04%	1,112,046	986,435	88.70%
2015	8,583	7,373	85.90%	1,147,135	1,038,248	90.51%
2016	8,544	7,554	88.41%	1,167,607	1,074,789	92.05%
2017	8,505	7,667	90.15%	1,159,571	1,092,611	94.23%
2018	8,480	7,766	91.58%	1,206,926	1,132,019	93.79%
2019	8,447	7,864	93.10%	1,244,853	1,169,250	93.93%
2020	8,450	7,886	93.33%	1,254,748	1,183,159	94.29%
2021	8,437	7,940	94.11%	1,276,921	1,209,837	94.75%
2022	8,427	7,959	94.45%	1,300,848	1,239,917	95.32%

Source: Statistic EDL Year book and Annual report of Branch

Figure 14: Households Electricity consumption since 1995-2022

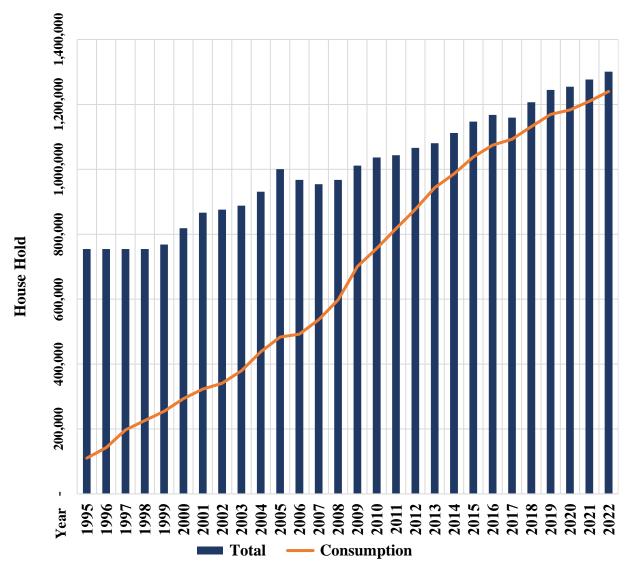
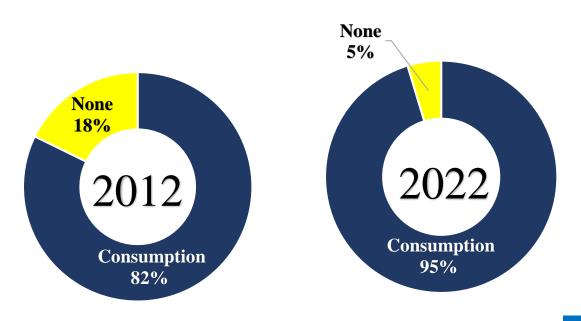


Figure 15: Comparation Household Electricity consumption between 2012 and Year 2022



18. ປະສິດທິພາບຂອງການຈຳໜ່າຍໄຟຝ້າ

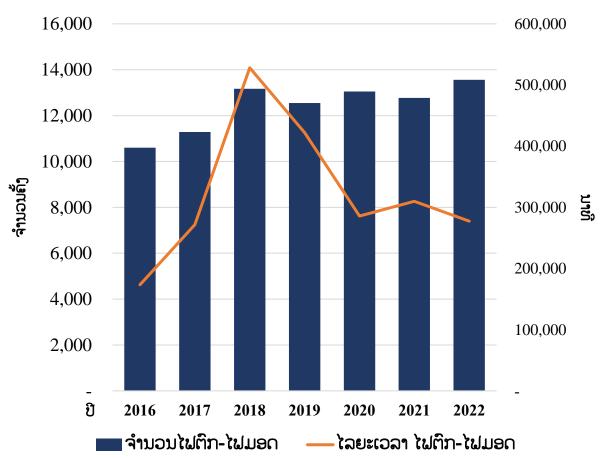
ຂໍ້ມູນຈຳນວນໄຟຕົກ-ໄຟມອດ ໃນລະບົບຂອງ ຟຟລ ໃນທົ່ວປະເທດ

ຕາຕະລາງ 18: ປະສິດທິພາບຂອງການຈັດຈຳໜ່າຍ

	2016	2017	2018	2019	2020	2021	2022
ຈຳນວນໄຟຕິກ-ໄຟມອດ	10,600	11,286	13,172	12,546	13,051	12,769	13,561
ໄລຍະເວລາ ໄຟຕິກ-ໄຟມອດ	173,435	271,666	528,212	422,192	285,770	309,855	277,451
SAIFI (ຄັ້ງ/ຜູ້ຊີມໃຊ້/ປີ)	6.19	4.51	5.29	4.31	4.65	4.16	4.42
SAIDI (ນາທີ/ຜູ້ຊີມໃຊ້/ປີ)	459.18	80.59	140.59	84.39	82.42	74.06	191.93
CAIDI (มาชิ/ปี)	74.18	17.87	26.58	19.58	17.72	17.80	43.42

ແຫຼ່ງຂໍ້ມຸນ: ຝ່າຍວາງແຜນ ແລະ ບັນຊາລະບົບໄຟຟ້າ

ຮູບສະແດງ 16: ປະສິດທິພາບຂອງການຈັດຈຳໜ່າຍ



18. Efficiency of Electricity Distribution

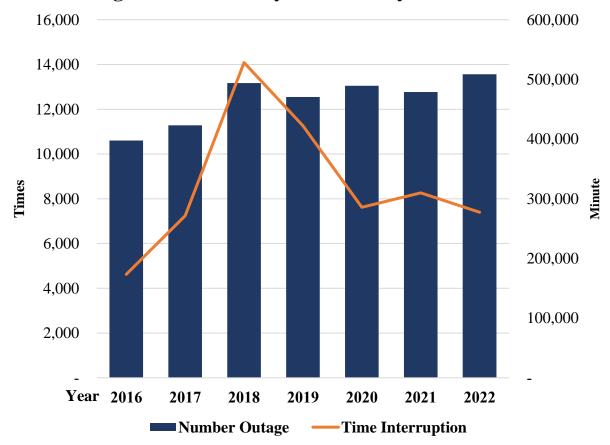
The number of power outage and shutdowns in the system of EDL.

Table 18: Performance of Distribution

	2016	2017	2018	2019	2020	2021	2022
Number Outage	10,600	11,286	13,172	12,546	13,051	12,769	13,561
Time Interruption	173,435	271,666	528,212	422,192	285,770	309,855	277,451
SAIFI (Times/Customer/ Year)	6.19	4.51	5.29	4.31	4.65	4.16	4.42
SAIDI (Minutes/Custome r/Year)	459.18	80.59	140.59	84.39	82.42	74.06	191.93
CAIDI (Minutes/Year)	74.18	17.87	26.58	19.58	17.72	17.80	43.42

Source: Power System Planning and Control Department

Figure 16: Efficiency of Electricity Distribution



19. ຄ່າພະລັງງານຕຶກເຮ່ຍ (GWh)

ແມ່ນພະລັງງານຕຶກເຮ່ຍສະເພາະພາກຈຳໜ່າຍຂອງບັນດາສາຂາໄຟຟ້າໃນແຂວງ ປະຈຳປີ ເປັນ GWh

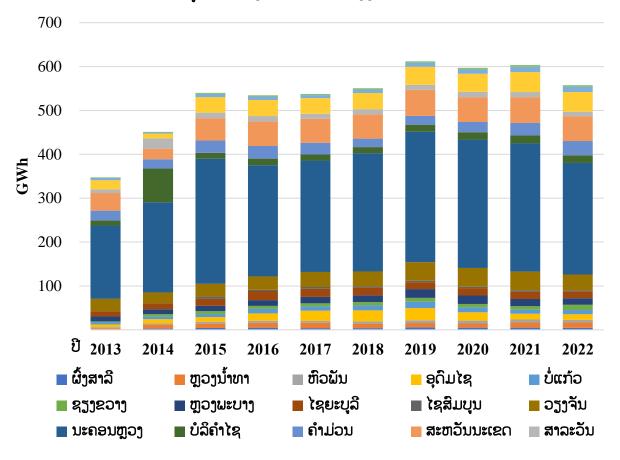
ຕາຕະລາງ 19: ຄ່າພະລັງງານຕຶກເຮ່ຍ (GWh)

Unit GWh

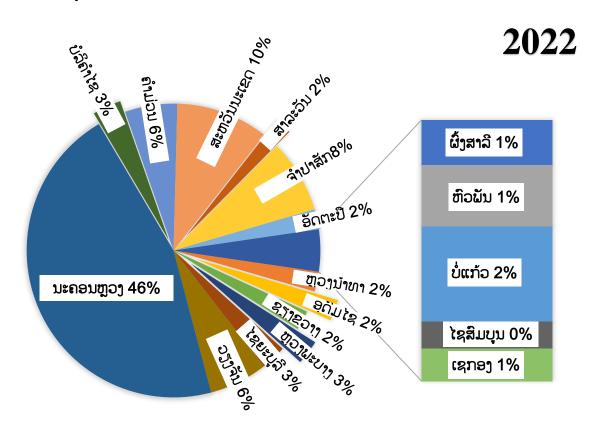
									Omt	GWII	
ລ/ດ	ແຂວງ	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	ຜົ້ງສາລີ	1.00	2.69	4.36	5.04	4.02	3.72	5.88	4.91	5.05	4.50
2	ຫຼວງນ້ຳທາ	2.64	9.36	9.88	10.76	11.92	9.80	9.79	9.47	11.56	12.17
3	ຫືວພັນ	2.46	2.93	4.17	4.82	4.44	5.31	6.17	6.66	7.04	6.04
4	ອຸດີມໄຊ	6.23	9.50	10.78	16.95	23.33	25.58	27.82	19.08	13.03	12.97
5	ບໍ່ແກ້ວ	5.33	5.76	6.85	9.98	9.84	11.40	14.40	11.29	9.19	9.45
6	ຊຽງຂວາງ	1.65	5.47	6.54	7.02	7.01	7.50	8.62	7.45	8.09	11.97
7	ຫຼວງພະບາງ	11.39	11.06	12.42	13.18	14.60	15.50	20.04	19.38	16.38	14.98
8	ໄຊຍະບຸລີ	11.74	14.13	15.78	20.87	18.35	17.23	15.95	16.71	16.84	15.57
9	ເ ຮສູກດໍກ	-	-	4.92	2.92	4.06	3.06	3.05	3.21	3.18	2.63
10	ວຽງຈັນ	28.30	24.22	29.42	30.10	34.39	33.93	42.47	42.98	42.43	35.78
11	ນະຄອນຫຼວງ	167.09	205.36	284.74	253.47	253.77	269.30	297.28	292.47	291.93	254.43
12	ບໍລິຄຳໄຊ	11.06	77.03	13.60	15.17	14.09	13.99	16.01	16.94	18.36	17.58
13	ຄຳມ່ວນ	22.84	21.34	28.06	28.78	26.49	19.38	20.28	23.16	28.60	32.14
14	ສະຫວັນນະເຂດ	40.04	24.00	50.97	56.02	54.60	55.63	59.28	56.52	58.60	56.66
15	ສາລະວັນ	8.50	23.53	12.29	12.11	11.45	11.41	11.18	12.01	11.55	10.24
16	จำปาสัภ	20.78	10.72	35.66	36.65	35.80	37.15	41.44	41.45	45.80	44.96
17	ອັດຕະປື	4.88	2.42	7.30	7.91	6.74	7.73	9.33	9.77	11.93	12.27
18	ເຊກອງ	1.67	1.78	2.50	3.02	2.62	2.97	3.05	3.75	4.04	3.25

ແຫຼ່ງຂໍ້ມຸນ: ຝ່າຍວາງແຜນ ແລະ ບັນຊາລະບົບໄຟຟ້າ

ຮຸບສະແດງ 17: ຄ່າພະລັງງານຕຶກເຮ່ຍ



ຮຸບສະແດງ 18: ພະລັງງານຕຶກເຮ່ຍໃນປີ 2022 ແຍກເປັນແຂວງ



19. Energy Loss (GWh)

Is refers to the energy that is lost specifically within the distribution sector of each branch yearly as GWh.

Table 19: Energy Loss (GWh)

Unit GWh

									<u> </u>	3 	
No	Province	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	Phongsaly	1.00	2.69	4.36	5.04	4.02	3.72	5.88	4.91	5.05	4.50
2	Luangnamtha	2.64	9.36	9.88	10.76	11.92	9.80	9.79	9.47	11.56	12.17
3	Huaphan	2.46	2.93	4.17	4.82	4.44	5.31	6.17	6.66	7.04	6.04
4	Oudomxay	6.23	9.50	10.78	16.95	23.33	25.58	27.82	19.08	13.03	12.97
5	Bokeo	5.33	5.76	6.85	9.98	9.84	11.40	14.40	11.29	9.19	9.45
6	Xienkhuang	1.65	5.47	6.54	7.02	7.01	7.50	8.62	7.45	8.09	11.97
7	Luangpra bang	11.39	11.06	12.42	13.18	14.60	15.50	20.04	19.38	16.38	14.98
8	Xaiyaburi	11.74	14.13	15.78	20.87	18.35	17.23	15.95	16.71	16.84	15.57
9	Saisomboun	-	ı	4.92	2.92	4.06	3.06	3.05	3.21	3.18	2.63
10	Vientiane	28.30	24.22	29.42	30.10	34.39	33.93	42.47	42.98	42.43	35.78
11	Vientiane Capital	167.09	205.36	284.74	253.47	253.77	269.30	297.28	292.47	291.93	254.43
12	Bolikhamxay	11.06	77.03	13.60	15.17	14.09	13.99	16.01	16.94	18.36	17.58
13	Khammuan	22.84	21.34	28.06	28.78	26.49	19.38	20.28	23.16	28.60	32.14
14	Savannakhet	40.04	24.00	50.97	56.02	54.60	55.63	59.28	56.52	58.60	56.66
15	Saravan	8.50	23.53	12.29	12.11	11.45	11.41	11.18	12.01	11.55	10.24
16	Champasak	20.78	10.72	35.66	36.65	35.80	37.15	41.44	41.45	45.80	44.96
17	Attapeu	4.88	2.42	7.30	7.91	6.74	7.73	9.33	9.77	11.93	12.27
18	Xekong	1.67	1.78	2.50	3.02	2.62	2.97	3.05	3.75	4.04	3.25

Source: Power System Planning and Control Department

Figure 17: Energy Loss by Province

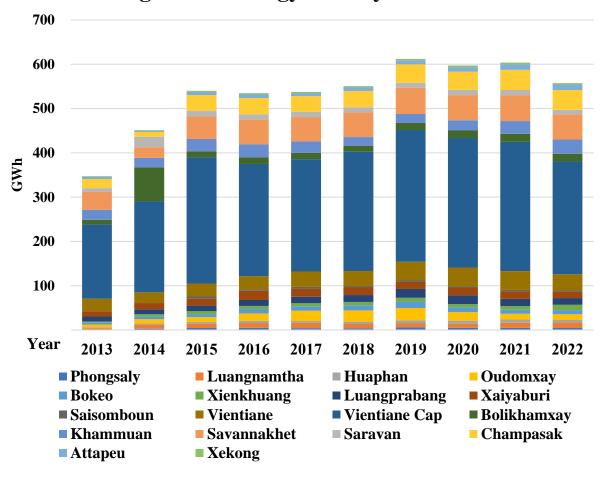
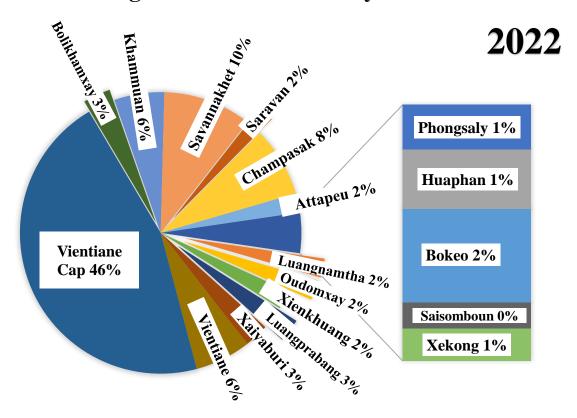


Figure 18: Loss Electricity in 2022



20. ຄ່າພະລັງງານຕຶກເຮ່ຍ (ສ່ວນຮ້ອຍ)

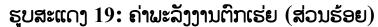
ແມ່ນພະລັງງານຕຶກເຮ່ຍສະເພາະພາກຈຳໜ່າຍຂອງບັນດາສາຂາໄຟຟ້າໃນແຂວງ ປະຈຳປີ ເປັນເປີເຊັນ

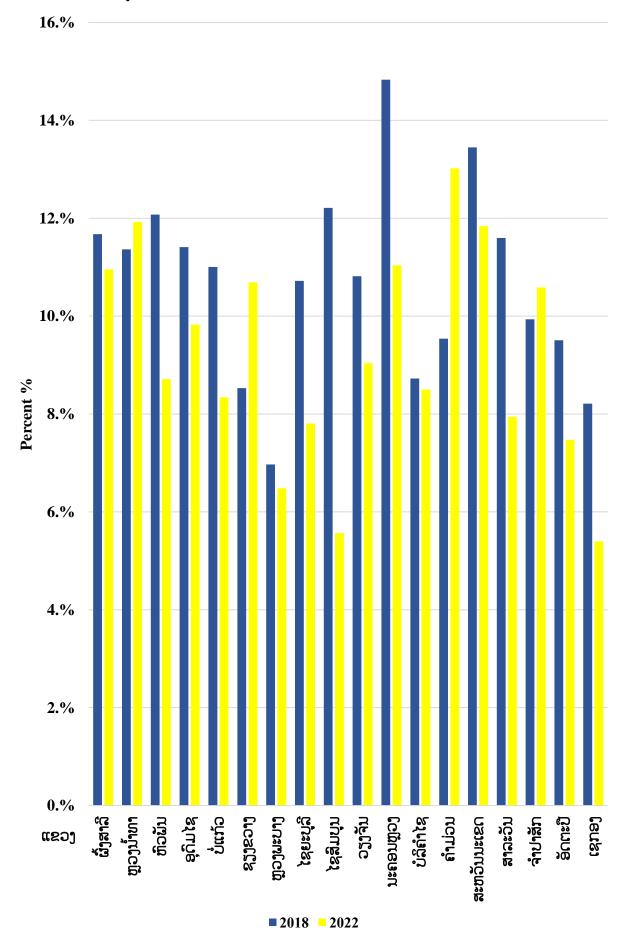
ຕາຕະລາງ 20: ພະລັງງານຕຶກເຮ່ຍ (%)

Unit Percent

ລ/ດ	ແຂວງ	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	ຜິ້ງສາລີ	8.78	14.80	19.16	19.83	13.86	11.67	15.56	14.14	13.78	10.96
2	ຫຼວງນ້ຳທາ	6.33	12.54	11.74	11.17	11.57	11.37	11.32	11.06	12.52	11.92
3	ຫົວພັນ	10.25	9.99	11.01	11.61	10.62	12.07	12.20	12.91	11.50	8.71
4	ອຸດິມໄຊ	13.08	14.83	13.31	13.45	12.73	11.41	10.01	8.19	8.27	9.83
5	ບໍ່ແກ້ວ	12.18	9.48	8.20	9.59	10.35	11.01	11.74	9.94	8.64	8.34
6	ຊຽງຂວາງ	3.24	10.97	10.37	10.06	9.53	8.53	9.54	8.39	8.30	10.69
7	ຫຼວງພະບາງ	8.57	7.46	7.77	7.74	7.33	6.97	7.57	8.33	7.50	6.48
8	ໄຊຍະບູລີ	11.68	13.22	13.00	14.27	11.64	10.72	9.42	9.51	8.82	7.81
9	ຸ ເສສູກຄຳກ	-	-	17.77	11.05	15.69	12.21	10.84	11.44	8.85	5.57
10	ວຽງຈັນ	14.99	12.44	13.95	12.83	12.47	10.81	10.65	11.64	11.67	9.04
11	ນະຄອນຫຼວງ	13.26	14.89	18.23	15.15	14.83	14.83	14.55	14.45	13.98	11.04
12	ບໍລິຄຳໄຊ	9.50	39.10	9.84	10.14	8.80	8.73	9.10	9.20	9.41	8.50
13	ຄຳມ່ວນ	12.76	12.03	13.83	14.08	13.08	9.54	9.55	10.48	11.97	13.02
14	ສະຫວັນນະ ເຂດ	13.98	7.76	14.17	14.94	13.78	13.45	12.96	12.32	12.34	11.84
15	ສາລະວັນ	9.14	23.75	12.15	12.59	11.75	11.60	10.79	10.64	10.20	7.94
16	ຈຳປາສັກ	8.47	4.12	10.99	10.50	10.13	9.93	10.31	10.10	11.17	10.59
17	ອັດຕະປື	10.20	4.61	10.95	11.83	9.50	9.51	9.75	8.20	7.66	7.47
18	ເຊກອງ	7.40	7.25	8.67	9.48	8.08	8.21	7.50	6.87	6.63	5.40

ແຫຼ່ງຂໍ້ມຸນ: ຝ່າຍວາງແຜນ ແລະ ບັນຊາລະບົບໄຟຝ້າ





20. Energy Loss (Percent)

Is refers to the energy that is lost specifically within the distribution sector of each branch yearly as percent.

Table 20: Energy Loss (%)

Unit Percent

No	Province	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	Phongsaly	8.78	14.80	19.16	19.83	13.86	11.67	15.56	14.14	13.78	10.96
2	Luangnamtha	6.33	12.54	11.74	11.17	11.57	11.37	11.32	11.06	12.52	11.92
3	Huaphan	10.25	9.99	11.01	11.61	10.62	12.07	12.20	12.91	11.50	8.71
4	Oudomxay	13.08	14.83	13.31	13.45	12.73	11.41	10.01	8.19	8.27	9.83
5	Bokeo	12.18	9.48	8.20	9.59	10.35	11.01	11.74	9.94	8.64	8.34
6	Xienkhuang	3.24	10.97	10.37	10.06	9.53	8.53	9.54	8.39	8.30	10.69
7	Luangprabang	8.57	7.46	7.77	7.74	7.33	6.97	7.57	8.33	7.50	6.48
8	Xaiyaburi	11.68	13.22	13.00	14.27	11.64	10.72	9.42	9.51	8.82	7.81
9	Saisomboun	-	-	17.77	11.05	15.69	12.21	10.84	11.44	8.85	5.57
10	Vientiane	14.99	12.44	13.95	12.83	12.47	10.81	10.65	11.64	11.67	9.04
11	Vientiane Capital	13.26	14.89	18.23	15.15	14.83	14.83	14.55	14.45	13.98	11.04
12	Bolikhamxay	9.50	39.10	9.84	10.14	8.80	8.73	9.10	9.20	9.41	8.50
13	Khammuan	12.76	12.03	13.83	14.08	13.08	9.54	9.55	10.48	11.97	13.02
14	Savannakhet	13.98	7.76	14.17	14.94	13.78	13.45	12.96	12.32	12.34	11.84
15	Saravan	9.14	23.75	12.15	12.59	11.75	11.60	10.79	10.64	10.20	7.94
16	Champasak	8.47	4.12	10.99	10.50	10.13	9.93	10.31	10.10	11.17	10.59
17	Attapeu	10.20	4.61	10.95	11.83	9.50	9.51	9.75	8.20	7.66	7.47
18	Xekong	7.40	7.25	8.67	9.48	8.08	8.21	7.50	6.87	6.63	5.40

Source: Power System Planning and Control Department



