Alternate Fuel Usage

Station

Total

TENAGA NASIONAL BERHAD

Daily System Generation Summary on Tuesday

Availability at Daily Maxim	num Dema	ınd Houi
ST-Coal	0	MW
ST-Gas	0	MW
ST-Oil	0	MW
Hydro	2,265	MW
Distillate	0	MW
Total TNB	2,265	MW
Total IPP	19,985	MW
Total Co-Gen	0	MW
Total System	25,207	MW

Generation Mix

Type	MWh	Percentage
Hydro	21,930	6.07 %
Gas	39,541	10.94 %
Total TNB	61,471	17.01 %
ST-Coal	194,088	53.70 %
ST-Gas	7,197	1.99 %
LSS	6,131	1.70 %
Gas	91,870	25.42 %
Total IPP	299,286	82.81 %
Co-Gen	419	0.12 %
Total Co-Gen	419	0.12 %
Total Generation	361,176	99.93 %
PLTG	1 407	0.39 %
	1,407	
HVDC	-1,664	-0.46 %
Interconnection	-257	-0.07 %
Net Energy	361,433	100.00 %

Maximum Demand Record

Date: 5/24/2022 19,183 MW Date: 5/24/2022 398,523 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,126 MW
TNB Generation	3,403 MW
IPP Generation	13,625 MW
Spinning Reserve	1,074 MW
Maximum Demand	17,071 MW
Net Energy	361,433 MWH
Load Factor	88.22 %

Fuel Cost

Total Cost: 117,267,131.01 RM Cost per Unit 32.47 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	482
Hydro	442
Syncon	328
Thermal	228
Total	1,480

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

(mmscfd)
48
3
51
101
41
271
139
77
72
169
69
838

1014111	050
Total Gas	939
Total Gas	939

Required

Hourly System MW Generation

	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
System Total	14459	13764	13259	12876	12665	12544	12942	13053	13298	14905	15605	16054	16017	15917	16475	16927	17041	16690	15801	15765	16799	16489	15813	15491

Prepared By: -Select Name
Checked By: -Select Name-

(Ir. Shanmugam Thoppalan) Printed on: Friday, September 2, 2022 4:01:43 PM Head Grid System Operator



Daily MW Generation on Tuesday

Station	Unit	0000	1	0100	020	00	03	300	0	400		0500)	0600	0	700		0800		0900		1000		1100	1	200	1	1300		1400		1500	1	1600	170	00	180	0	190	0	200	0	210	00	2200)	2300	1
JMAH	U001	707	708	706 70	6 707	7 70	06 70	07 7	05 7	707	707	707	707	706	705	707	705	706	707	706	707	499	346	212 2	215 2	113	213 2	213	215	213	214	214	215	213 21	4 213	214	215	214	287	403	583	707	702	705	706	705	706	703
JMAH	U002	702	706	705 70	1 705	5 70	06 70	03 7	04 7	705	705	701	703	706	706	705	704	705	702	707	705	704	707	705	700 7	04	703	706	705	704	705	704	706	704 70	5 705	704	702	704	707	704	705	703	705	710	708	708	707	385
JMHE	U002	931	904	899 85	0 849	84	18 84	48 7	99 8	302	801	797	802	799	802 8	801	798	796	910	976	978	975	973	975	974 9	73	976 9	974	978	979	974	974	975	972 97	5 974	978	971	977	976	973	973	974	971	975	972	980	975	977
JMJG	U001	419	417	420 42	0 418	3 41	6 41	19 4	16 4	122	415	416	420	417	416 4	419	417	420	419	417	420	420	420	416	421 4	18	417 4	416	414	417	416	418	416	416 41	7 420	416	414	432	486	500	500	497	622	670	668	673	675	665
JMJG	U002	673	668	678 66	9 679	67	9 66	56 6	72	571	675	678	672	672	576	575	673	677	672	672	677	684	659	689	660 6	79	572	677	671	673	683	660	668	574 66	675	668	669	672	667	671	670	672	670	667	666	667	675	671
JMJG	U003	667	666	666 67	0 665	5 66	67 66	56 6	68	564	671	666	663	671	558	571	671	664	666	667	663	659	656	668	662 6	665	566	662	666	665	664	664	665	562 66	659	669	666	660	667	657	666	662	663	662	668	667	667	663
JMJG	U004	933	900	899 85	5 853	85	54 85	51 8	03 8	305	806	805	805	808	804 8	805	808	804	843	898	931	970	980	978	977 9	77 9	975	974	978	976	977	973	976	978 97	6 973	976	973	975	972	972	972	968	971	968	973	971	975	972
JMJG	U005	869	872	870 84	9 848	85	54 85	50 7	98 7	799	801	797	800	800	801 8	800	803	799	848	801	795	798	801	798	698 7	01	593	648	734	807	794	793	795 ′	795 79	6 795	796	791	794	794	795	795	794	795	790	791	793	790	791
PKLG	U004	275	275	272 27	2 253	3 17	4 14	19 1	51 1	150	150	152	153	219	259 2	272	273	272	209	152	150	147	147	148	147 1	50	147	149	150	149	147	150	150	149 14	7 148	151	148	148	110	59	13	0	0	0	0	0	0	0
TBIN	U001			698 69							697			700								705												598 69		698				700				697	699	703	701	701
TBIN	U002			700 70																																				699				699		702	702	, 00
TBIN	U004	939	905	904 85	0 853	85	55 85	57 8	06 8	303	804	803	804	803	804 8	302	802	801	859	940	939	941	940	940 9	941 9	39 9	939 9	940	942	939	941	941	941 9	941 94	0 937	941	937	938	938	938	939	938	938	940	938	938	937	940
Total ST-C	oal	8518	8415	8417 82	41 822	7 810	61 81	09 79	923 7	923	7933 ′	7927	7929	7998 8	033 8	057 8	057	8045	8235	8329	8363	8205	8024	7938 7	792 7	817 7	700 7	759	7856	7922	7914	7896	7904_7	902 79	01 790	7912	7885	7917	800	8071	8213	8314	8440	8483	8486	8507	8510	8173
Total ST-C			0	0 0	_			_	_	_	0	0	0		-	_	0	0	0	0		0					_	0	0	0				0 0	_		0	0	0		0	0	0		0	0	0	0
PKLG	U006			269 26		_			-																	-																						
Total ST-C				269 26		_																											_					_				_			_		268	268
CBPS	BLK2			194 20																																											192	1//
EMPP	BLK1			479 46																																										700	681	705
EMPP	BLK2			496 47		=								401										707										717 70												707	697	,
EMPP	BLK3			483 47							375			405								690		696										718 71			685							679	690	697	679	703
GLGR	GT01		67	66 6								67	68					68	65		67	66							67	65				103 10			65	68	67	95	103			0,	66	67	66	66
GLGR	GT02		66	66 6							66	66	66					66	65	66	65	66							66	66		103		102 10			65				103		103		65	66	66	66
GLGR	ST1C			71 7					71						70												70							95 9				71			94	94		79	71	71	70	71
NPRI	BLK1			301 31																																										512	503	514
NPRI	BLK2			299 31 389 40				, ,	07 3		510	500	J		315 3				507					514 5		505		505						524 51 500 60			600							505		600	506	600
PCGP PGLA	PGRG GT11	0	0	0 0		2 40			0	0	0	0	0				0	0	0	430	0	0	0					16						221 21													136	
PGLA	GT12	167		163 16				-		168		•		167		167		•		167														221 21													137	100
PGLA	ST10		87	87 8	7 88	88			87	87	88	87	87	88	88		87	88	88		87													233 23													175	
SGRI	GT21	0	0	0 0						0	0	0	0	0	0		0	0	0	0	0	0						0	0	0				0 0			0	0	0	0	0	0	0		0	0	0	0
SPGP	BLK1			440 36																														727 72													707	717
SPGP	BLK2	595	511	439 36	1 359			54 3	57 3	359	362			364	367 3	362								592 5				583						510 59			590			602				581	590	495	483	396
TJGS	GT2A	163	163	163 16	3 163	3 16	53 16	53 1	63 1	163	163	164	164	164	164 1	164	164	164	164	164	164	164	219	219 2	219 2	19 2	219 2	219	219	219	220	220	229	227 22	7 227	226	229	229	227	226	227	229	229	229	163	165	165	165
TJGS	GT2B	0	0	0 0	0	0) ()	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	ST2C	92	92	92 9	2 92	92	2 9:	2 9	92	92	92	92	92	92	92	92	92	92	92	92	92	92	114	114	114 1	09	115	115	115	115	115	115	117	117 11	7 117	117	117	117	117	117	117	117	117	117	94	94	94	94
Total CCG	T-Gas	4795	4539	4228 40	81 389	7 392	29 38	37 38	872 3	887	3786	3744	3818	3887 3	995 3	920 3	915	1187	4945	5179	5592	5870	6137	6115 6	167 6	083 6	067 6	020	6230	6279	6627	6709 6	6728 6	762 669	94 663	9 6599	6484	6510	6610	6711	6668	6605	6518	8 6449	6110	6056	5957	5973
SRDG	GT04	0	0	0 0	0	0) ()	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	124	89	0	0	0	0	0
SRDG	GT05	0	0	0 0	0	0) ()	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 12	0 89	0	0	0	0	0	0	0	0	0	0	0	0	0
Total OCG	T-Gas	0	0	0 0	0	0) ()	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 12	0 89	0	0	0	0	0	0	124	89	0	0	0	0	0
BSIA	HY02	20	20	20 20	20	20	0 2	0 2	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20 20	0 20	20	20	11	20	20	20	20	20	20	20	20	20	20
BSIA	HY03	23	23	23 2	3 23	23	3 2	3 2	23	23	23	23	23	23	23	23	23	23	23	23	22	22	23	22	23	22	22	22	22	22	22	23	23	23 2	3 23	23	23	11	23	23	23	22	22	22	23	23	23	23
CEND	HY01	10	10	10 10	10	10	0 1	0 1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10 10	0 10	10	10	10	10	10	10	9	9	9	9	9	9	9
CEND	HY02	9	9	9 9	9	9	9)	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9 9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	0	0	0 0	0	0) ()	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	5	10	10	10	9	9	10	9	10	10
CEND	HY04	7	7	7 7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7 7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	HY01	-1	-1	-1 -	-1	-1	1 -	1 -	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	62	-1	-1	-1	-1	64	65	65	65	65 63	5 64	63	63	63	63	0	0	0	0	0	0	0	0	0
HTRG	HY04	7	7	7 7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7 7	7	7	7	7	7	7	7	7	7	7	7	7	7	7



Daily MW Generation on Tuesday

Station	Unit	0000	0	0100	02	200	03	300	(0400	,	0500)	0600	070	0	080)	0900)	1000)	1100)	1200)	1300)	1400)	1500		1600	1	700	180	0	190	0	2000	0	2100	0	2200	2	2300	
KNRG	HY01	31	31	31	31 3	1 () ()	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	31	31	31	31	31	32	32	31	31	21	21	21	21 21	21	21	21	21	21	21	21	20	20	20	20	20
KNRG	HY02				37 3				0	0	0	0	0	0 0		0	0	0	0	0	0	0		37	37	37		37							23 23	23	24	24		23	23	23	23				23
KNRG	HY03			35	35 3	5 3	7 3	7	37	37	37	37	37	37 3	7 37	37	37	37	37	37	37	37	36	35	35	35	35	35	35	35	36	23	23	22	22 21	22	23	22	23	22	22	21	21	22	22	21	22
KNYR	HY01	100	100	100 1	01 10	01 10	01 10	01 1	101	101	101	101	101	101 10	1 101	101	101	101	101	101	101	101	101	101	100	100	100	100	100	100	101	101	101	101	100 100	100	101	101	101	101	99	99	99	100	100	100	100
KNYR	HY02	104	104	104 1	04 10	04 10	04 10)4 1	104	105	105	105	105	104 10	4 104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104 104	104	104	104	104	104	104	104	104	104	104	104	104
KNYR	HY03	103	103	103 1	03 10	03 10	03 10	02 1	102	59	60	59	60	103 10	3 103	103	103	103	103	103	103	103	102	102	102	102	102	103	103	103	103	103	103	103	103 103	103	102	102	102	101	102	102	102	103	103	103	103
KNYR	HY04	102	102	102 1	02 10	02 10	02 10)2 1	102	59	60	60	60	102 10	2 102	102	102	102	102	102	102	102	102	102	102	101	101	101	102	102	102	102	102	102	102 101	101	102	102	103	102	101	101	101	102	102	101	102
LPIA	HY01	18	18	18	18 1	8 1	8 1	8	18	18	18	18	18	18 18	18	18	18	18	18	18	18	18	18	18	18	20	20	20	20	20	20	20	20	20	20 20	20	20	20	20	20	20	20	20	20	20	20	20
LPIA	HY02	18	18	18	18 1	8 1	8 1	8	18	18	18	18	18	18 18	3 18	18	18	18	18	18	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19 19	19	19	19	19	19	19	19	19	19	19	19	19
MNOR	HY01	3	3	3	3	3 3	3 3	3	3	3	3	3	3	3 3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3 3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	20	21	21	21 2	1 2	1 2	1	21	21	21	21	21	21 2	21	21	21	21	21	21	21	21	21	21	20	20	20	21	21	21	21	21	21	21	21 21	21	21	21	79	81	21	21	21	21	22	21	21
PGAU	HY02	20	21	21	21 2	1 2	1 2	1	21	21	21	21	21	21 2	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	-1	-1	-1	-1	-1 -1	-1	-1	-1	21	82	21	21	21	21	21	21	21
SIHY	HY01	0	0	0	0 (0 () ()	0	0	0	0	0	0 0	0	0	0	0	0	0	0	25	50	50	50	50	50	50	50	30	30	30	50	50	50 50	50	31	31	50	50	32	31	0	0	0	0	0
SIHY	HY02	31	31	31	31 3	1 3	1 ()	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	50	50	50 0	0	0	0	50	50	31	31	0	0	0	0	0
SIHY	HY03	31	31	31	31 3	1 3	1 ()	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	50	50	50 0	0	0	0	50	50	31	31	0	0	0	0	0
SYPS	HY01	17	17	17	17 1	7 () ()	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	25	25	25 0	0	0	0	25	25	25	25	16	16	0	0	0
SYPS	HY03	17	17	17	17 1	7 () ()	0	0	0	0	0	0 0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	16	25	25	25 25	25	16	16	25	25	25	25	16	16	16	16	0
SYPS	HY04	17	17	17	17 1	7 () ()	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	25	25	25 0	0	0	0	25	25	25	25	16	16	16	16	0
TMGR	HY01	-1	-1	-1	-1 -	1 -	1 -	1	-1	-1	-1	-1	-1	-1 -1	-1	-1	-1	-1	-1	-1	-1	-1	82	82	82	32	31	33	31	82	82	82	82	82	82 82	82	34	82	82	82	82	82	82	82	82	32	34
TMGR	HY02	-1	-1	-1	-1 -	1 -	1 -	1	-1	-1	-1	-1	-1	-1 8	5 84	-1	-1	-1	-1	-1	-1	85	84	85	82	83	81	83	81	83	83	83	83	83	82 83	82	35	87	87	87	86	85	85	87	87	-1	-1
TMGR	HY04	48	42	40	54 4	2 5	1 4	1	41	40	71	41	84	83 82	2 68	83	84	83	83	42	40	83	41	62	38	41	41	54	38	41	82	74	82	59	40 41	40	48	41	82	40	39	37	38	41	41	39	51
UJLI	HY01	-1	-1	-1	-1 -	1 -	1 -	1	-1	-1	-1	-1	-1	92 92	2 -1	-1	-1	-1	-1	-1	-1	-1	-1	89	81	85	82	92	82	92	92	92	134	182	85 -1	-1	-1	-1	100	93	90	86	-1	-1	-1	-1	-1
UJLI	HY02	-1	-1	-1	-1 -	1 -	1 -	1	-1	-1	-1	-1	-1	-1 -1	-1	-1	-1	-1	-1	-1	-1	-1	90	90	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1 -1	-1	-1	-1	100	182	92	-1	-1	-1	-1	-1	-1
UPIA	HY01	5	5	5	5	5 5	5 5	5	5	5	5	5	5	5 5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	5	6	6 6	6	5	6	6	6	6	6	6	5	6	6	6
UPIA	HY02	4	4		4 4	4 4		_	4	4	4	4	4	4 4		4	4	4	4	4	4	4	4	4	5	5	5	5	5	5		_			5 5	5	5	. 5	5	5	5	5	5	5	5	5	_5
Total Hyd										_				784 86			-				_																									752	
Total Disti		0	0			0 (_	_	0	0	0	0	0 0	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_		0 0	0	0	0	0	0	0	0	0	0	0		0
BDLS	LSS1 LSS1	0	0		0 (0 (0	0	0	0	0	0 0		0	1	3	5 16	6 12	18	21 25	20 26	15 19	27 21	27 33	27 22	25 20	17 9	26 10					9 8 17 18	6	2	0	0	0	0	0	0	0	0		0
BKLS BSLS	LSS1 LSS1	0	0		0			-	0	0	0	0	0	0 0		0	2	3		13	14	25 17													17 18	4	0	3	0	0	0	0	0	0	0	0	0
CHLS	LSS1	0	0		0) (-	0	0	0	0	0	0 0		0	2	7	5 12	18	17	22	15 28	20 29	21 37	26 37	21 30	32 35		18 35					19 20 16 14	3	5	2	0	0	0	0	0	0	0	0	0
GBLS	LSS1	0	0		0				0	0	0	0	0	0 0		1	5	11	15	23	20	22		31	32	28	40	24	39	39					16 12	6	3	0	0	0	0	0	0	0	0	0	0
GELS	LSS1	0	0		0) (-	0	0	0	0	0	0 0		0	3	4	14	18	22	19	23	27	27	27	11	20	17	25					12 10	6	2	0	0	0	0	0	0	0	0	0	0
GNLS	LSS1	0	0	0	0) (0	0	0	0	0	0 0		0	1	6	10	21	22	27	49	24	35	38	22	40	47	31	42				25 21	0	3	1	0	0	0	0	0	0	0	0	0
JELS	LSS1	0	0	0	0) (-	0	0	0	0	0	0 0		0	2	3	7	11	20	22		22	27	23	24	26		30		25			13 15	2	2	0	0	0	0	0	0	0	0	0	0
JSLS	LSS1	0	0		0) (0	0	0	0	0	0 0		1	2	8	9	13	14	22		25	21	37	50	25	48	29					11 11	12	6	0	0	0	0	0	0	0	0	0	0
KDLS	LSS1	0	0) (-	0	0	0	0	0	0 0		0	5	7	18	41	42	37	54	50	56	70	43	78	46	73					51 47	14	0	0	0	0	0	0	0	0	0	0	0
KKLS	LSS1	0	0	0	0) (-	0	0	0	0	0	0 0		0	1	4	10	26	28			21	40	44	33	29	29	35					20 17	4	1	1	0	0	0	0	0	0	0	0	0
KMLS	LSS1	0	0	0	0) () ()	0	0	0	0	0	0 0	0	0	3	3	9	11	13	20	15	19	17	30	29	19	29	17				18	18 17	7	1	0	0	0	0	0	0	0	0	0	0
KNLS	LSS1	0	0		0			-	0	0	0	0	0	0 0		2	7	12	44	30	82	76	57	47	77	75	83	100		82					61 29	19	6	1	0	0	0	0	0	0	0	0	0
KRLS	LSS1	0	0	0	0) () ()	0	0	0	0	0	0 0	0	0	2	4	18		24	26		17	22	20	32			22			27		10 9	7	2	0	0	0	0	0	0	0	0	0	0
MCLS	LSS1	0	0	0	0) () ()	0	0	0	0	0	0 0	0	1	4	14	21	27	32	29	17	46	51	49	51	43	49	44					13 11	4	1	0	0	0	0	0	0	0	0	0	0
MNLS	LSS1	0	0	0	0) () ()	0	0	0	0	0	0 0	0	6	8	16	76	80	84		71	58	99	98	100	99	98	91			44	39	11 22	11	1	0	0	0	0	0	0	0	0	0	0
PKLS	LSS1	0	0		0			-	0	0	0	0	0	0 0		0	7	13	28	44	50	40		113		,,	100			70			• •		37 27	22	12	2	2	0	0	0	0	0	0	0	0
SPLS	LSS1	0	0	0	0	0 () ()	0	0	0	0	0	0 0	0	1	6	8	13	20	27	31	47	42	32	38	43	43	46	30					23 18	9	5	1	0	0	0	0	0	0	0	0	0
SSLS	LSS1	0	0	0	0	0 () ()	0	0	0	0	0	0 0	0	1	3	12	7	8	13	28	20	41	32	38	36	40	32	37					14 9	4	0	0	0	0	0	0	0	0	0	0	0
STLS	LSS1	0	0	0	0 () () ()	0	0	0	0	0	0 0	0	1	3	8	12		19				25		29								7 7	2	1	0	0	0	0	0	0	0	0	0	0



Daily MW Generation on Tuesday

Station Unit	000	0	0100	0	200	030	0	040	0	0500) (0600	0'	700	0	800	09	00	100	00	110	0	1200)	1300	0	1400	0	1500	0	1600)	1700)	1800)	190	0	200	0	210	00	2200)	2300	,
TBLS LSS1	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	2	4 4	6	6	4	6	12	16	18	30	29	30	23	29	20	30	17	29	14	15	5	1	0	0	0	0	0	0	0	0	0	0
Total LSS	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 1	16 7	5 15	4 35	5 452	585	5 577	660	707	803	895	869	883	862	800	731	703	593	543	417	357	165	57	11	2	0	0	0	0	0	0	0	0
PCUF CUFG	8	9	8	8	7 7	6	8	8	7	7	7	8	8	7	7	8 4	7	6	6	6	6	6	5	6	5	6	5	5	5	5	5	5	5	5	6	6	6	6	6	6	5	6	5	2	5	5
PCUF CUFK	4	2	4	5	4 5	4	5	4	4	5	4	3	5	3	5	4 4	5	5	6	4	22	5	3	5	3	6	5	18	20	23	21	19	21	21	23	22	23	21	22	22	21	20	21	21	21	22
Total Co-Gen	12	11	12	13 1	1 12	2 10	13	12	11	12	11	11	13 1	0 1	12	12 8	13	2 11	12	10	28	11	8	11	8	12	10	23	25	28	26	24	26	26	29	28	29	27	28	28	26	26	26	23	26	27
Total Gen	14426	14062	13752 1	3445 13	233 130	92 1287	3 12725	12653	12594	12516	12635 1	2949 13	179 13	017 12	960 13	280 143	02 148	35 1533	6 1558	8 15835	16065	16176	16019	15940	15919	16274	16478	16815	16891	16934	17027	17052	16720	16257	15835	15610	15875	16571	16832	16725	5 16558	8 16145	15800	15749	15513	15177
TIE-EGAT	0	0	0	0	0 0	0	0	0	0	0	0	0	0	C	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TIE-HVDC	-29	-31	-31	-28 -3	30 -2	8 -30	-28	-28	-29	-31	-28	-29 -	30 -	31 -2	29 -	28 -99	-9	6 -97	-97	-96	-97	-99	-99	-99	-99	-99	-97	-97	-98	-98	-97	-98	-98	-98	-98	-98	-96	-98	-99	-98	-98	-98	-98	-30	-28	-28
TIE-PLTG	-4	-38	19	-42	4 13	3 28	36	16	-10	3	7	36	48 -	5 -	17	0 52	20	5 30	80	22	108	100	100	100	100	100	100	47	62	62	84	79	129	79	132	122	205	114	132	133	167	116	84	-5	50	-5
Interconnection	-33	-69	-12	-70 -2	26 -1:	5 -3	8	-12	-39	-28	-21	7	18 -	36 -	46 -	18 -4	7 -7	0 -68	-17	-74	11	2	2	1	2	2	3	-51	-36	-36	-14	-19	30	-19	34	24	110	16	33	35	69	18	-13	-35	22	-33
System Total	14459	14131	13764 1	3515 13	259 131	07 1287	5 12717	12665	12633	12544	12656 1	2942 13	161 13	053 13	3006 13	298 143	19 149	05 1540	4 1560	5 15909	16054	16174	16017	15939	15917	16272	16475	16866	16927	16970	17041	17071	16690	16276	15801	15586	15765	16555	16799	16690	16489	9 16127	15813	15784	15491	15210
SRev ST-Coal	189	283	281	361 3	66 35	5 381	437	429	419	425	432	424 4	31 4	01 4	01 4	09 35	5 19	3 167	190	219	172	296	276	271	253	258	191	196	218	210	210	210	209	203	228	275	226	219	212	117	121	138	135	114	111	203
SRev CCGT-Gas	1762	2018	2329	2596 27	80 274	18 2840	2805	2790	2891	2933	2859	2790 2	582 27	57 27	762 24	190 173	2 149	98 965	687	7 420	442	390	474	712	768	558	638	290	208	189	155	223	278	318	433	407	307	206	249	312	399	468	807	861	960	944
SRev LSS	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev ST-Gas	44	44	44	44 4	44	44	44	44	44	44	44	44	14 4	4 4	14 4	14 44	4:	5 44	44	44	44	44	44	44	44	44	44	44	117	32	-5	-6	-3	44	44	44	44	44	5	-2	45	45	44	45	44	44
SRev OCGT-Gas	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	37	0	0	0	0	0	0	2	37	0	0	0	0	0
SRev Co-Gen	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syncon	676	676	676	676 6	76 67	6 676	676	676	676	676	676	489 4	01 5	88 6	76 6	76 67	6 67	6 676	676	5 588	313	0	313	313	313	313	187	187	338	338	338	338	338	525	525	525	525	0	0	0	187	374	374	374	462	462
Hydro	404	408	410	395 4	07 36	0 333	333	419	386	417	373	384 3	87 3	08 2	90 2	89 29	0 29	0 332	334	326	469	607	485	526	530	500	639	593	420	464	328	303	423	323	324	458	339	454	362	638	554	424	414	404	458	424
S.Reserve Total	3075	3429	3740	4072 42	273 418	3 4274	4295	4358	4416	4495	4384	4131 3	945 40	98 41	173 39	008 309	7 270	02 2184	193	1 1597	1440	1337	1592	1866	1908	1673	1699	1310	1301	1233	1026	1074	1282	1413	1554	1709	1441	923	828	1067	1343	1449	1774	1798	2035	2077