

Daily System Generation Summary on Friday

Friday, April 23, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,397 MW
Distillate	0 MW
Total TNB	2,397 MW
Total IPP	15,359 MW
Total Co-Gen	0 MW
Total System	21,735 MW

Generation Mix

Type	MWh	Percentage
Hydro	27,061	7.31 %
Gas	61,803	16.69 %
Total TNB	88,864	24.00 %
ST-Coal	200,611	54.18 %
LSS	3,566	0.96 %
Gas	76,051	20.54 %
Total IPP	280,228	75.68 %
Co-Gen	141	0.04 %
Total Co-Gen	141	0.04 %
Total Generation	369,233	99.72 %
PLTG	-354	-0.10 %
HVDC	-695	-0.19 %
Interconnection	-1,049	-0.28 %
Net Energy	370,282	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,429 MW
TNB Generation	4,839 MW
IPP Generation	12,491 MW
Spinning Reserve	1,094 MW
Maximum Demand	17,396 MW
Net Energy	370,282 MWH
Load Factor	88.69 %

Fuel Cost

Total Cost:	60,280,390.15 RM
Cost per Unit	16.33 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	662
Hydro	322
Syncon	390
Thermal	149
Total	1,523

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	191
Total TNB	242
CBPS	48
KLPP	56
NPRI	147
PLPS	66
SKSP	50
YPKA	25
Total IPP	392
Total Gas	634
Total Gas Required	634

Alternate Fuel Usage

Station	(mmscfd)
Total	0

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	15114	14482	13944	13559	13328	13372	13382	13225	13548	14972	15644	16135	16045	15868	16531	17147	17341	16966	16201	16154	16795	16962	16636	16401

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, May 7, 2021 1:55:48 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Friday

		Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300		
JMAH	U001		694	690	692	693	692	692	693	691	691	688	695	691	689	693	692	691	691	693	692	691	692	692	691	692	689	
JMAH	U002		697	696	698	696	695	694	696	696	695	697	695	696	697	695	694	697	697	692	695	698	697	696	696	695	694	
JMHE	U002		980	979	978	982	848	867	851	846	849	849	850	850	851	850	852	850	851	985	982	981	980	977	980	978	980	
JMJG	U001		672	675	670	671	673	672	674	673	672	673	671	670	668	677	672	673	668	667	670	667	667	668	671	673	671	
JMJG	U002		671	686	674	671	672	679	671	677	677	677	664	679	676	679	665	679	677	675	698	678	670	675	677	671	678	
JMJG	U003		668	672	671	668	669	668	663	671	668	673	668	670	673	670	673	668	672	671	666	672	671	669	673	670	668	
PKLG	U003		277	277	277	276	279	275	278	274	278	277	276	279	278	278	280	277	276	277	277	277	277	276	276	277	278	
PKLG	U004		280	278	272	278	274	278	276	274	275	275	279	279	279	285	281	277	275	277	277	274	278	274	277	275	278	
PKLG	U006		445	448	446	448	450	449	449	449	445	449	446	448	447	445	448	448	446	447	452	449	448	450	448	448	449	
TBIN	U001		690	688	688	687	687	686	690	687	688	689	687	689	687	688	687	688	687	688	687	688	687	689	687	688	687	
TBIN	U002		691	692	691	692	643	691	690	691	691	693	691	687	691	691	692	689	689	693	687	690	686	691	688	690	691	
TBIN	U003		692	692	690	689	692	691	691	692	693	692	690	692	693	690	691	694	692	691	692	690	689	692	692	693	693	
TBIN	U004		983	983	983	983	899	854	851	853	853	851	853	853	853	854	853	852	939	984	983	982	983	985	982	983	981	
Total ST-Coal			8440	8455	8430	8434	8173	8197	8169	8177	8174	8181	8166	8184	8183	8188	8182	8181	8185	8170	8385	8441	8426	8421	8450	8434	8421	
Total ST-Oil			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	
Total ST-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	
CBPS	BLK2		223	215	221	220	220	220	218	218	228	223	220	224	221	219	220	303	222	303	310	358	360	360	353	361	361	
EMPP	BLK2		767	768	765	767	766	768	767	767	763	765	768	767	768	767	767	750	672	674	675	675	517	517	517	520	518	
GLGR	GT01		67	68	67	67	69	68	68	69	68	68	69	68	69	69	69	68	68	67	69	68	66	67	75	103	104	
GLGR	GT02		67	67	67	67	67	67	68	67	68	68	67	67	67	68	68	68	68	67	67	66	67	76	103	103	104	
GLGR	ST1C		73	71	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	71	71	72	72	72	72	74	93	
KLPP	GT13		117	117	117	119	119	118	118	118	118	119	119	119	119	119	120	122	119	118	121	119	119	120	120	121	122	
KLPP	GT14		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	
KLPP	GT15		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	84	159	165	
KLPP	ST17		56	56	55	55	56	56	56	58	58	54	54	56	55	58	55	59	59	59	59	58	58	59	59	57	57	
NPRI	BLK1		521	511	321	322	322	323	311	312	322	320	320	320	322	316	320	400	521	520	515	522	520	522	518	509	521	
NPRI	BLK2		524	325	522	449	381	449	327	326	402	391	450	428	452	474	329	408	524	523	523	521	524	523	524	521	512	
PCGP	PGRG		261	262	260	264	262	261	262	262	263	262	262	260	260	262	261	261	262	261	261	261	261	261	260	261	260	
PLPS	GT11		130	124	129	128	129	128	125	125	128	129	129	129	128	128	127	129	128	129	129	126	128	128	143	143	124	
PLPS	GT12		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	
PLPS	GT13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	60	141		
PLPS	ST18		59	57	58	58	58	57	57	57	58	58	59	58	58	58	57	58	59	58	58	58	60	55	58	58	102	
SKSP	BLK1		255	219	299	220	237	222	219	219	237	218	218	219	220	222	254	220	221	277	329	327	326	327	326	296	296	
SPGP	BLK1		360	361	359	359	360	360	359	360	360	361	360	360	360	361	361	360	360	360	360	360	360	360	360	360	360	360
SPGP	BLK2		720	719	357	360	359	360	359	360	359	360	360	361	360	361	360	359	358	450	451	449	547	542	547	599	600	
TJGS	GT1A		139	137	138	136	135	140	131	135	141	134	141	130	134	137	134	137	139	161	164	170	189	223	227	221	223	
TJGS	GT1B		129	124	128	128	129	130	126	129	129	127	129	124	129	129	127	153	152	168	181	216	212	216	211	210	211	
TJGS	ST1C		170	170	174	171	171	171	171	171	171	171	171	171	171	171	192	188	200	211	241	244	244	244	226	234	243	
TJGS	GT2A		129	129	129	128	126	129	128	129	128	128	128	127	127	127	129	127	148	147	148	184	184	216	205	185	183	
TJGS	GT2B		125	125	125	125	126	125	128	125	125	125	125	125	125	125	125	126	124	123	145	146	146	181	182	213	200	
TJGS	ST2C		198	198	198	198	198	198	198	198	198	198	198	198	198	198	212	210	210	229	235	256	256	236	257	257	257	
YPKA	GT12		37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
YPKA	GT21		67	67	67	67	66	67	67	67	67	67	67	67	67	67	67	67	67	67	71	67	67	124	108	66		
YPKA	ST20		39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	43	40	40	60	56	40	40	
Total CCGT-Gas			5233	4929	4667	4519	4467	4529	4371	4381	4501	4460	4523	4489	4522	4551	4395	4480	4866	5490	5370	5454	5554	5876	5910	6062	5859	
Total 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	
BSIA	HY01		22	22	22	22	22	22	22	22	22	21	21	21	21	11	11	11	11	21	21	21	21	21	21	21	21	

Daily MW Generation on Friday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
BSIA	HY02	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
BSIA	HY03	23	23	23	23	23	23	23	22	23	23	23	23	23	23	23	23	23	23	24	23	23	24	24	24
CEND	HY01	9	9	10	9	10	10	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	9	10	9	10	10	10	9	10	10
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	0	0	9	0	0	10	10	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	8	7	8
HTRG	HY01	125	125	124	125	125	125	-1	-1	-1	-1	-1	-1	-1	-1	63	125	125	125	0	0	0	0	0	0
HTRG	HY02	124	123	124	124	123	124	125	63	-1	-1	-1	-1	-1	-1	63	124	125	125	125	125	125	124	124	124
KNRG	HY01	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNYR	HY01	100	97	100	100	99	100	98	97	100	99	99	99	99	99	58	59	101	99	97	99	99	98	99	100
KNYR	HY02	98	98	98	98	98	98	98	-1	-1	-1	-1	-1	-1	-1	98	101	101	99	101	100	102	102	101	99
KNYR	HY03	101	98	102	101	100	102	99	98	54	54	54	53	54	53	53	-1	-1	63	100	98	100	98	100	99
KNYR	HY04	100	98	102	100	100	101	99	98	100	101	99	99	99	99	59	59	102	99	97	99	99	99	102	96
LPIA	HY01	17	17	17	17	16	16	16	16	16	16	16	16	16	15	15	15	15	17	17	15	15	15	15	15
LPIA	HY02	17	17	17	17	16	16	16	16	16	16	16	16	16	16	16	15	15	15	15	15	15	15	15	15
MNOR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	4	4	4	4	7
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	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
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	51	30	30	30	30
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	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
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	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
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01	44	40	83	75	76	81	41	41	55	43	43	43	48	44	42	43	43	74	42	42	77	76	43	42
TMGR	HY02	86	85	86	86	86	86	35	35	36	36	36	36	36	36	36	36	36	47	87	86	87	87	88	87
TMGR	HY03	84	83	84	84	85	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	84	84	84	84	84	84	84	84
TMGR	HY04	85	84	85	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	85	85	84	85	85	85	85	85	85
UJLI	HY01	93	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	95	90	98	97	98	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	92	90	95	146	147	148
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
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		1388	1273	1339	1241	1240	1065	967	796	590	576	594	574	580	575	571	366	369	649	967	1182	1227	1284	1247	1220
Total Distillate		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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily MW Generation on Friday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																									
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	13	16	23	26	32	35	40	41	36	45	37	38	45	41	40	24	31	26	22	10	3	2	0	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	14	20	24	27	30	30	30	30	30	24	30	26	18	27	18	26	9	6	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	9	19	19	38	20	47	44	45	46	33	42	46	46	34	29	20	20	16	12	8	3	0	0	0	0	0	0	0	0	0	0	0	0	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	13	17	30	25	36	52	27	52	52	37	52	52	27	28	28	27	23	33	21	11	2	1	0	0	0	0	0	0	0	0	0	0	0	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	16	15	20	24	29	32	40	40	40	40	38	16	9	35	28	24	22	10	8	4	1	0	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	0	1	4	8	11	12	19	21	19	23	19	21	22	29	29	29	16	17	15	10	12	9	2	0	0	0	0	0	0	0	0	0	0	0	0		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	10	10	10	10	10	21	21	21	21	21	20	21	21	20	15	12	7	3	0	0	0	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	10	52	107	190	262	322	385	442	443	490	501	456	456	489	448	390	435	347	317	274	186	95	33	9	1	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	3	3	2	3	3	1	3	3	4	5	2	2	1	1	3	2	2	2	3	2	2	3	3	2	2	3	3	3	2	2	2	1	2	2	2	3	1	3	3	5	3	4	4	2	3	3			
PCUF	CUFK	4	5	3	4	2	2	3	2	2	7	3	4	2	1	3	3	4	4	4	2	2	3	3	4	6	3	2	4	3	3	4	3	4	3	3	3	3	3	4	5	4	4	5	2	4	4			
Total Co-Gen		7	8	5	7	5	3	6	5	6	12	5	6	3	2	6	5	6	6	7	4	5	5	5	6	7	8	5	5	7	6	5	6	5	5	5	5	5	5	6	4	6	7	10	7	8	9	4	7	7
Total Gen		15068	14665	14441	14201	13885	13794	13513	13359	13271	13229	13288	13253	13288	13316	13154	13042	13478	14422	14919	15343	15534	15971	16054	16165	15985	15894	15833	16204	16486	16894	17117	17168	17315	17335	16924	16528	16199	16040	16209	16393	16837	17011	16936	16948	16585	16443	16345	16037	
TIE-EGAT		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		
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-28	-28	-30	-30	-30	-30	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-30			
TIE-PLTG		-14	0	-9	-4	-25	2	-13	9	-25	-56	-52	-43	-62	-27	-39	-57	-38	-15	-21	-23	-77	-27	-50	-37	-27	-55	-2	-44	-14	11	3	-46	7	-28	-10	36	31	-15	88	11	73	-22	6	-6	-18	16	-23	23	
Interconnection		-43	-29	-38	-33	-55	-27	-42	-20	-54	-85	-81	-72	-91	-56	-68	-86	-66	-43	-49	-54	-107	-56	-78	-66	-57	-84	-32	-72	-42	-19	-27	-76	-23	-58	-39	7	2	-43	59	-17	45	-51	-23	-35	-47	-13	-52	-7	
System Total		15114	14697	14482	14238	13944	13825	13559	13382	13328	13317	13372	13328	13382	13375	13225	13132	13548	14469	14972	15400	15644	16030	16135	16234	16045	15981	15868	16279	16531	16916	17147	17247	17341	17396	16966	16525	16201	16087	16154	16413	16795	17065	16962	16987	16636	16460	16401	16047	
SRev ST-Coal		141	126	151	147	354	304	315	303	309	300	317	300	301	298	302	304	299	316	196	140	155	160	131	147	160	151	138	149	157	135	138	150	147	137	155	165	141	156	153	134	155	148	146	142	148	150	142	143	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		1853	2028	2287	2437	2488	2427	2585	2575	2451	2494	2434	2467	2435	2406	2561	2478	2091	1466	1586	1485	1307	987	954	802	847	1010	976	712	657	514	535	435	294	267	271	350	553	512	568	534	309	348	341	284	373	267	439	726	
SRev ST-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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	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	0
Syncon		302	489	489	576	576	850	850	825	1203	1203	1052	1203	1203	1304	1304	1116	777	676	676	676	676	489	338	489	489	338	302	302	302	302	302	302	302	302	302	489	489	151	489	555	302	0	126	192	379	379	530	566	
Hydro		276	204	138	148	149	50	148	345	173	187	320	189	183	188	192	295	292	200	221	108	63	61	98	187	350	148	158	323	380	284	327	389	303	389	399	310	232	412	188	343	294	525	538	687	518	380	266	271	
S.Reserve Total		2572	2847	3065	3308	3567	3631	3898	4048	4136	4184	4123	4159	4122	4095	4258	4381	3986	3098	2780	2409	2201	1884	1859	1625	1695	1798	1761	1522	1496	1235	1302	1276	1046	1095	1127	1314	1415	1231	1398	1566	1060	1021	1151	1305	1418	1176	1377	1706	