

Daily System Generation Summary on Friday

Friday, August 11, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,197 MW
Distillate	0 MW
Total TNB	2,197 MW
Total IPP	19,270 MW
Total Co-Gen	0 MW
Total System	25,469 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,937	4.43 %
Gas	52,045	13.60 %
Total TNB	68,982	18.02 %
ST-Coal	224,394	58.63 %
LSS	7,148	1.87 %
Gas	81,060	21.18 %
Total IPP	312,602	81.68 %
Co-Gen	370	0.10 %
Total Co-Gen	370	0.10 %
Total Generation	381,954	99.80 %
PLTG	-65	-0.02 %
HVDC	-698	-0.18 %
Interconnection	-763	-0.20 %
Net Energy	382,717	100.00 %

Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,881 MW
TNB Generation	3,470 MW
IPP Generation	14,405 MW
Spinning Reserve	1,016 MW
Maximum Demand	17,893 MW
Net Energy	382,717 MWH
Load Factor	89.12 %

Fuel Cost

Total Cost:	80,127,227.89 RM
Cost per Unit	20.94 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	273
Hydro	366
Syncon	500
Thermal	416
Total	1,555

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Cloudy	0

Gas Usage

Station	(mmcsfd)
GLGR	30
TJGS	99
Total TNB	128
CBPS	52
EMPP	210
NPRI	158
PCGP	89
SPGP	209
Total IPP	718
Total Gas	846
Total Gas Required	846

Alternate Fuel Usage

Station	(mmcsfd)
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	16170	15343	14781	14321	13800	13627	13619	13745	14021	15447	16259	16773	16838	16462	16935	17716	17825	17593	16627	16405	17493	17392	16878	16621

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, August 22, 2023 2:30:19 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Friday

[illegible]

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																															
KNYR	HY03	91	52	54	55	52	52	52	52	53	53	53	52	52	53	53	53	55	49	54	89	88	88	87	86	54	55	57	51	90	91	91	92	92	91	90	88	88	88	87	86	87	88	89	90	91	91	91	92							
KNYR	HY04	98	69	59	61	58	58	58	-1	-1	-1	-1	-1	-1	-1	-1	-1	54	60	98	98	98	98	98	97	57	57	59	57	98	98	98	98	98	98	97	98	98	98	98	97	98	98	98	98	98	98	98								
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14	14	15	15	15	15	15	15	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	15	14	13	13	13	13	13	13									
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14	12	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10									
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							
PGAU	HY01	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1								
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1								
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	0	0	0	0	0	0	0	0	22	21	0	0	0	0	0	0	0	0	0	0	0	0	0								
SIHY	HY01	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	50	30	0	0	0	0	50	50	50	30	30	30	30	30	30	30								
SIHY	HY02	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	30	30	30	30	30	30									
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	30	30	30	30	30	30						
SYPS	HY01	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	23	23	23	23	23	23	23						
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25							
SYPS	HY04	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	25	25	25	25							
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1							
TMGR	HY02	33	34	-1	2	35	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	31	31	31	33	33	29	33	33	33	84	84	84	33	32	33	33
TMGR	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	0	0	0	0	0	32	79	77	77	30	29	30	0	0	0			
TMGR	HY04	41	41	42	70	41	44	71	41	64	81	51	40	42	61	75	84	84	38	41	41	42	41	42	42	41	42	44	56	41	84	75	83	40	83	61	44	38	84	84	60	82	45	53	42	52	40	83	43	43	43					
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	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	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					
Total Hydro		721	656	471	535	439	466	499	399	420	458	368	344	345	481	471	484	489	463	508	597	652	632	620	629	547	478	482	519	473	866	1212	1100	1084	1222	1008	689	605	696	652	1068	1393	1413	1301	1102	953	981	840	843							
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	0	0	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	1	3	6	11	15	17	20	22	23	25	25	26	26	27	26	24	23	21	4	5	5	5	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
BKLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	14	19	17	23	28	30	32	33	27	15	24	30	26	26	21	18	13	9	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
BSLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	11	15	19	23	26	28	25	33	35	13	30	7	10	32	30	15	10	16	12	6	3	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	4	3	3	22	18	26	24	16	43	29	12	15	41	34	30	36	32	5	21	16	11	5	1	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	2	5	10	16	21	23	31	30	25	38	29	24	15	42	30	32	20	12	26	9	15	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
GELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	11	15	19	21	25	24	11	14	29	22	28	27	25	23	21	18	14	11	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	3	8	14	21	26	31	17	17	21	45	25	47	47	46	42	42	34	25	23	20	12	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
JELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	13	17	22	26	29	14	26	28	15	27	30	28	28	28	20	20	22	16	12	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	12	18	15	25	18	37	36	47	38	38	46	36	44	42	38	34	29	24	17	11	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0				
KDLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	11	33	45	58	67	75	83	83	91	53	24	90	55	26	64	67	38	27	45	30	15	7	0	0	0	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	0	0	5	9	16	21	27	31	35	37	40	42	43	46	46	43	32	39	28	18	20	19	13	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0					
KMLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	9	13	18	21	25	28	27	25	17	23	18	17	11	23	26	23	13	17	11	7	3	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		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	154	289	440	585	725	825	864	868	971	969	865	832	914	780	721	722	713	616	515	475	266	129	50	0	0	0	0	0	0	0	0	0	
ESTL	ESTL	6	10	12	14	15	10	11	12	8	8	12	8	11	16	12	11	5	10	6	8	0	0	0	0	1	9	6	6	0	0	0	0	0	0	0	5	9	9	12	12	10	10	4	4	5	2	0	
KHTC	BLK1	-25	-21	-21	-18	-18	-18	-17	-15	-15	-13	-13	-13	-18	-17	-16	-14	-21	-24	-28	-29	-31	-33	-34	-33	-37	-35	-39	-44	-42	-42	-44	-47	-46	-46	-43	-39	-37	-34	-34	-32	-31	-28	-27	-25	-25	-27	-24	
PCUF	CUFG	20	20	16	14	14	15	15	15	15	15	15	15	16	16	15	16	15	15	14	13	13	12	12	11	12	12	12	12	13	13	13	12	14	12	12	12	13	15	16	16	15	16	16	20	20			
PCUF	CUFK	2	7	8	7	8	9	7	7	9	7	8	20	21	20	19	20	21	22	21	22	21	22	21	21	21	21	20	21	21	21	20	21	21	20	19	21	21	20	19	21	20	20	19	19				
PFTZ	PFTZ	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	5	5	6	6	6	5	6	5	5	5	5	5	5	5	6	6	6	5		
Total Co-Gen		8	21	20	22	24	21	21	24	22	22	27	35	34	40	35	35	33	30	24	21	12	8	7	4	5	1	11	5	0	-5	-3	-5	-8	-10	-4	-7	4	10	15	18	20	21	24	17	21	22	20	20
Total Gen		16150	15603	15303	15030	14733	14494	14274	14009	13744	13641	13594	13571	13590	13851	13692	13604	13985	14840	15431	15839	16218	16432	16719	16713	16827	16643	16418	16317	16927	17251	17681	17702	17810	17865	17572	17207	16632	16204	16362	17063	17474	17533	17353	17150	16863	16796	16612	16410
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	-28	-31	-30	-30	-28	-28	-29	-28	-29	-28	-28	-29	-27	-30	-30	-28	-28	-30	-29	-28	-28	-29	-29	-22	-28	-31	-30	-29	-29	-28	-31	-28	-28	-31	-28	-28	-28	-31	-31	-29	-30	-31	-30		
TIE-PLTG		10	4	-11	-4	-18	-1	-17	-12	-28	-4	-4	-4	-1	-4	-24	-9	-8	27	14	-4	-12	-45	-25	-31	17	16	-15	-9	22	-14	-4	-28	14	1	7	26	34	-21	-12	-11	9	4	-9	-4	14	21	12	
Interconnection		-20	-26	-40	-33	-48	-32	-47	-40	-56	-33	-33	-34	-29	-33	-53	-38	-36	-3	-16	-32	-41	-75	-54	-60	-11	-12	-44	-38	-8	-42	-35	-59	-15	-28	-21	-4	5	-49	-43	-39	-19	-24	-39	-35	-15	-16	-9	-18
System Total		16170	15629	15343	15063	14781	14526	14321	14049	13800	13674	13627	13605	13619	13884	13745	13642	14021	14843	15447	15871	16259	16507	16773	16773	16838	16655	16462	16355	16935	17293	17716	17761	17825	17893	17593	17211	16627	16253	16405	17102	17493	17557	17392	17185	16878	16812	16621	16428
SRev ST-Coal		506	581	585	570	611	881	880	879	874	869	812	815	905	993	995	990	976	784	602	574	563	527	404	465	423	419	484	470	406	410	417	418	363	371	348	359	347	329	336	318	344	341	308	291	344	432	439	444
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		
SRev CCGT-Gas		175	178	143	148	176	155	145	173	146	148	160	167	189	178	327	721	708	947	750	766	638	567	380	338	247	370	474	353	135	50	102	109	112	83	85	79	323	647	351	141	180	140	150	161	195	130	170	370
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	
SRev Co-Gen		1	0	0	-1	0	0	0	-1	0	0	0	0	0	0	1	0	-1	-1	0	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	1	0	1	0	0	0	0	-1	0	0	1	0	2	0	0	
Syncon		764	764	805	764	865	714	865	815	966	966	966	966	966	865	865	865	865	764	613	764	613	764	764	764	764	764	764	764	390	302	151	302	302	0	462	764	764	764	489	302	302	489	489	676	489	577	577	
Hydro		262	327	321	298	293	417	233	383	211	173	223	247	246	211	221	208	203	370	476	236	332	201	213	204	246	315	311	274	320	341	270	533	398	260	926	683	315	224	268	527	389	369	294	448	448	421	387	384
S.Reserve Total		1708	1850	1854	1779	1945	2167	2123	2249	2197	2156	2161	2195	2306	2247	2409	2784	2751	2864	2441	2340	2145	2058	1761	1771	1680	1868	2033	1861	1625	1191	1090	1210	1176	1016	1360	1583	1749	1964	1719	1474	1215	1152	1241	1435	1670	1481	1580	1782