

Daily System Generation Summary on Friday

Friday, November 4, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,186 MW
Distillate	0 MW
Total TNB	2,186 MW
Total IPP	18,460 MW
Total Co-Gen	0 MW
Total System	24,187 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,298	5.08 %
Gas	52,497	14.59 %
Total TNB	70,795	19.67 %
ST-Coal	211,306	58.72 %
LSS	4,567	1.27 %
Gas	72,674	20.19 %
Total IPP	288,547	80.18 %
Co-Gen	579	0.16 %
Total Co-Gen	579	0.16 %
Total Generation	359,921	100.01 %
PLTG	1,353	0.38 %
HVDC	-1,315	-0.37 %
Interconnection	38	0.01 %
Net Energy	359,883	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	18,794 MW
TNB Generation	3,453 MW
IPP Generation	13,273 MW
Spinning Reserve	2,047 MW
Maximum Demand	16,705 MW
Net Energy	359,883 MWH
Load Factor	89.76 %

Fuel Cost

Total Cost:	129,724,908.71 RM
Cost per Unit	36.04 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,592
Hydro	285
Syncon	542
Thermal	152
Total	2,571

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Cloudy	28

Gas Usage

Station	(mmscfd)
GLGR	43
TJGS	150
Total TNB	193
CBPS	38
EMPP	254
NPRI	68
PCGP	57
PGLA	39
PLPS	37
SPGP	168
Total IPP	661
Total Gas	855
Total Gas Required	855

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	14969	14008	13720	13268	12875	12772	12943	12917	13342	14633	15534	16103	16128	15626	15947	16581	16644	16296	15639	16226	16534	16188	15661	15194

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 5, 2022 2:47:12 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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																									
JMAH	U002	706	704	703	707	701	705	704	704	706	705	605	604	659	708	708	707	705	702	709	703	705	704	704	702	706	704	700	703	708	706	709	708	706	705	703	706	706	705	705										
JMHE	U001	978	978	855	846	852	854	847	851	848	848	850	850	852	850	848	853	850	923	973	984	976	975	982	979	979	976	980	976	981	979	980	981	979	980	981	983	979	978	980	976	981	982	980	978	978	986	980	980	
JMHE	U002	981	978	853	849	848	850	846	848	850	848	850	850	849	846	848	851	850	953	977	978	969	972	975	974	976	972	976	972	976	975	976	971	972	975	976	976	973	973	976	972	976	976	975	982	978	980	976	975	
JMJG	U001	670	671	674	674	669	671	672	672	672	674	673	677	674	674	674	671	673	670	672	672	668	672	668	672	672	669	676	676	672	672	668	675	672	670	675	678	676	673	672	677	671	672	670	667	651	667	667	662	
JMJG	U002	663	668	671	670	667	670	670	672	662	670	669	672	671	672	668	668	670	672	669	669	668	671	672	668	669	673	668	676	672	673	677	679	671	681	673	673	670	681	666	679	671	675	677	672	678	676	678	670	
JMJG	U003	660	664	666	662	670	662	668	662	669	664	662	662	668	667	673	668	661	672	660	629	584	608	594	597	600	629	626	686	656	694	640	693	665	686	674	682	683	660	673	677	667	677	666	676	672	668	684	657	
JMJG	U004	964	906	854	853	853	853	853	852	853	854	855	854	854	854	852	852	859	916	976	972	974	972	973	972	972	973	974	974	972	973	974	972	972	973	974	973	972	972	974	972	970	973	971	970	974	974			
JMJG	U005	897	902	859	852	851	852	850	849	850	845	850	849	850	852	851	852	866	900	900	901	900	900	899	900	900	900	900	904	903	900	901	976	982	982	982	981	980	979	981	979	983	981	980	985	981	981			
PKLG	U003	280	278	279	280	278	169	158	156	161	161	161	160	160	160	144	145	173	256	285	280	279	285	278	278	279	279	283	280	288	285	285	283	285	277	280	280	280	279	278	278	278	279	269	278	278	278			
PKLG	U004	276	275	283	275	269	210	138	148	145	148	150	151	150	151	150	149	165	203	207	251	283	285	259	270	273	275	272	271	272	267	277	275	273	269	275	274	272	276	274	273	270	273	266	273	273	276	273	275	
PKLG	U005	152	152	152	152	150	150	152	152	150	150	152	150	152	150	152	152	152	152	152	157	167	228	288	350	422	481	471	468	466	464	468	467	468	464	466	466	466	466	466	466	466	466	465	466	366	267	269	268	
PKLG	U006	449	449	446	446	441	383	273	269	269	269	270	267	269	269	269	299	385	432	450	449	450	450	448	449	449	448	443	444	445	448	442	446	449	448	448	449	450	449	449	449	449	448	447	446	448	450	447		
TBIN	U002	702	705	703	700	701	701	693	455	453	453	453	453	454	452	454	455	453	452	453	454	452	454	452	453	454	451	453	451	453	453	453	451	452	453	454	453	450	451	453	453	453	454	454	482	455	450			
TBIN	U003	651	725	695	700	700	702	701	701	697	704	700	704	701	700	703	699	705	699	699	700	701	700	700	703	699	699	697	703	701	698	700	701	697	697	702	700	699	700	700	699	700	700	699	700	701	702			
Total ST-Coal		9029	9055	8693	8666	8650	8432	8225	7991	7985	7993	7900	7903	7963	8005	7994	7991	8081	8555	8764	8800	8774	8874	8895	8961	9050	9135	9124	9178	9163	9188	9156	9198	9166	9259	9251	9276	9264	9245	9235	9257	9245	9259	9236	9251	9121	9089	9071	9024	
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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CBPS	BLK2	201	199	200	198	202	201	201	190	193	197	202	201	197	193	197	191	200	201	198	197	202	201	201	194	193	196	201	201	201	201	338	364	358	268	202	262	370	302	277	204	202	201	202	204	197	201			
EMPP	BLK1	410	409	411	409	410	411	410	410	396	402	410	410	408	410	408	402	408	396	407	411	517	411	419	410	417	401	403	406	418	686	711	709	710	715	691	669	515	711	726	709	707	713	707	640	601	600	597	646	
EMPP	BLK2	426	410	410	410	441	410	410	410	395	402	410	440	462	454	408	401	409	396	407	412	706	482	552	475	575	531	401	585	677	709	712	712	710	716	691	711	709	712	725	709	711	712	710	710	709	712	702	711	
EMPP	BLK3	597	410	410	409	431	421	411	418	395	402	409	440	463	451	408	402	408	396	407	642	707	701	709	710	709	683	679	689	713	609	712	711	710	716	691	711	710	712	725	709	711	712	710	710	709	713	702	711	
GLGR	GT01	94	93	93	92	94	93	92	93	93	94	92	93	92	93	93	91	93	108	109	108	109	107	110	107	66	64	65	64	67	64	66	67	65	67	66	67	66	66	66	66	66	66	66	66	66	66	66		
GLGR	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	25	35	81	93	108	109	109	108	108	107	107	65	66	66	65	65	65	65	65	65	65	66	65	66	66	65	65	66	66	66	66	66	66	65	66	66
GLGR	ST1C	41	41	40	40	41	41	40	41	41	41	40	40	40	38	41	81	97	98	98	98	99	99	100	79	71	70	71	71	71	71	71	71	71	71	71	71	71	71	70	71	71	71	71	71	70	70	70		
NPRI	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	45	122	123	122	122	124	122	122	122	
NPRI	BLK2	306	307	307	305	309	308	312	306	293	297	302	312	305	308	305	292	304	293	307	307	304	299	309	310	313	296	295	299	307	310	451	518	516	518	511	519	518	515	527	513	511	516	512	512	511	515	507	305	
PCGP	PGRG	601	597	439	395	405	402	400	402	384	385	391	401	397	401	391	394	395	241	247	250	248	245	251	251	244	242	246	252	252	251	251	251	251	258	247	253	252	256	276	398	603	509	500	475	397	410	395	403	
PGLA	GT12	147	151	149	151	151	151	152	151	151	152	152	152	151	151	152	151	151	151	151	151	151	151	151	147	145	147	149	150	151	150	150	152	149	151	146	152	156	151	149	150	100	0	0	0	0	0			
PGLA	ST10	87	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	84	85	84	85	84	83	83	0	0	0	0	0			
PLPS	GT11	128	128	128	128	128	128	129	129	128	128	128	128	129	129	129	129	129	129	128	129	130	129	128	128	128	128	128	128	128	128	128	128	128	129	128	129	129	129	128	128	128	129	129	128	128	128	128		
PLPS	ST18	58	58	57	57	57	57	57	58	58	57	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58		
SPGP	BLK1	550	550	547	547	452	449	451	451																																									

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
HTRG	HY02	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY01	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	35	35	36	36	36	36
KNRG	HY02	38	38	38	38	38	38	37	38	38	38	38	38	37	38	37	37	37	37	37	37	37	37	37	37
KNRG	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
KNYR	HY01	98	99	99	99	99	99	98	99	99	99	99	99	99	99	99	99	98	99	99	98	98	99	99	99
KNYR	HY02	103	103	104	104	103	104	101	101	100	100	100	101	101	101	103	103	103	103	103	103	103	103	103	103
KNYR	HY03	100	0	0	0	0	18	96	97	97	98	98	99	99	100	101	101	101	100	99	98	98	97	97	97
KNYR	HY04	101	102	101	101	101	101	101	101	100	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
LPIA	HY01	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	22
LPIA	HY02	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
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
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	20	-1	21	120	120	120	80	22	21	22	22
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	121	122	122	81	22	-1	-1	-1
SIHY	HY01	50	0	0	0	0	0	0	0	0	0	19	51	51	51	51	51	0	0	0	0	0	50	50	50
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
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	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	-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	-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	HY04	41	41	41	42	67	51	41	47	39	42	43	42	41	45	42	38	42	40	42	41	41	39	39	40
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	141	147	147	93	-1	-1	-1	-1
UPIA	HY01	7	7	7	7	7	7	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
UPIA	HY02	0	0	0	0	0	0	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		730	518	518	519	543	546	613	620	612	636	618	639	636	674	670	665	670	671	693	621	642	1003	1021	1032
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
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
JELS	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
JSLs	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
KDLS	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
KKLS	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
KMLS	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
KNLS	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
KRLS	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
MCLS	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
MNLS	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
PKLS	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
SPLS	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
SSLS	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
STLS	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
TBLS	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			
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	94	189	318	412	468	592	642	655	707	760	675	514	538	590	472	472	329	304	197	119	53	14	5	5	4	0	0	0	0	0	0			
ESTL	ESTL	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
KHTC	BLK1	2	3	3	3	1	3	4	2	2	1	4	3	2	1	3	3	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	5	4	5	3	5	3	4	5	5	4	4	4	4	4	5	4	5	5	4	4	5	5	5	5	4	4	5	3	5	3	4	3	5	4	5	4	4	4	5	5	5	5	5	5	4	4			
PCUF	CUFK	5	4	3	4	3	3	3	4	3	4	4	4	3	2	3	5	4	5	4	5	3	4	4	3	4	4	3	3	4	5	2	4	3	3	4	5	4	4	2	3	4	3	0	4	3	3	3		
Total Co-Gen		27	26	26	25	24	24	26	26	25	25	27	26	24	22	25	28	25	27	26	24	22	23	24	24	23	23	23	23	21	24	25	20	23	21	23	23	25	23	23	21	23	25	25	22	24	26	25	26	
Total Gen		14948	14549	14028	13826	13666	13401	13256	13033	12885	12808	12736	12844	12923	13195	12903	12940	13333	14073	14610	15029	15534	15827	16072	16108	16121	15886	15606	15776	15941	16328	16589	16685	16667	16747	16374	15985	15672	15528	16284	16652	16589	16451	16217	15863	15656	15377	15233	14860	
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	0	
TIE-HVDC		-29	-27	-28	-31	-28	-28	-28	-28	-30	-30	-29	-29	-28	-27	-30	-30	0	-77	-78	-77	-77	-77	-80	-77	-80	-77	-77	-79	-80	-79	-80	-79	-78	-77	-77	-77	-77	-78	-79	-77	-79	-78	-78	-30	-28	-27	-27	-28	
TIE-PLTG		8	90	48	32	-26	-3	16	-29	40	24	-7	-11	7	-7	16	-22	-10	73	55	12	78	81	49	118	73	75	57	62	74	71	87	159	101	119	155	104	110	114	136	160	135	91	107	14	24	-7	66	-12	
Interconnection		-21	62	20	1	-54	-31	-12	-57	10	-6	-36	-40	-20	-34	-14	-52	-9	-4	-23	-66	0	4	-31	41	-7	-2	-20	-17	-6	-8	8	80	23	42	78	27	33	36	58	83	55	14	29	-16	-5	-34	39	-40	
System Total		14969	14487	14008	13825	13720	13432	13268	13090	12875	12814	12772	12884	12943	13229	12917	12992	13342	14077	14633	15095	15534	15823	16103	16067	16128	15888	15626	15793	15947	16336	16581	16605	16644	16705	16296	15958	15639	15492	16226	16569	16534	16437	16188	15879	15661	15411	15194	14900	
SRev ST-Coal		214	185	404	416	437	510	465	506	513	506	581	575	538	499	490	499	490	369	179	187	212	59	208	122	103	87	98	134	149	124	156	114	146	153	161	136	148	167	177	155	167	153	176	161	172	114	132	179	
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	0
SRev CCGT-Gas		2002	2214	2373	2548	2885	2935	2942	2938	3071	3180	3143	3058	3034	2995	3275	3252	3026	2858	2680	2317	1861	1984	1829	1883	1889	2043	2194	1968	1813	1508	1341	1282	1150	1153	1222	1505	1739	1771	1402	949	1021	1220	1366	1504	1226	1338	1457	1391	
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	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		791	917	917	917	917	917	917	917	917	766	917	766	917	917	917	917	917	917	766	917	766	428	428	428	428	615	766	766	766	766	428	428	428	428	766	766	766	917	428	428	428	428	428	428	428	615	615	615	
Hydro		145	81	81	80	56	73	86	79	87	221	88	218	70	82	86	91	86	85	214	85	215	192	184	173	294	346	228	227	224	222	312	312	330	313	166	219	222	83	306	461	441	442	438	435	438	338	344	348	
S.Reserve Total		3152	3397	3775	3961	4295	4435	4410	4440	4588	4673	4729	4617	4559	4493	4768	4759	4519	4229	3839	3506	3054	2663	2649	2606	2714	3091	3286	3095	2952	2620	2237	2136	2054	2047	2315	2626	2875	2938	2313	1993	2057	2243	2408	2528	2264	2455	2548	2533	