

Daily System Generation Summary on Saturday

Saturday, July 23, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,212 MW
Distillate	0 MW
Total TNB	2,212 MW
Total IPP	19,762 MW
Total Co-Gen	0 MW
Total System	25,489 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,948	4.74 %
Gas	46,521	13.02 %
Total TNB	63,469	17.77 %
ST-Coal	193,467	54.16 %
LSS	6,397	1.79 %
Gas	92,771	25.97 %
Total IPP	292,635	81.93 %
Co-Gen	735	0.21 %
Total Co-Gen	735	0.21 %
Total Generation	356,839	99.90 %
PLTG	2,003	0.56 %
HVDC	-2,353	-0.66 %
Interconnection	-350	-0.10 %
Net Energy	357,189	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:	20:30:00 Hour
Total Set On Bus	18,434 MW
TNB Generation	3,013 MW
IPP Generation	13,572 MW
Spinning Reserve	1,819 MW
Maximum Demand	16,633 MW
Net Energy	357,189 MWH
Load Factor	89.48 %

Fuel Cost

Total Cost:	117,301,277.49 RM
Cost per Unit	32.87 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	688
Hydro	418
Syncon	738
Thermal	501
Total	2,345

Time	Weather	Temperature
Afternoon	Rainy	31
Morning	Rainy	27

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	91
Total TNB	120
CBPS	47
EMPP	309
NPRI	144
PCGP	84
SPGP	186
Total IPP	771
Total Gas	891
Total Gas Required	891

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	15275	14606	14076	13611	13371	13052	13051	12986	12791	13912	14711	15353	15233	15112	15680	15994	16082	15957	15521	15584	16587	16553	16143	15825

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, August 8, 2022 4:13:22 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

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	U001	220	214	215	215	215	215	216	216	216	216	216	216	216	217	216	213	214	214	213	216	215	215	214	215	215	216	215	216	214	213	213	215	214	214	214	215	214	215	214	304	596	706	707	707	705	705	700	693	404	310
JMAH	U002	215	214	214	214	214	215	213	214	214	214	213	214	214	214	213	214	214	213	213	214	217	214	213	213	214	214	214	214	213	214	272	217	355	641	696	701	699	696	699	695	697	696	697	698	342	219	214	214		
JMHE	U001	977	976	901	901	901	900	849	849	852	798	797	799	804	801	801	801	802	799	800	898	900	981	980	984	978	979	977	978	983	980	982	977	977	979	980	978	982	983	979	978	976	978	980	980	979	980	979	979	974	
JMHE	U002	977	978	898	899	898	896	849	846	853	798	797	801	804	800	800	799	799	798	801	898	899	977	981	981	980	980	980	983	982	980	981	978	980	980	980	978	982	980	978	981	978	982	980	981	979	981	983	977		
JMJG	U001	671	666	669	669	670	667	666	667	670	663	667	668	666	666	667	671	662	671	662	669	662	666	668	671	672	666	666	664	662	667	662	668	667	668	666	663	666	665	668	667	666	665	667	662	666	672	665	667		
JMJG	U002	678	672	671	674	676	673	668	673	672	673	673	672	674	672	677	677	672	675	671	674	673	673	673	675	674	672	671	673	678	674	677	673	677	677	677	673	673	677	671	673	677	673	680	673	678	676	673	678		
JMJG	U003	668	665	672	669	667	667	666	667	667	666	672	670	671	667	671	667	668	670	668	673	668	667	676	669	668	667	671	667	671	667	670	666	669	671	668	678	666	669	668	670	667	666	671	671	668	667	667	671		
JMJG	U004	973	972	927	902	900	900	853	854	854	832	805	806	804	801	804	805	804	804	804	848	904	930	976	973	972	975	972	972	975	976	970	974	973	974	972	973	973	977	971	972	972	972	973	975	973	975	975	972		
PKLG	U003	150	149	150	151	146	147	146	149	125	156	148	150	149	148	150	149	148	150	150	148	151	151	150	149	149	149	147	147	148	149	149	153	150	147	148	151	149	148	148	148	149	147	146	146	148	149	149	149		
PKLG	U004	156	158	151	152	152	151	152	151	152	154	153	151	151	150	151	152	158	155	153	148	154	155	153	148	148	147	153	155	151	150	153	154	151	152	150	150	153	147	152	149	148	159	156	153	159	157				
PKLG	U005	269	271	268	269	268	269	269	269	268	267	267	271	268	269	271	268	267	269	267	268	268	268	268	268	269	268	267	269	270	269	269	268	268	268	270	267	268	271	271	268	269	267	269	268	268	269	269	267		
PKLG	U006	267	269	267	269	269	269	269	268	269	267	268	268	269	269	268	268	269	267	268	269	267	268	269	267	270	267	268	268	268	269	269	269	269	269	267	270	267	269	268	268	269	267	269	269	267	269	267			
TBIN	U002	501	310	211	212	213	213	214	213	214	213	212	215	212	213	212	212	213	216	214	343	500	646	698	693	695	693	695	695	696	695	694	694	692	694	697	693	693	689	691	692	689	701	690	693	697	691	689			
TBIN	U003	212	211	211	210	212	212	211	210	213	211	210	212	211	212	212	214	211	214	212	213	212	213	212	211	209	236	386	577	692	693	691	691	690	693	690	690	692	690	695	690	693	692	691	690	691	696	693	693		
TBIN	U004	936	940	901	903	903	903	852	852	856	820	800	805	803	802	802	803	802	802	803	868	905	936	943	940	940	942	935	941	940	938	938	930	943	941	940	938	943	944	941	937	942	938	942	942	938	938	935	943		
Total ST-Coal		7870	7665	7326	7309	7304	7297	7093	7099	7094	6948	6899	6915	6919	6901	6916	6913	6901	6915	6907	7221	7433	7814	8024	8068	8050	8074	8209	8417	8546	8536	8592	8523	8677	8966	9013	9018	9025	9112	9391	9497	9498	9492	9518	9507	9148	9033	8724	8628		
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	0		
CBPS	BLK2	353	354	358	323	218	219	219	218	217	223	221	218	223	219	220	222	223	221	345	361	357	354	360	356	343	223	217	223	284	355	356	357	354	352	357	353	307	218	220	337	359	360	357	355	360	359	363	361		
EMPP	BLK1	684	686	705	690	698	693	692	690	689	709	698	690	711	691	705	710	709	703	710	711	695	685	703	693	674	710	688	708	707	683	700	710	684	683	694	683	709	698	703	710	705	704	691	687	700	697	711	709		
EMPP	BLK2	698	704	710	703	707	706	706	704	706	709	704	705	711	705	708	710	709	705	710	710	706	701	708	705	691	709	703	710	714	702	711	710	700	697	707	698	710	710	707	710	709	709	705	701	710	709	712	708		
EMPP	BLK3	683	687	712	691	698	693	693	690	683	709	701	690	711	690	702	709	708	702	710	707	695	686	704	692	675	710	689	708	709	687	701	711	684	679	694	683	707	698	703	710	704	704	690	687	698	696	712	708		
GLGR	GT02	94	94	94	94	95	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94					
GLGR	ST1C	40	40	40	40	41	41	40	41	40	41	41	41	41	40	41	41	40	41	41	41	41	41	41	41	41	41	40	42	40	41	41	41	41	40	40	41	41	41	41	41	41	41	41	41	41	41	40			
NPRI	BLK1	503	507	514	508	511	512	511	394	313	320	318	314	322	316	316	320	321	319	515	515	509	505	513	509	499	515	507	515	512	508	511	515	505	503	511	506	514	511	514	514	513	513	512	506	514	512	518	515		
NPRI	BLK2	509	512	517	513	449	367	382	373	328	355	332	328	335	331	331	343	334	411	423	373	485	503	499	455	440	424	328	335	460	502	506	513	500	498	474	466	384	379	380	520	486	494	446	439	472	454	532	529		
PCGP	PGRG	579	583	599	591	590	588	592	591	588	452	446	438	400	443	392	402	422	598	603	604	592	583	598	588	567	603	587	600	599	585	597	607	582	575	592	580	603	594	596	600	595	596	589	585	601	596	607	604		
SPGP	BLK1	727	725	725	727	726	724	724	727	726	725	725	726	725	725	727	500	602	720	719	717	717	568	567	568	568	569	568	567	568	567	568	568	567	569	568	567	567	570	568	568	570	570	569	568	570	568	568	568		
SPGP	BLK2	714	714	713	714	714	713	712	713	714	715	713	713	712	713	713	598	602	719	716	716	718	567	569	566	568	567	566	567	567	567	569	568	567	569	568	567	569	568	567	569	568	568	570	568	568	570				
TJGS	GT2A	218	218	189	132	132	132	132	132	132	129	129	132	131	131	131	130	132	131	129	151	219																													

Daily MW Generation on Saturday

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	HY01	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
KNYR	HY02	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
KNYR	HY03	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
KNYR	HY04	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
LPIA	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
LPIA	HY02	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
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	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	HY02	81	80	111	150	115	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
PGAU	HY04	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
SIHY	HY02	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY03	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01	25	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY03	25	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04	25	17	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	83	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY03	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	41	41	42	41	45	40	41	41	39	62	41	40	42	42	41	46	41	42	53	53	40	39	41	40
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
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
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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		1123	968	913	951	820	657	659	658	656	681	645	644	646	649	616	527	523	523	532	530	517	535	515	514
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
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 Saturday

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	0	18	100	189	340	495	581	648	732	808	905	822	829	807	805	849	815	670	603	590	439	329	240	148	34	9	0	0	0	0	0	0	0	0	0
PCUF	CUFG	3	5	5	5	4	4	4	4	5	3	4	4	5	5	6	5	5	5	5	5	5	4	5	5	6	5	5	6	5	5	5	5	4	4	4	5	4	4	4	4	4	4	4	5	5	5	5	4	
PCUF	CUFK	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26			
Total Co-Gen		29	31	31	31	30	30	30	30	31	29	30	30	31	31	32	31	31	31	31	31	31	31	30	31	31	32	31	31	32	31	31	31	31	30	30	30	31	30	30	30	30	30	30	30	31	31	31	31	30
Total Gen		15289	14952	14559	14338	14054	13787	13600	13475	13332	13161	13017	12996	13034	13000	12965	12590	12772	13343	13849	14288	14673	14998	15333	15372	15236	15136	15090	15338	15657	15950	16034	16063	16073	16158	15941	15624	15510	15406	15582	16296	16604	16615	16560	16364	16135	15919	15785	15590	
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		-99	-97	-96	-97	-99	-99	-97	-100	-97	-99	-97	-98	-100	-99	-100	-97	-99	-97	-98	-98	-98	-97	-98	-98	-97	-98	-99	-99	-97	-97	-98	-97	-100	-99	-100	-99	-100	-97	-98	-98	-97	-99	-96	-99	-99	-99			
TIE-PLTG		113	100	50	86	77	91	86	89	58	84	62	78	82	85	78	14	78	62	34	40	60	64	77	72	100	72	77	55	75	117	139	110	89	115	81	72	89	91	98	73	115	80	105	127	92	112	59	141	
Interconnection		14	3	-47	-11	-22	-8	-11	-11	-39	-16	-35	-20	-17	-13	-21	-85	-19	-37	-63	-59	-38	-34	-20	-26	3	-25	-22	-42	-23	18	40	13	-9	17	-16	-25	-11	-8	-2	-24	17	-18	7	30	-8	16	-40	43	
System Total		15275	14949	14606	14349	14076	13795	13611	13486	13371	13177	13052	13016	13051	13013	12986	12675	12791	13380	13912	14347	14711	15032	15353	15398	15233	15161	15112	15380	15680	15932	15994	16050	16082	16141	15957	15649	15521	15414	15584	16320	16587	16633	16553	16334	16143	15903	15825	15547	
SRev ST-Coal		570	580	810	824	824	834	892	878	877	891	882	881	884	890	878	879	890	875	888	856	830	621	536	487	501	504	511	506	431	436	444	459	439	425	380	371	368	369	379	305	306	311	282	303	373	363	448	446	
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		
SRev CCGT-Gas		323	302	301	543	690	787	772	902	1039	1087	1147	1183	1152	1171	1189	1489	1373	905	551	579	479	620	558	639	915	972	1150	1072	882	619	560	518	643	676	690	898	935	1055	1043	718	564	552	644	675	577	612	480	499	
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 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 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		588	588	676	676	676	697	697	697	697	697	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	848	697	676	827	848	848	848	827	827	722	535	535	571	571	571	571	571	722		
Hydro		340	408	390	392	423	387	385	386	388	363	399	400	398	395	348	337	341	341	332	334	347	480	349	350	414	399	408	424	423	426	422	447	550	556	504	508	504	503	504	301	426	421	374	529	522	463	420	348	
S.Reserve Total		1821	1878	2177	2435	2613	2705	2746	2863	3001	3038	3255	3291	3261	3283	3242	3532	3431	2948	2598	2596	2483	2397	2270	2303	2657	2702	2896	2829	2563	2308	2274	2121	2308	2484	2422	2625	2655	2754	2753	2046	1831	1819	1871	2078	2043	2009	1919	2015	