

Daily System Generation Summary on Saturday

Saturday, November 12, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,264 MW
Distillate	0 MW
Total TNB	2,264 MW
Total IPP	18,108 MW
Total Co-Gen	0 MW
Total System	23,785 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,195	5.42 %
Gas	60,635	18.06 %
Total TNB	78,830	23.48 %
ST-Coal	154,284	45.95 %
ST-Gas	6,478	1.93 %
LSS	3,456	1.03 %
Gas	91,273	27.18 %
Total IPP	255,491	76.08 %
Co-Gen	983	0.29 %
Total Co-Gen	983	0.29 %
Total Generation	335,304	99.85 %
PLTG	181	0.05 %
HVDC	-675	-0.20 %
Interconnection	-494	-0.15 %
Net Energy	335,798	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:	19:30:00 Hour
Total Set On Bus	18,195 MW
TNB Generation	3,731 MW
IPP Generation	11,779 MW
Spinning Reserve	2,652 MW
Maximum Demand	15,642 MW
Net Energy	335,798 MWH
Load Factor	89.45 %

Fuel Cost

Total Cost:	113,874,962.62 RM
Cost per Unit	33.96 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,180
Hydro	308
Syncon	702
Thermal	485
Total	2,675

Time	Weather	Temperature
Afternoon	Cloudy	32
Morning	Sunny	24

Gas Usage

Station	(mmcsfd)
GLGR	46
TJGS	153
Total TNB	199
CBPS	40
EMPP	301
NPRI	74
PCGP	89
PLPS	51
SKSP	45
SPGP	210
PKLG	63
Total IPP	872
Total Gas	1,071
Total Gas Required	1,071

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	13985	13425	12981	12751	12447	12346	12373	12278	12423	13391	14201	14788	14604	14520	14911	15051	14997	14767	14591	15206	15375	15200	14608	14031

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 5, 2022 11:36:14 AM

(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	U002	214	212	214	214	214	214	213	213	214	214	213	213	213	213	213	214	343	487	707	707	705	707	705	708	700	705	702	706	705	704	703	701	706	706	705	705	707	702	709	705	705	701	469	267					
JMHE	U001	974	975	980	978	891	890	797	801	801	800	799	799	801	800	800	798	798	798	799	881	878	924	928	928	928	929	926	931	925	951	948	951	953	947	952	951	952	951	947	955	979	977	983	976	916	919	919		
JMHE	U002	976	978	981	976	885	890	798	801	804	798	801	798	802	800	800	797	800	798	799	884	879	924	927	932	926	931	927	930	927	950	949	952	950	947	948	949	952	950	949	951	973	975	975	975	920	921	921	921	
JMJG	U001	665	664	661	666	668	661	666	671	667	666	667	667	667	666	669	670	668	666	667	671	665	672	667	662	667	668	666	669	668	665	667	669	667	667	667	668	671	665	668	667	667	662	670	668	663	668	666	666	
JMJG	U002	671	671	677	674	678	673	672	672	678	673	675	675	673	674	674	677	677	672	675	675	674	675	671	672	673	674	668	675	674	669	674	676	676	672	669	677	669	672	676	676	668	678	672	673	672	673	672	672	
JMJG	U003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JMJG	U004	979	957	894	824	758	756	751	675	622	609	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JMJG	U005	972	973	977	974	898	891	834	797	801	801	797	797	801	803	798	800	804	798	841	881	881	939	931	930	928	932	927	930	923	955	945	947	958	951	952	951	956	949	950	951	975	977	976	977	944	921	923	921	
PKLG	U003	151	150	151	149	151	149	149	149	151	150	151	152	152	149	152	151	149	149	151	149	151	156	151	150	148	152	149	150	150	148	150	150	150	151	149	151	150	150	148	149	151	152	149	150	153	151	149	151	
PKLG	U005	268	268	269	269	269	269	267	269	267	267	270	270	267	268	269	269	267	269	269	269	269	268	272	269	268	269	271	268	269	268	268	269	267	268	269	271	267	269	269	268	269	269	268	269	268	269	269	269	
TBIN	U001	209	211	212	210	210	209	211	211	211	211	212	211	210	211	211	211	211	210	210	211	297	399	604	698	697	699	697	699	698	697	701	699	697	698	701	697	698	695	698	698	699	700	693	699	695	537	329	209	
TBIN	U002	212	213	212	213	213	214	214	213	213	213	213	213	214	215	212	213	212	213	212	213	237	357	484	619	706	709	702	705	702	701	700	701	699	702	699	700	701	701	701	698	701	702	665	368	212	209	215	211	
TBIN	U003	212	212	213	212	212	212	212	212	212	212	212	212	214	212	213	212	212	213	213	214	212	213	212	212	212	212	212	212	214	302	408	588	690	713	698	699	703	703	702	701	675	483	324	208	216	212	213	215	213
Total ST-Coal		6503	6484	6441	6359	6047	6028	5785	5684	5640	5614	5011	5007	5015	5012	5011	5011	4999	5049	5262	5486	6014	6554	6779	6859	6882	6850	6879	6938	7117	7292	7410	7435	7405	7408	7419	7592	7676	7727	7738	7658	7549	7471	7226	6960	6821	6387	6069		
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	0	
PKLG	U006	269	269	269	270	269	269	269	268	268	267	267	269	269	269	269	269	268	268	331	267	269	268	268	268	268	268	268	268	268	268	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	
Total ST-Gas		269	269	269	270	269	269	269	268	268	267	267	269	269	269	269	269	268	268	331	267	269	268	268	268	268	268	268	268	268	268	269	269	269	269	269	269	269	270	270	269	269	269	269	269	269	269	269		
CBPS	BLK2	232	193	201	199	201	201	202	204	201	201	202	204	205	202	201	202	302	358	354	361	363	359	359	362	355	199	198	268	353	290	201	199	198	198	200	201	193	201	201	209	199	201	201	207	197	196	355	361	
EMPP	BLK1	683	569	510	527	622	621	658	650	600	589	706	671	714	702	636	692	622	703	677	710	710	703	706	714	687	701	698	704	759	761	759	704	695	700	614	643	538	420	673	722	585	711	708	715	702	688	689	708	
EMPP	BLK2	683	675	526	529	620	619	657	650	600	591	705	676	714	699	641	690	624	704	678	710	710	705	709	714	687	702	693	714	686	708	707	712	694	701	692	708	700	667	709	721	678	711	710	716	698	688	687	709	
EMPP	BLK3	683	681	565	579	673	667	702	690	642	633	707	710	714	706	683	704	666	705	678	710	710	705	708	713	687	703	693	714	686	708	708	708	694	700	694	708	656	711	709	721	708	711	710	615	698	688	689	710	
GLGR	GT01	66	67	67	69	67	67	68	69	70	69	68	69	68	68	68	68	65	83	105	103	77	66	67	66	65	65	67	64	67	66	64	66	66	65	66	65	66	65	66	67	66	66	67	65	65	66	67		
GLGR	GT02	66	65	65	65	65	65	65	65	65	64	65	65	65	64	65	64	66	66	84	103	103	75	65	66	66	66	65	65	65	66	65	66	65	65	65	65	66	66	66	66	66	66	66	66	66	66	66	66	
GLGR	ST1C	70	70	70	70	70	70	70	70	71	71	70	71	71	71	70	71	71	70	77	93	94	83	71	70	71	70	71	71	71	70	71	71	71	70	70	72	71	70	70	71	71	70	71	71	70	70	70		
NPRI	BLK1	506	299	311	311	316	316	316	319	316	316	389	523	525	522	518	522	522	518	511	520	524	514	520	523	512	401	446	518	510	518	519	440	441	438	407	318	304	320	317	325	518	318	314	323	413	514	513	523	
NPRI	BLK2	296	407	436	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PCGP	PGRG	590	588	601	603	600	602	604	608	601	602	605	607	612	606	600	604	603	597	586	600	555	597	598	608	585	595	596	610	584	604	599	597	593	592	594	600	580	604	602	622	595	606	601	615	592	584	585	601	
PLPS	GT12	65	65	68	68	69	69	69	69	68	69	69	69	69	69	68	69	68	69	119	148	152	152	118	70	69	69	68	69	69	69	69	66	70	65	70	64	69	69	73	70	72	69	73	69	65	65	69		
PLPS	GT13	56	56	59	59	59	59	59	59	58	60	59	60	59	60	59	59	61	59	60	134	142	141	108	60	60	60	59	60	60	59	59	57	60	56	59	55	60	63	59	62	60	62	60	56	55	59			
PLPS	ST18	89	89	89	91	90	90	90	90	90	90	93	91	93	92	90	93	90	106	143	144	145	130	93	92	91	92	92	92	93	93	94	92	92	93	87	92	87	93	92	94	93	95	92	94	93	90	88	90	
SKSP	BLK1	217	218	218	219	217	216	218	218	216	218	221	263	214	218	242	225	315	335	337	336	340	219	219	217	217	220	221	219	218	219	218	219	219	220	215	219	217	219	222	220	220	219	222	218	217	217	233		
SPGP	BLK1	707	704	71																																														

Daily MW Generation on Saturday

		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		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	
HTRG		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	
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	
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	
KNRG		HY02	24	24	25	24	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNRG		HY03	21	21	21	21	21	21	21	21	21	21	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
KNYR		HY01	100	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	100	100	100	101	101	101	101	
KNYR		HY02	103	103	103	103	103	103	103	103	103	103	103	103	103	103	102	103	103	103	103	103	103	103	103	103	
KNYR		HY03	99	99	99	98	97	97	97	96	96	96	97	97	98	99	99	99	99	99	98	98	97	96	96	96	
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	23	23	23	23	23	23	22	22	22	22	22	22	22	12	16	18	18	18	16	17	20	21	21	22	
LPIA		HY02	22	22	22	22	22	22	22	22	22	22	21	21	21	21	16	18	18	16	17	20	21	21	22	23	
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	22	22	21	22	22	22	-1	-1	-1	-1	112	51	21	21	22	-1	-1	-1	-1	-1	82	81	81	81	
PGAU		HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	113	22	-1	-1	-1	-1	-1	83	82	83	83	83	83	83	
SIHY		HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	51	51		
SIHY		HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50		
SYPS		HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	
SYPS		HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	
TMGR		HY01	-1	-1	0	-1	0	0	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	0	0	0	-1	-1	
TMGR		HY04	39	39	41	41	41	41	41	41	41	41	41	42	50	82	44	41	83	40	41	42	82	41	41	48	
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	0	0	0	0	0	5	5	6	6	
UPIA		HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	4	5	5	5	5	
Total Hydro			619	635	638	635	637	648	588	587	586	586	814	662	612	599	599	577	575	594	595	602	635	640	636	658	614
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	
BKLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	8	12	30	14	21	23	23	22	11	
BSLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	7	9	12	15	12	17	30	29	21	
CHLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	7	16	22	23	25	27	26	18	8	17	6	
GBLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	5	4	8	4	4	6	8	14	22	
GELS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	6	4	8	8	16	12	20	23	11	
GNLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	9	16	17	23	25	27	15	42	19	
JELS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	5	10	19	10	29	20	13	19	20	10	17	
JLSL		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	7	15	19	14	26	32	16	14	22	24	33	
KDLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	8	10	20	28	35	33	34	51	92	62	47	
KKLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	9	11	15	14	24	22	28	46	32	29	
KMLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5	7	11	13	9	18	25	25	26	
KNLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	31	50	80	74	50	71	87	74	100	
KRLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	15	21	18	18	30	30	30	30	24	30	
MCLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	10	23	30	27	32	42	
MNLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	10	22	44	57	66	68	87	75	53	
PKLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	7	7	7	12	22	17	17	15	12	27	32	
SPLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	16	17	25	28	24	23	50	27	34	
SSLs		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	18	22	16	26	29	19	24	46	29	
STLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	1	1	3	11	16	15	23	14	15	
TBLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	2	6	6	7	6	7	10	8	6	

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	8	47	91	171	237	345	371	342	413	520	613	632	519	605	537	380	324	257	203	140	93	49	26	2	0	0	0	0	0	0	0	0				
ESTL	ESTL	14	14	14	15	15	13	13	9	12	13	13	10	8	13	15	13	19	15	15	14	11	12	13	17	18	23	24	19	23	16	22	11	14	21	21	21	21	12	1	0	8	2	9	9	12	12	0	0	
KHTC	BLK1	4	3	1	2	2	0	4	4	2	2	1	3	3	4	5	3	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1				
PCUF	CUFG	5	5	4	5	6	6	5	7	7	7	7	5	5	5	5	7	7	6	5	5	5	6	6	6	5	6	6	5	6	4	6	6	5	7	6	6	7	6	6	5	5	4	7	6	7	8	7		
PCUF	CUFK	26	27	26	26	29	25	25	27	28	26	26	27	26	29	25	6	4	3	4	4	4	5	3	4	4	25	27	5	2	27	27	25	27	25	27	27	27	26	27	27	25	26	25	25	25	27	28	27	
Total Co-Gen		49	49	45	48	52	44	47	47	49	48	47	45	42	51	50	29	32	27	25	23	20	23	22	27	28	53	57	30	30	49	53	42	47	51	55	54	54	45	34	33	38	33	38	41	43	46	38	35	
Total Gen		13957	13697	13407	13064	12904	12879	12698	12575	12371	12313	12330	12249	12346	12390	12290	12214	12360	13043	13382	13937	14192	14630	14794	14811	14682	14578	14594	14734	14936	15086	15076	15072	14978	14927	14766	14728	14616	14652	15167	15543	15354	15273	15168	14909	14587	14326	13996	13827	
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		-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28		
TIE-PLTG		0	57	10	-6	-49	14	-25	-18	-48	-9	12	-36	1	-1	40	3	-35	-14	19	-15	19	23	34	-13	106	126	102	-19	53	60	53	15	10	29	27	17	53	16	-11	-71	7	-38	-4	-55	7	-27	-7	-48	
Interconnection		-28	29	-18	-35	-77	-14	-53	-46	-76	-37	-16	-64	-27	-29	12	-25	-63	-43	-9	-43	-9	-5	6	-41	78	98	74	-47	25	31	25	-13	-19	1	-1	-11	25	-12	-39	-99	-21	-66	-32	-83	-21	-55	-35	-76	
System Total		13985	13668	13425	13099	12981	12893	12751	12621	12447	12350	12346	12313	12373	12419	12278	12239	12423	13086	13391	13980	14201	14635	14788	14852	14604	14480	14520	14781	14911	15055	15051	15085	14997	14926	14767	14739	14591	14664	15206	15642	15375	15339	15200	14992	14608	14381	14031	13903	
SRev ST-Coal		508	527	561	569	791	803	705	779	830	846	692	696	695	696	692	689	690	697	694	689	696	599	533	466	395	376	408	378	409	332	340	264	271	304	300	293	379	298	313	482	420	371	329	372	481	572	645	636	
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		1714	1971	2242	2504	1821	1830	1711	1731	1892	1923	1529	1452	1312	1276	1359	1400	1294	656	446	238	281	407	748	1054	1327	1556	1530	1320	1299	1281	1383	1474	1529	1502	1652	1655	1888	1909	1648	1496	1540	1559	1577	1532	1534	1488	1146	910	
SRev ST-Gas		44	44	44	44	45	45	45	44	44	44	45	45	45	45	45	45	45	44	44	44	44	45	44	44	44	44	44	44	44	44	44	45	45	45	45	45	45	44	44	44	44	44	44	45	45	45	45		
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		865	865	777	865	777	777	1016	1016	1016	1016	714	714	777	865	865	928	928	1016	1016	1016	928	714	714	714	714	777	865	865	865	865	865	714	714	626	626	626	714	714	252	252	340	340	340	340	340	340	678	678	
Hydro		238	222	220	222	221	222	90	91	92	92	166	318	218	206	206	90	99	72	71	64	32	328	332	296	340	206	206	165	147	145	150	223	225	224	204	202	209	205	381	204	258	206	220	297	338	409	301	235	
S.Reserve Total		3456	3716	4018	4291	3829	3851	3654	3748	3961	4008	3233	3312	3221	3175	3254	3326	3230	2572	2358	2138	2155	2180	2458	2661	2907	3133	3140	2859	2851	2754	2869	2806	2871	2875	3001	2995	3322	3257	2812	2652	2689	2607	2597	2672	2825	2941	2902	2591	