

Daily System Generation Summary on Friday

Friday, October 28, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,372 MW
Distillate	0 MW
Total TNB	2,372 MW
Total IPP	17,967 MW
Total Co-Gen	0 MW
Total System	23,330 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,462	5.68 %
Gas	36,059	10.01 %
Total TNB	56,521	15.68 %
ST-Coal	206,483	57.29 %
LSS	4,321	1.20 %
Distillate	6,404	1.78 %
Gas	85,699	23.78 %
Total IPP	302,907	84.05 %
Co-Gen	599	0.17 %
Total Co-Gen	599	0.17 %
Total Generation	360,027	99.89 %
PLTG	1,281	0.36 %
HVDC	-1,661	-0.46 %
Interconnection	-380	-0.11 %
Net Energy	360,407	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	18,114 MW
TNB Generation	3,529 MW
IPP Generation	13,552 MW
Spinning Reserve	1,013 MW
Maximum Demand	17,039 MW
Net Energy	360,407 MWH
Load Factor	88.13 %

Fuel Cost

Total Cost:	124,160,546.15 RM
Cost per Unit	34.48 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	646
Hydro	387
Syncon	628
Thermal	159
Total	1,820

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	132
Total TNB	161
CBPS	42
EMPP	273
NPRI	70
PCGP	75
PGLA	77
PLPS	3
SPGP	89
Total IPP	627
Total Gas	788
Total Gas Required	892

Alternate Fuel Usage

Station	(mmscfd)
PGLA	32
PGLA	32
PLPS	36
SGRI	5
Total	104

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	14614	14062	13490	13106	12792	12658	12886	13017	13334	14907	15694	15988	16005	15671	16080	16893	16935	16600	15874	16418	16278	16029	15515	15005

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, November 2, 2022 5:23:04 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	697	703	705	702	705	706	708	706	706	704	705	706	702	702	704	706	705	712	706	702	704	706	707	704	703	705
JMHE	U001	980	978	900	898	902	898	897	848	845	849	852	849	850	851	852	851	852	932	981	983	981	978	980	977	979	
JMHE	U002	982	979	901	898	900	899	897	848	848	848	853	848	848	851	853	851	852	923	979	980	982	979	980	980	979	
JMJG	U001	673	672	672	672	672	672	673	674	670	672	673	672	674	673	676	671	668	675	672	671	670	672	671	670	672	
JMJG	U002	422	422	421	421	421	422	420	419	427	464	546	574	580	554	568	570	571	581	578	577	612	681	681	687	689	
JMJG	U003	677	673	675	676	677	674	676	675	677	678	676	671	676	671	674	678	677	675	675	681	667	673	672	661	601	
JMJG	U004	975	973	924	902	901	900	853	853	852	852	854	855	856	855	855	854	856	870	926	977	971	971	972	972	973	
JMJG	U005	978	976	900	895	901	896	849	848	850	849	847	852	849	851	856	854	851	849	939	980	983	978	983	980	981	
PKLG	U003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	30	42	52	70	81	86	
PKLG	U004	276	278	276	275	277	275	275	274	269	278	274	279	291	281	275	277	278	277	275	275	272	277	277	274	275	274
PKLG	U006	448	448	449	448	449	448	450	448	451	449	448	449	446	449	450	448	448	449	446	446	446	449	448	445	445	
TBIN	U002	704	703	702	701	702	706	700	702	702	701	705	700	705	703	703	702	701	702	698	699	702	702	702	705	703	
TBIN	U003	701	699	702	699	698	699	700	701	698	698	699	699	696	699	699	699	698	698	699	700	698	696	701	700	696	
Total ST-Coal		8513	8504	8227	8187	8205	8195	8097	7995	7999	8040	8131	8155	8170	8144	8160	8162	8160	8331	8578	8675	8707	8763	8794	8804	8814	
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	200	196	200	200	200	196	198	201	194	196	200	198	201	201	196	200	201	199	201	200	196	197	197	206	349	
EMPP	BLK1	698	499	497	407	419	408	413	375	369	370	373	374	374	375	373	377	379	414	412	412	704	712	687	710	685	
EMPP	BLK2	703	692	711	621	419	408	411	375	369	369	373	374	374	375	373	377	380	413	616	705	706	713	709	710	692	
EMPP	BLK3	703	692	711	708	567	478	632	590	534	406	407	408	456	410	409	413	429	597	709	709	712	713	708	710	692	
GLGR	GT01	93	92	93	92	93	92	92	94	92	92	93	93	95	93	93	93	94	94	92	92	93	92	92	92	94	
GLGR	ST1C	41	40	42	41	42	41	42	41	42	41	40	41	40	41	41	41	41	41	41	41	41	41	41	41	41	
NPRI	BLK2	347	302	309	308	307	304	304	309	304	299	304	304	309	308	304	304	313	518	518	518	516	515	518	519	511	
PCGP	PGRG	249	248	250	251	249	245	248	249	245	244	250	248	267	404	412	405	410	600	601	602	601	594	603	602	592	
PGLA	GT11	229	227	228	230	233	231	232	233	231	229	232	233	235	234	231	231	234	231	231	230	228	227	225	227	224	
PGLA	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	170	
PGLA	ST10	226	226	227	226	227	226	228	227	228	227	225	225	227	228	227	228	228	228	227	226	225	227	226	226	227	
PLPS	GT11	0	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	ST18	61	61	61	60	60	60	60	60	60	60	61	60	60	60	60	60	60	61	61	60	60	60	60	60	60	
SGRI	ST24	58	58	59	58	58	59	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SPGP	BLK1	363	363	362	365	363	365	364	363	362	364	365	362	363	547	461	359	614	717	717	717	717	713	716	714	706	
TJGS	GT1A	100	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
TJGS	ST1C	64	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	74	74	74	74	74	74	74	74	74	
TJGS	GT2A	131	131	132	131	131	133	132	134	133	133	133	133	131	131	131	131	132	132	132	132	132	132	132	132	132	
TJGS	GT2B	126	125	127	126	126	126	126	126	126	126	126	126	127	126	127	126	127	126	126	126	126	126	126	126	127	
TJGS	ST2C	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	
Total CCGT-Gas		4586	4347	4404	4219	3889	3767	3912	3770	3685	3551	3578	3573	3657	3927	3833	3741	4037	4767	5083	5169	5462	5455	5444	5467	5373	
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	21	21	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BSIA	HY02	20	20	20	20	20	20	20	20	20	20	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
BSIA	HY03	22	22	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
CEND	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	7	
HTRG	HY01	62	62	62	62	62	62	62	62	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
HTRG	HY02	118	117	116	99	99	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	

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	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	38	38	38	37	37	37	37	37	37	38	37	38	37	37	37	37	37	37	37	37	37	37	37	37	
KNRG	HY02	0	0	0	37	38	37	37	38	37	37	38	38	37	37	38	37	38	37	37	37	37	37	37	37	
KNYR	HY01	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
KNYR	HY02	103	103	103	103	103	103	103	103	103	104	103	103	103	103	103	103	103	103	103	103	103	103	103	103	
KNYR	HY03	101	100	100	100	99	98	98	98	98	59	97	99	100	100	99	98	98	99	99	98	97	97	98	101	
KNYR	HY04	101	101	101	101	101	101	101	101	101	60	60	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	82	82	83	80	22	22	
PGAU	HY02	22	22	22	22	22	22	22	22	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	40	-1	-1	-1	
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	22	0	81	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	0	0	0	
SIHY	HY01	50	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	31	50	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	0	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	25	0	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	34	34	34	79	78	78	
TMGR	HY02	33	33	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	35	35	35	35	35	66	62	
TMGR	HY03	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32	32	33	62	58	0	
TMGR	HY04	41	41	45	41	47	41	41	80	40	42	43	43	76	41	41	47	80	44	43	43	42	45	41	43	
UJLI	HY01	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	95	95	95	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	96	187	187	174	
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		946	863	866	847	853	702	702	742	701	703	541	569	645	610	630	616	650	644	643	642	640	743	736	738	733
PGLA	GT12	209	210	208	209	213	212	213	212	213	212	213	211	211	208	207	206	205	204	203	203	160	162	0	0	
PLPS	GT13	138	135	137	137	139	137	138	139	134	135	137	139	137	138	139	139	138	137	138	142	137	137	140	140	
SGRI	GT21	129	129	128	130	129	129	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Distillate		476	474	473	476	481	478	386	351	346	348	349	352	348	351	348	347	352	348	348	346	346	345	343	341	342
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	6	6	9	13	19	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	11	15	16	22	22	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	12	15	21	28	18	23	14	31	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	8	9	20	32	35	41	40	22	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5	6	10	14	17	17	20	23	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5	9	11	14	18	23	23	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	10	12	19	24	28	29	27	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	11	12	16	17	20	23	26	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	9	14	22	20	29	45	34	32	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	16	22	29	35	49	72	62	45	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	8	11	15	20	31	33	43	40	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	6	8	11	13	20	29	23	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	15	21	37	45	58	66	49	59	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	9	12	14	15	15	18	16	16	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	12	17	19	23	27	22	24	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	16	27	29	32	36	46	44	

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						
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	35	30	29	35	46	56	55	71	77	109	110	77	94	104	62	57	58	42	16	6	1	1	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	2	5	12	17	20	25	43	45	46	27	37	30	15	29	35	39	28	12	7	5	4	2	1	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	3	6	11	16	20	22	36	28	27	32	23	33	17	22	26	32	18	11	1	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	1	2	4	7	9	14	17	22	16	19	29	22	18	25	25	17	20	13	9	12	5	2	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	1	3	6	9	15	30	17	14	19	23	30	27	30	30	30	30	26	21	18	3	1	0	0	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	0	18	76	154	212	309	422	522	634	648	652	711	690	680	694	572	458	416	332	231	134	58	24	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTL	ESTL	14	13	12	13	16	18	19	23	20	20	19	14	14	19	17	16	15	20	20	21	22	19	20	20	15	17	15	12	16	15	13	13	13	15	18	18	18	15	12	13	13	13	17	17	17	15	15	19				
KHTC	BLK1	2	2	1	3	4	3	0	0	3	2	5	3	4	4	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	3	1	2	1	3	2	2	0					
PCUF	CUFG	4	3	4	4	3	4	3	3	4	3	6	4	5	3	4	3	4	5	4	3	3	3	3	4	5	3	2	4	4	4	4	5	2	2	2	4	4	4	4	4	2	3	4	4	3	5	2	4				
PCUF	CUFK	4	4	5	4	3	3	2	3	3	4	5	4	4	3	4	4	5	3	4	5	4	2	3	4	4	2	2	3	4	4	5	3	3	3	4	3	4	3	4	5	4	3	3	4	5	4	4					
Total Co-Gen		24	22	22	24	26	28	24	29	30	29	35	25	27	29	26	25	30	27	28	30	26	25	27	24	24	19	18	23	23	21	23	18	20	24	25	25	22	24	24	22	21	26	25	26	26	24	27					
Total Gen		14545	14210	13992	13753	13454	13170	13121	12887	12761	12671	12634	1267																																								