

Daily System Generation Summary on Thursday

Thursday, October 29, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,017 MW
Distillate	0 MW
Total TNB	2,017 MW
Total IPP	19,094 MW
Total Co-Gen	0 MW
Total System	23,646 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,562	2.75 %
Gas	34,911	10.04 %
Total TNB	44,473	12.79 %
ST-Coal	254,786	73.27 %
LSS	2,821	0.81 %
Gas	45,541	13.10 %
Total IPP	303,148	87.18 %
Co-Gen	163	0.05 %
Total Co-Gen	163	0.05 %
Total Generation	347,784	100.02 %
PLTG	760	0.22 %
HVDC	-699	-0.20 %
Interconnection	61	0.02 %
Net Energy	347,723	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	19:30:00 Hour
Total Set On Bus	17,969 MW
TNB Generation	2,774 MW
IPP Generation	13,424 MW
Spinning Reserve	1,762 MW
Maximum Demand	16,218 MW
Net Energy	347,723 MWH
Load Factor	89.34 %

Fuel Cost

Total Cost:	41,416,448.32 RM
Cost per Unit	11.91 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	547
Hydro	202
Syncon	1,018
Thermal	622
Total	2,389

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	122
Total TNB	151
CBPS	43
NPRI	152
PLPS	3
Total IPP	198
Total Gas	349
Total Gas Required	349

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	15400	14678	14176	13620	13292	13087	12982	12577	12159	13262	14008	14580	14741	14602	15222	15459	15335	15084	14717	15500	16110	15930	15538	15261

Prepared By: -Select Name-

Checked By: -Select Name-

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(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

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	
KNRG	HY03	23	24	23	23	24	23	23	23	23	23	23	23	23	22	23	23	23	22	23	23	24	23	24	22	23	23	22	23	24	24	23	23	23	23	24	36	35	36	36	36	36	36	36	35	36			
KNYR	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	61	54	60	62	-1	-1	-1	-1	-1	-1	-1	-1	98	47	59	56	72	65	92	64	65		
KNYR	HY02	59	63	61	59	70	58	60	60	61	60	61	61	59	59	58	57	61	59	52	62	59	71	60	73	56	61	60	88	99	62	54	83	91	97	60	85	58	58	99	59	48	61	58	68	60	82	63	59
KNYR	HY03	-1	-1	54	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	42	54	-1	-1	-1	98	53	53				
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	18	18	18	18	18	18	18	18	18	18	18			
LPIA	HY02	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18		
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	4	4	4	4	4	4	3	3	3	3	3	3	6	6	7	7	7	7	7	7	7		
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-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		
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
SIHY	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	0	30	50	49	50	30	0	0	0	0	0	0	0	0	0	50	49	31	49	49	49	49	49	31
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	0	0	30	30	0	0	0	0	0	0	0	0	0	50	50	31	50	50	50	50	50	50	31	

Daily MW Generation on Thursday

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		
SRev ST-Coal		355	675	736	730	792	813	804	809	872	879	878	875	872	873	961	1145	1141	961	927	893	833	842	675	651	672	763	775	761	674	574	402	533	673	664	545	685	677	666	530	318	362	404	497	511	500	382	387	382	
SRev CCGT-Gas		731	660	855	633	573	646	609	608	591	619	620	618	650	621	677	623	617	623	748	631	607	605	630	606	722	728	615	562	575	590	584	554	584	565	604	587	648	616	557	457	320	257	409	396	406	400	262	276	
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 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 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 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		1017	1017	916	1017	1017	1017	1017	1017	866	1204	1053	1204	1204	1204	1053	1204	1204	1204	1116	1116	1116	1116	1116	1116	1116	965	1116	965	1116	914	1015	864	1015	929	1203	1203	1203	1029	1029	640	827	827	864	1015	864	914	914	914	
Hydro		145	138	189	147	127	150	145	144	273	144	271	143	145	144	148	274	142	146	164	143	145	118	144	113	155	270	162	223	73	230	248	277	127	174	152	98	156	271	180	352	338	210	398	239	405	111	325	401	
S.Reserve Total		2248	2490	2696	2527	2509	2626	2575	2578	2602	2846	2822	2840	2871	2842	2990	3095	3104	2934	3043	2783	2701	2681	2565	2486	2665	2726	2668	2511	2438	2308	2249	2228	2399	2332	2504	2573	2684	2582	2296	1767	1847	1698	2168	2161	2175	1807	1888	1973	