

Gas based Power Plants

†3370. SHRI DHARMENDRA PRADHAN : Will the Minister of POWER be pleased to state :

(a) the details of present capacity of gas based power generating stations in the country, State-wise;

(b) the details of the requirement and supply of gas for different power projects in the country during each year of the last three years and the current year, State/ Union Territory-wise;

(c) whether the power generation of many gas based power projects has suffered due to shortage of gas supply;

(d) if so, the details thereof, State-wise;

(e) whether Government proposes to allocate more natural gas for gas based power generation in the country; and

(f) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI K.C. VENUGOPAL) : (a) The details of present capacity of gas based power generating stations monitored by CEA in the country indicating its state is given in Statement-I (*See below*).

(b) The details of the requirement and supply of gas for different power projects in the country during each year of the last three years and the current year, State/ Union Territory-wise is as under :

Sl. No.	Years	Capacity at the end of year (MW)	Gas Requirement at 90% PLF (MMSCMD)	Average Gas Supplied (MMSCMD)
1.	2009-10	15,769.27	78.09	55.45
2.	2010-11	16,639.77	81.42	59.31
3.	2011-12	16,926.27	81.44	56.28

(c) Yes, Sir. The power generation of many gas based power projects has suffered due to shortage of gas supply.

(d) The generation loss during the year 2011-12, project wise mentioning the state in which it is located, due to short supply of gas as reported to CEA is given in Statement-II (*See below*).

† Original notice of the question was received in Hindi.

(e) and (f) Domestic gas will be allocated as per the gas allocation priority as and when additional domestic gas is available.

Statement I

Details of Present Gas based Capacity being monitored by CEA

Sl.No.	Name of Power Station	Located in the State	Installed Capacity @ (MW)
1	2	3	4
Central Sector			
1.	Faridabad CCPP	Haryana	431.59
2.	Anta CCPP	Rajasthan	419.33
3.	Auraiya CCPP	Uttar Pradesh	663.36
4.	Dadri CCPP	Uttar Pradesh	829.78
SUB TOTAL (NR)			2344.06
5.	Gandhar CCPP	Gujarat	657.39
6.	Kawas CCPP	Gujarat	656.2
7.	Ratnagiri CCPP I	Maharashtra	740
8.	Ratnagiri CCPP II	Maharashtra	740
9.	Ratnagiri CCPP III	Maharashtra	740
SUB TOTAL (WR)			3533.59
10.	Kathalguri CCPP	Assam	291
11.	Agartala GT	Tripura	84
SUB TOTAL (NER)			375
TOTAL (CS)			6252.65
State Sector			
12.	I.P. CCPP	Delhi	270
13.	Pragati CCGT-III	Delhi	750
14.	Pragati CCPP	Delhi	330.4
15.	Dholpur CCPP	Rajasthan	330
16.	Ramgarh CCPP	Rajasthan	113.8
SUB TOTAL (NR)			1794.2

1	2	3	4
17.	Dhuvaran CCPP	Gujarat	218.62
18.	Hazira CCPP	Gujarat	156.1
19.	Utran CCPP	Gujarat	518
20.	Uran CCPP	Maharashtra	672
SUB TOTAL (WR)			1564.72
21.	Karaikal CCPP	Puducherry	32.5
22.	Kovikalpal CCPP	Tamil Nadu	107
23.	Kuttalam CCPP	Tamil Nadu	100
24.	Narimanam GPS	Tamil Nadu	10
25.	Valuthur CCPP	Tamil Nadu	186.2
SUB TOTAL (SR)			435.7
26.	Lakwa GT	Assam	120
27.	Namrup CCPP	Assam	95
28.	Namrup ST	Assam	24
29.	Baramura GT	Tripura	58.5
30.	Rokhia GT	Tripura	90
SUB TOTAL (NER)			387.5
TOTAL (SS)			4182.12
Pvt Sector			
31.	Vatwa CCPP	Gujarat	100
32.	Trombay CCPP	Maharashtra	180
SUB TOTAL (WR)			280
TOTAL (PVT S)			280
Pvt IPP Sector			
33.	Rithala CCPP	Delhi	108
SUB TOTAL (NR)			108

1	2	3	4
34.	Baroda CCPP	Gujarat	160
35.	Essar CCPP	Gujarat	515
36.	Peguthan CCPP	Gujarat	655
37.	Sugen CCPP	Gujarat	1147.5
SUB TOTAL (WR)			2477.5
38.	Gautami CCPP	Andhra Pradesh	464
39.	GMR Energy Ltd - Kakinada	Andhra Pradesh	220
40.	Godavari CCPP	Andhra Pradesh	208
41.	Jegurupadu CCPP	Andhra Pradesh	455.4
42.	Konaseema CCPP	Andhra Pradesh	445
43.	Kondapalli Extn. CCPP	Andhra Pradesh	366
44.	Kondapalli CCPP	Andhra Pradesh	350
45.	Peddapuram CCPP	Andhra Pradesh	220
46.	Vemagiri CCPP	Andhra Pradesh	370
47.	Karuppur CCPP	Tamil Nadu	119.8
48.	P. Nallur CCPP	Tamil Nadu	330.5
49.	Valantarvy CCPP	Tamil Nadu	52.8
SUB TOTAL (SR)			3601.5
50.	DLF Assam GT	Assam	24.5
SUB TOTAL (NER)			24.5
TOTAL (PVT. IPP S)			6211.5
GRAND TOTAL			16926.27

@ Installed capacity is as on last day of the year.

Statement II*Generation Loss during the Year 2011-12.*

Sl. No.	Name of Power Station	Installed Capacity @ (MW)	Located in the State	Gen (MUs)	Gen Loss due to short supply of Gas as reported (MUs)
1	2	3	4	5	6
Central Sector					
1.	Faridabad CCPP	431.59	Haryana	3067.72	0
2.	Anta CCPP	419.33	Rajasthan	2674.6	0
3.	Auraiya CCPP	663.36	Uttar Pradesh	3878.62	0
4.	Dadri CCPP	829.78	Uttar Pradesh	5376.07	0
SUB TOTAL (NR)		2344.06		15017.01	0
5.	Gandhar CCPP	657.39	Gujarat	3684.07	3.09
6.	Kawas CCPP	656.2	Gujarat	3638.4	0
7.	Ratnagiri CCPP I	740	Maharashtra	2950.5	714.49
8.	Ratnagiri CCPP II	740	Maharashtra	4846.46	593.33
9.	Ratnagiri CCPP III	740	Maharashtra	3822.12	1661.26
SUB TOTAL (WR)		3533.59		18941.55	2971.17
10.	Kathalguri CCPP	291	Assam	1765.17	194.02
11.	Agartala GT	84	Tripura	666.12	0
SUB TOTAL (NER)		375		2431.29	194.02
TOTAL (CS)		6252.65		3639.85	3165.2
State Sector					
12.	I.P. CCPP	270	Delhi	1243.72	0
13.	Pragati CCGT-III	750	Delhi	331.38	141.14
14.	Pragati CCPP	330.4	Delhi	2560.05	0
15.	Dholpur CCPP	330	Rajasthan	2253.77	249.42

1	2	3	4	5	6
16.	Ramgarh CCPP	113.8	Rajasthan	536.79	0
SUB TOTAL (NR)		1794.2		6925.71	390.56
17.	Dhuvaran CCPP	218.62	Gujarat	1008.7	0
18.	Hazira CCPP	156.1	Gujarat	907.62	0.52
19.	Utran CCPP	518	Gujarat	2987.98	21.84
20.	Uran CCPP	672	Maharashtra	4668.789	224.45
SUB TOTAL (WR)		1564.72		9573.08	246.81
21.	Karaikal CCPP	32.5	Puducherry	251.46	0
22.	Kovikalpal CCPP	107	Tamil Nadu	705.75	155.23
23.	Kuttalam CCPP	100	Tamil Nadu	413.29	137
24.	Narimanam GPS	10	Tamil Nadu	0	0
25.	Valuthur CCPP	186.2	Tamil Nadu	1114.56	0
SUB TOTAL (SR)		435.7		2485.06	292.23
26.	Lakwa GT	120	Assam	771.99	77.56
27.	Namrup CCPP	95	Assam	565.73	27
28.	Namrup ST	24	Assam	0	0
29.	Baramura GT	58.5	Tripura	357.62	0
30.	Rokhia GT	90	Tripura	419.1	0
SUB TOTAL (NER)		387.5		2114.44	104.55
TOTAL (SS)		4182.12		21098.29	1034.15
Pvt. Sector					
31.	Vatwa CCPP	100	Gujarat	459.26	403.16
32.	Trombay CCPP	180	Maharashtra	1567.9	29
SUB TOTAL (WR)		280		2027.16	432.16
TOTAL (PVT. S)		280		2027.16	432.16

1	2	3	4	5	6
Pvt. IPP Sector					
33.	Rithala CCPP	108	Delhi	241.83	141.7
	SUB TOTAL (NR)	108		241.83	141.7
34.	Baroda CCPP	160	Gujarat	668.74	549.77
35.	Essar CCPP	515	Gujarat	135.89	0
36.	Peguthan CCPP	655	Gujarat	3037.07	0
37.	Sugen CCPP	1147.5	Gujarat	7592.16	921.26
	SUB TOTAL (WR)	2477.5		11463.86	1471.73
38.	Gautami CCPP	464	Andhra Pradesh	2898.67	960.34
39.	GMR Energy Ltd. - Kakinada	220	Andhra Pradesh	1200.03	0
40.	Godavari CCPP	208	Andhra Pradesh	1282.46	435.39
41.	Jegurupadu CCPP	455.4	Andhra Pradesh	2833.49	860.97
42.	Konaseema CCPP	445	Andhra Pradesh	2266.22	488.09
43.	Kondapalli Extn. CCPP	366	Andhra Pradesh	2203.54	0
44.	Kondapalli CCPP	350	Andhra Pradesh	2030.94	757.77
45.	Peddapuram CCPP	220	Andhra Pradesh	1318.82	565.38
46.	Vemagiri CCPP	370	Andhra Pradesh	2066.81	409.07
47.	Karuppur CCPP	119.8	Tamil Nadu	797.1	0
48.	P. Nallur CCPP	330.5	Tamil Nadu	1526.19	0
49.	Valantarvy CCPP	52.8	Tamil Nadu	377.51	9.14
	SUB TOTAL (SR)	3601.5		20801.78	4486.15
50.	DLF Assam GT	24.5	Assam	0	124.76
	SUB TOTAL (NER)	24.5		0	124.76
	TOTAL (PVT. IPP S)	6211.5		32507.47	6224.34
	GRAND TOTAL	16926.27		92022.77	10855.84

@ Installed capacity is as on last day of the year.

* Normative gas requirement at 90% PLF taking GCV of gas = 9000 k. Cal./SCM (except for Ramgarh CCGT for which GCV is 4150 kCal/SCM), station heat rate - 2900 k. Cal/kWh for open cycle and 2000 k. Cal/kWh for combined cycle and is as on last day of the year.

MUs - Million Units

MMSCMD - Million Standard Cubic Meters per Day

HSD - High Speed Diesel