## GOVERNMENT OF INDIA MINISTRY OF NEW AND RENEWABLE ENERGY

#### LOK SABHA

## **UNSTARRED QUESTION NO. 19**

TO BE ANSWERED ON 02.02.2017

### GENERATION OF WIND POWER

#### 19. SHRI RAJESHBHAI CHUDASAMA

Will the Minister of NEW & RENEWABLE ENERGY be pleased to state:

- (a) the details of the schemes to encourage wind power generation in the country;
- (b) the details of the total generation of wind energy in the country, vis-a-vis total power generated from other sources of renewable energy during each of the last three years and the current year, State-wise;
- (c) the ratio of contribution made by wind energy to the total energy consumption in the country during the above period; and
- (d) the measures taken by the Government to augment wind power in the country including technological advancements made in this direction?

#### **ANSWER**

MINISTER OF STATE FOR POWER, COAL, NEW & RENEWABLE ENERGY AND MINES (INDEPENDENT CHARGE) (SHRI PIYUSH GOYAL)

- (a): The Government is promoting wind power projects through private sector investment by providing fiscal and financial incentives such as Accelerated Depreciation (AD) benefit; concessional custom duty, special additional duty and excise duty exemption on certain components of wind electric generators; 10 years tax holiday on income generated from wind power projects; etc. In addition, Generation Based Incentive (GBI) Scheme is available for the projects not availing AD benefit, under which Rs.0.50/unit is being provided to eligible wind power generators, with a ceiling of Rs. 1.00 crore per MW.
- **(b):** Central Electricity Authority (CEA) has started compiling the renewable energy generation data from 2014-15 onwards.

The State/UT-wise quantum of energy produced from wind energy vis-a-vis total power generated from other sources of renewable energy during 2014-15, 2015-16 and current year (till 30.11.2016) is given at Annexure-I.

- (c): During 2014-15, 2015-16 and current year (till 30.11.2016) the wind energy contribution was 3.04%, 2.81% and 4.43% of the total electricity generated in the country respectively.
- (d): To augment wind power in the country, in addition to the providing fiscal and financial incentives as stated in part (a) above, following steps have been taken:
  - Technical support including wind resource assessment and identification of potential sites is provided by the National Institute of Wind Energy, Chennai.
  - Most of the wind potential exists in 7-8 windy States. In order to facilitate inter-state
    sale of wind power, the inter-state transmission charges and losses have been waived
    off for the wind projects to be commissioned by March 2019.
  - For optimum utilisation of resources Repowering Policy has been issued in August 2016 that provides enabling framework for replacement of old and small capacity wind turbines with high capacity wind turbines.

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## Annexure-I

# Statement referred to in reply to part (b) of Lok Sabha Unstarred Question No. 19 for 02/02/2017 regarding 'Generation of Wind Power'

## Energy produced from wind energy vis-a-vis total power generated from other sources of renewable energy

(All figures in MU)

Name	Sl. No.	State/UT	2014-15		2015-16		2016-17 (Up to November 2016)	
2         Delhi         0.00         116.63         0.00         128.97         0.00         95.           3         Haryana         0.00         470.69         0.00         1343.15         0.00         363.           4         HP         0.00         1685.08         0.00         1921.77         0.00         1805.           5         J&K         0.00         313.23         0.00         304.79         0.00         299.           6         Punjab         0.00         1159.29         0.00         1474.20         0.00         1316.           7         Rajasthan         4053.85         1542.72         4583.59         2016.65         4281.40         0.00         1096.           8         Uttar Pradesh         0.00         3140.70         0.00         3201.49         0.00         1096.           9         Uttarakhand         0.00         664.38         0.00         703.42         0.00         696.           10         NTPC (Dadri, Faridabad & Unchahar)         0.00         22.90         0.00         42.41         0.00         31.           11         Oil India Ltd         117.78         9.14         183.77         9.90         154.66         <	110.		Wind		Wind			Other RE Sources
3         Haryana         0.00         470.69         0.00         1343.15         0.00         363.           4         HP         0.00         1685.08         0.00         1921.77         0.00         1805.           5         J & K         0.00         313.23         0.00         304.79         0.00         299.           6         Punjab         0.00         1159.29         0.00         1474.20         0.00         1316.           7         Rajasthan         4053.85         1542.72         4583.59         2016.65         4281.40         1628.           8         Uttar Pradesh         0.00         3140.70         0.00         3201.49         0.00         1096.           9         Uttarakhand         0.00         664.38         0.00         703.42         0.00         696.           10         NTPC (Dadri; Faridabad & Unchahar)         0.00         22.90         0.00         42.41         0.00         30.           11         Oil India Ltd         117.78         9.14         183.77         9.90         154.66         15.           12         Chhattisgarh         0.00         1066.29         0.00         1202.42         0.00         923	1	Chandigarh	0.00	2.23	0.00	3.40	0.00	13.65
4         HP         0.00         1685.08         0.00         1921.77         0.00         1805.           5         J & K         0.00         313.23         0.00         304.79         0.00         299.           6         Punjab         0.00         1159.29         0.00         1474.20         0.00         1316.           7         Rajasthan         4053.85         1542.72         4583.59         2016.65         4281.40         1628.           8         Uttar Pradesh         0.00         3140.70         0.00         3201.49         0.00         1096.           9         Uttarakhand         0.00         664.38         0.00         703.42         0.00         696.           10         NTPC (Dadri, Faridabad & Unchahar)         0.00         22.90         0.00         42.41         0.00         31.           11         Oil India Ltd         117.78         9.14         183.77         9.90         154.66         15.           12         Chhattisgarh         0.00         1066.29         0.00         1202.42         0.00         923.           13         NTPC (Rajgarh)         0.00         62.94         0.00         81.00         0.00         53	2	Delhi	0.00	116.63	0.00	128.97	0.00	95.15
5         J & K         0.00         313.23         0.00         304.79         0.00         299           6         Punjab         0.00         1159.29         0.00         1474.20         0.00         1316           7         Rajasthan         4053.85         1542.72         4583.59         2016.65         4281.40         1628.           8         Uttar Pradesh         0.00         3140.70         0.00         3201.49         0.00         1096.           9         Uttarakhand         0.00         664.38         0.00         703.42         0.00         696.           10         NTPC (Dadri, Faridabad & Unchahar)         0.00         22.90         0.00         42.41         0.00         31.           11         Oil India Ltd         117.78         9.14         183.77         9.90         154.66         15.           12         Chhattisgarh         0.00         1066.29         0.00         81.00         0.00         923.           13         NTPC (Rajgarh)         0.00         62.94         0.00         81.00         0.00         53.           14         Gujarat         5660.09         1562.18         6446.58         1557.15         5612.13	3	Haryana	0.00	470.69	0.00	1343.15	0.00	363.45
6         Punjab         0.00         1159.29         0.00         1474.20         0.00         1316.           7         Rajasthan         4053.85         1542.72         4583.59         2016.65         4281.40         1628.           8         Uttar Pradesh         0.00         3140.70         0.00         3201.49         0.00         1096.           9         Uttarakhand         0.00         664.38         0.00         703.42         0.00         696.           10         NTPC (Dadri, Faridabad & Unchahar)         0.00         22.90         0.00         42.41         0.00         31.           11         Oil India Ltd         117.78         9.14         183.77         9.90         154.66         15.           12         Chhattisgarh         0.00         1666.29         0.00         81.00         0.00         923.           13         NTPC (Rajgarh)         0.00         660.99         1562.18         6446.58         1557.15         5612.13         1127.           14         Gujarat         5660.09         1562.18         6446.58         1557.15         5612.13         1127.           16         Maharashtra         6804.80         3479.13         6121.34 <td>4</td> <td>HP</td> <td>0.00</td> <td>1685.08</td> <td>0.00</td> <td>1921.77</td> <td>0.00</td> <td>1805.89</td>	4	HP	0.00	1685.08	0.00	1921.77	0.00	1805.89
7         Rajasthan         4053.85         1542.72         4583.59         2016.65         4281.40         1628.           8         Uttar Pradesh         0.00         3140.70         0.00         3201.49         0.00         1096.           9         Uttarakhand         0.00         664.38         0.00         703.42         0.00         696.           10         NTPC (Dadri, Faridabad & Unchahar)         0.00         22.90         0.00         42.41         0.00         31.           11         Oil India Ltd         117.78         9.14         183.77         9.90         154.66         15.           12         Chhattisgarh         0.00         1066.29         0.00         1202.42         0.00         923.           13         NTPC (Rajgarh)         0.00         62.94         0.00         81.00         0.00         53.           14         Gujarat         5660.09         1562.18         6446.58         1557.15         5612.13         1127.           15         Madhya Pradesh         592.25         835.26         1558.43         1351.99         2699.95         1279.           16         Maharashtra         6804.80         3479.13         6121.34         4635	5	J & K	0.00	313.23	0.00	304.79	0.00	299.61
8         Uttar Pradesh         0.00         3140.70         0.00         3201.49         0.00         1096           9         Uttarakhand         0.00         664.38         0.00         703.42         0.00         696           10         NTPC (Dadri, Faridabad & Unchahar)         0.00         22.90         0.00         42.41         0.00         31.           11         Oil India Ltd         117.78         9.14         183.77         9.90         154.66         15.           12         Chhattisgarh         0.00         1066.29         0.00         1202.42         0.00         923           13         NTPC (Rajgarh)         0.00         62.94         0.00         81.00         0.00         53.           14         Gujarat         5660.09         1562.18         6446.58         1557.15         5612.13         1127           15         Madhya Pradesh         592.25         835.26         1558.43         1351.99         2699.95         1279           16         Maharashtra         6804.80         3479.13         6121.34         4635.24         6402.81         1906           17         Dadra and Nagar         0.00         0.03         0.00         0.50	6	Punjab	0.00	1159.29	0.00	1474.20	0.00	1316.86
9         Uttarakhand         0.00         664.38         0.00         703.42         0.00         696.           10         NTPC (Dadri, Faridabad & Unchahar)         0.00         22.90         0.00         42.41         0.00         31.           11         Oil India Ltd         117.78         9.14         183.77         9.90         154.66         15.           12         Chhattisgarh         0.00         1066.29         0.00         1202.42         0.00         923.           13         NTPC (Rajgarh)         0.00         62.94         0.00         81.00         0.00         53.           14         Gujarat         5660.09         1562.18         6446.58         1557.15         5612.13         1127.           15         Madhya Pradesh         592.25         835.26         1558.43         1351.99         2699.95         1279.           16         Maharashtra         6804.80         3479.13         6121.34         4635.24         6402.81         1906.           17         Dadra and Nagar         0.00         0.03         0.00         0.50         0.00         0.00           18         Daman & Diu         0.00         0.15         0.00         4.25	7	Rajasthan	4053.85	1542.72	4583.59	2016.65	4281.40	1628.19
NTPC (Dadri, Faridabad & Unchahar)	8	Uttar Pradesh	0.00	3140.70	0.00	3201.49	0.00	1096.49
Faridabad & Unchahar)	9	Uttarakhand	0.00	664.38	0.00	703.42	0.00	696.45
Chhattisgarh   0.00   1066.29   0.00   1202.42   0.00   923.	10	` '	0.00	22.90	0.00	42.41	0.00	31.66
NTPC (Rajgarh)   0.00   62.94   0.00   81.00   0.00   53.	11	Oil India Ltd	117.78	9.14	183.77	9.90	154.66	15.33
14         Gujarat         5660.09         1562.18         6446.58         1557.15         5612.13         1127.           15         Madhya Pradesh         592.25         835.26         1558.43         1351.99         2699.95         1279.           16         Maharashtra         6804.80         3479.13         6121.34         4635.24         6402.81         1906.           17         Dadra and Nagar Haveli         0.00         0.03         0.00         0.50         0.00         0.0           18         Daman & Diu         0.00         0.15         0.00         4.25         0.00         7.           19         Andhra Pradesh         1675.82         1035.24         2013.04         1093.57         2385.12         1322.           20         Telangana         0.00         802.86         0.00         1027.90         146.89         944.           21         Karnataka         4658.10         5036.80         4797.95         5263.08         4710.48         2321.           22         Kerala         58.40         571.24         51.45         567.33         60.32         406.           23         NTPC (Ramagundam)         0.00         15.62         0.00         16.02 <td>12</td> <td>Chhattisgarh</td> <td>0.00</td> <td>1066.29</td> <td>0.00</td> <td>1202.42</td> <td>0.00</td> <td>923.18</td>	12	Chhattisgarh	0.00	1066.29	0.00	1202.42	0.00	923.18
15         Madhya Pradesh         592.25         835.26         1558.43         1351.99         2699.95         1279.00           16         Maharashtra         6804.80         3479.13         6121.34         4635.24         6402.81         1906.00           17         Dadra and Nagar Haveli         0.00         0.03         0.00         0.50         0.00         0.00           18         Daman & Diu         0.00         0.15         0.00         4.25         0.00         7.00           19         Andhra Pradesh         1675.82         1035.24         2013.04         1093.57         2385.12         1322.00           20         Telangana         0.00         802.86         0.00         1027.90         146.89         944.00           21         Karnataka         4658.10         5036.80         4797.95         5263.08         4710.48         2321.00           22         Kerala         58.40         571.24         51.45         567.33         60.32         406.00           23         NTPC (Ramagundam)         0.00         15.62         0.00         16.02         0.00         195.00           24         Tamil Nadu         10147.06         1755.33         7273.23	13	NTPC (Rajgarh)	0.00	62.94	0.00	81.00	0.00	53.14
16         Maharashtra         6804.80         3479.13         6121.34         4635.24         6402.81         1906.           17         Dadra and Nagar Haveli         0.00         0.03         0.00         0.50         0.00         0.01           18         Daman & Diu         0.00         0.15         0.00         4.25         0.00         7.           19         Andhra Pradesh         1675.82         1035.24         2013.04         1093.57         2385.12         1322.           20         Telangana         0.00         802.86         0.00         1027.90         146.89         944.           21         Karnataka         4658.10         5036.80         4797.95         5263.08         4710.48         2321.           22         Kerala         58.40         571.24         51.45         567.33         60.32         406.           23         NTPC (Ramagundam)         0.00         15.62         0.00         16.02         0.00         195.           24         Tamil Nadu         10147.06         1755.33         7273.23         2058.24         10617.82         2153.           25         Lakshadweep         0.00         0.47         0.00         18.72	14	Gujarat	5660.09	1562.18	6446.58	1557.15	5612.13	1127.45
17         Dadra and Nagar Haveli         0.00         0.03         0.00         0.50         0.00         0.01         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         7.00         0.00         7.00<	15	Madhya Pradesh	592.25	835.26	1558.43	1351.99	2699.95	1279.84
Haveli         0.00         0.15         0.00         4.25         0.00         7.           19         Andhra Pradesh         1675.82         1035.24         2013.04         1093.57         2385.12         1322.02           20         Telangana         0.00         802.86         0.00         1027.90         146.89         944.           21         Karnataka         4658.10         5036.80         4797.95         5263.08         4710.48         2321.           22         Kerala         58.40         571.24         51.45         567.33         60.32         406.           23         NTPC (Ramagundam)         0.00         15.62         0.00         16.02         0.00         195.           24         Tamil Nadu         10147.06         1755.33         7273.23         2058.24         10617.82         2153.           25         Lakshadweep         0.00         46.09         0.00         1.02         0.00         0.           26         Andaman Nicobar         0.00         0.47         0.00         18.72         0.00         13.           27         Bihar         0.00         209.13         0.00         19.77         0.00         25.      <	16	Maharashtra	6804.80	3479.13	6121.34	4635.24	6402.81	1906.83
19         Andhra Pradesh         1675.82         1035.24         2013.04         1093.57         2385.12         1322.           20         Telangana         0.00         802.86         0.00         1027.90         146.89         944.           21         Karnataka         4658.10         5036.80         4797.95         5263.08         4710.48         2321.           22         Kerala         58.40         571.24         51.45         567.33         60.32         406.           23         NTPC (Ramagundam)         0.00         15.62         0.00         16.02         0.00         195.           24         Tamil Nadu         10147.06         1755.33         7273.23         2058.24         10617.82         2153.           25         Lakshadweep         0.00         46.09         0.00         1.02         0.00         0.           26         Andaman Nicobar         0.00         0.47         0.00         18.72         0.00         13.           27         Bihar         0.00         209.13         0.00         165.11         0.00         25.           29         Odisha         0.00         329.82         0.00         434.45         0.00	17		0.00	0.03	0.00	0.50	0.00	0.85
20         Telangana         0.00         802.86         0.00         1027.90         146.89         944.           21         Karnataka         4658.10         5036.80         4797.95         5263.08         4710.48         2321.           22         Kerala         58.40         571.24         51.45         567.33         60.32         406.           23         NTPC (Ramagundam)         0.00         15.62         0.00         16.02         0.00         195.           24         Tamil Nadu         10147.06         1755.33         7273.23         2058.24         10617.82         2153.           25         Lakshadweep         0.00         46.09         0.00         1.02         0.00         0.           26         Andaman Nicobar         0.00         0.47         0.00         18.72         0.00         13           27         Bihar         0.00         209.13         0.00         165.11         0.00         112           28         Jharkhand         0.00         8.32         0.00         434.45         0.00         38           30         Sikkim         0.00         20.88         0.00         41.93         0.00         29 <t< td=""><td>18</td><td>Daman &amp; Diu</td><td>0.00</td><td>0.15</td><td>0.00</td><td>4.25</td><td>0.00</td><td>7.78</td></t<>	18	Daman & Diu	0.00	0.15	0.00	4.25	0.00	7.78
21         Karnataka         4658.10         5036.80         4797.95         5263.08         4710.48         2321.           22         Kerala         58.40         571.24         51.45         567.33         60.32         406.           23         NTPC (Ramagundam )         0.00         15.62         0.00         16.02         0.00         195.           24         Tamil Nadu         10147.06         1755.33         7273.23         2058.24         10617.82         2153.           25         Lakshadweep         0.00         46.09         0.00         1.02         0.00         0.           26         Andaman Nicobar         0.00         0.47         0.00         18.72         0.00         13.           27         Bihar         0.00         209.13         0.00         165.11         0.00         112.           28         Jharkhand         0.00         8.32         0.00         19.77         0.00         25.           29         Odisha         0.00         329.82         0.00         434.45         0.00         380           30         Sikkim         0.00         20.88         0.00         41.93         0.00         29.	19	Andhra Pradesh	1675.82	1035.24	2013.04	1093.57	2385.12	1322.01
22         Kerala         58.40         571.24         51.45         567.33         60.32         406.           23         NTPC (Ramagundam)         0.00         15.62         0.00         16.02         0.00         195.           24         Tamil Nadu         10147.06         1755.33         7273.23         2058.24         10617.82         2153.           25         Lakshadweep         0.00         46.09         0.00         1.02         0.00         0.           26         Andaman Nicobar         0.00         0.47         0.00         18.72         0.00         13.           27         Bihar         0.00         209.13         0.00         165.11         0.00         112.           28         Jharkhand         0.00         8.32         0.00         19.77         0.00         25.           29         Odisha         0.00         329.82         0.00         434.45         0.00         380           30         Sikkim         0.00         20.88         0.00         41.93         0.00         29.           31         West Bengal         0.16         1553.47         0.00         1608.15         0.00         1041.	20	Telangana	0.00	802.86	0.00	1027.90	146.89	944.61
23         NTPC (Ramagundam )         0.00         15.62         0.00         16.02         0.00         195.           24         Tamil Nadu         10147.06         1755.33         7273.23         2058.24         10617.82         2153.           25         Lakshadweep         0.00         46.09         0.00         1.02         0.00         0.0           26         Andaman Nicobar         0.00         0.47         0.00         18.72         0.00         13.           27         Bihar         0.00         209.13         0.00         165.11         0.00         112.           28         Jharkhand         0.00         8.32         0.00         19.77         0.00         25.           29         Odisha         0.00         329.82         0.00         434.45         0.00         380           30         Sikkim         0.00         20.88         0.00         41.93         0.00         29.           31         West Bengal         0.16         1553.47         0.00         1608.15         0.00         1041.	21	Karnataka	4658.10	5036.80	4797.95	5263.08	4710.48	2321.85
24         Tamil Nadu         10147.06         1755.33         7273.23         2058.24         10617.82         2153.           25         Lakshadweep         0.00         46.09         0.00         1.02         0.00         0.           26         Andaman Nicobar         0.00         0.47         0.00         18.72         0.00         13.           27         Bihar         0.00         209.13         0.00         165.11         0.00         112.           28         Jharkhand         0.00         8.32         0.00         19.77         0.00         25.           29         Odisha         0.00         329.82         0.00         434.45         0.00         386.           30         Sikkim         0.00         20.88         0.00         41.93         0.00         29.           31         West Bengal         0.16         1553.47         0.00         1608.15         0.00         1041.	22	Kerala	58.40	571.24	51.45	567.33	60.32	406.15
25         Lakshadweep         0.00         46.09         0.00         1.02         0.00         0.00           26         Andaman Nicobar         0.00         0.47         0.00         18.72         0.00         13.           27         Bihar         0.00         209.13         0.00         165.11         0.00         112.           28         Jharkhand         0.00         8.32         0.00         19.77         0.00         25.           29         Odisha         0.00         329.82         0.00         434.45         0.00         380           30         Sikkim         0.00         20.88         0.00         41.93         0.00         29.           31         West Bengal         0.16         1553.47         0.00         1608.15         0.00         1041.	23	NTPC (Ramagundam )	0.00	15.62	0.00	16.02	0.00	195.33
26         Andaman Nicobar         0.00         0.47         0.00         18.72         0.00         13.           27         Bihar         0.00         209.13         0.00         165.11         0.00         112.           28         Jharkhand         0.00         8.32         0.00         19.77         0.00         25.           29         Odisha         0.00         329.82         0.00         434.45         0.00         386           30         Sikkim         0.00         20.88         0.00         41.93         0.00         29.           31         West Bengal         0.16         1553.47         0.00         1608.15         0.00         1041.	24	Tamil Nadu	10147.06	1755.33	7273.23	2058.24	10617.82	2153.61
27       Bihar       0.00       209.13       0.00       165.11       0.00       112.         28       Jharkhand       0.00       8.32       0.00       19.77       0.00       25.         29       Odisha       0.00       329.82       0.00       434.45       0.00       380         30       Sikkim       0.00       20.88       0.00       41.93       0.00       29.         31       West Bengal       0.16       1553.47       0.00       1608.15       0.00       1041.	25	Lakshadweep	0.00	46.09	0.00	1.02	0.00	0.76
28         Jharkhand         0.00         8.32         0.00         19.77         0.00         25.           29         Odisha         0.00         329.82         0.00         434.45         0.00         386           30         Sikkim         0.00         20.88         0.00         41.93         0.00         29.           31         West Bengal         0.16         1553.47         0.00         1608.15         0.00         1041.	26	Andaman Nicobar	0.00	0.47	0.00	18.72	0.00	13.61
29     Odisha     0.00     329.82     0.00     434.45     0.00     386       30     Sikkim     0.00     20.88     0.00     41.93     0.00     29.       31     West Bengal     0.16     1553.47     0.00     1608.15     0.00     1041.	27	Bihar	0.00	209.13	0.00	165.11	0.00	112.89
30         Sikkim         0.00         20.88         0.00         41.93         0.00         29.           31         West Bengal         0.16         1553.47         0.00         1608.15         0.00         1041.	28	Jharkhand	0.00	8.32	0.00	19.77	0.00	25.39
31 West Bengal 0.16 1553.47 0.00 1608.15 0.00 1041.	29	Odisha	0.00	329.82	0.00	434.45	0.00	386.3
	30	Sikkim	0.00	20.88	0.00	41.93	0.00	29.53
32 DVC 0.00 146.86 0.00 118.26 0.00 107.	31	West Bengal	0.16	1553.47	0.00	1608.15	0.00	1041.19
	32	DVC	0.00	146.86	0.00	118.26	0.00	107.14

33	NTPC (Andman &	0.00	18.79	0.00	18.91	0.00	13.12
	Talcher)						
34	Arunachal Pradesh	0.00	51.94	0.00	18.44	0.00	13.44
35	Assam	0.00	64.52	0.00	90.94	0.00	151.22
36	Manipur	0.00	0.00	0.00	0.00	0.00	0
37	Meghalaya	0.00	66.94	0.00	65.96	0.00	49.62
38	Mizoram	0.00	34.86	0.00	27.62	0.00	36.19
39	Nagaland	0.00	84.14	0.00	88.73	0.00	77.57
40	Tripura	0.00	29.37	0.00	18.47	0.00	29.33
41	NEEPCO	0.00	0.98	0.00	6.15	0.00	4.32
	Total	33768.30	28016.63	33029.39	32751.46	37071.57	22096.98

Note 1) All figures are tentative
2) Data as received from SLDC of the respective states of from the electricity department