

**GOVERNMENT OF INDIA  
MINISTRY OF POWER  
LOK SABHA  
UNSTARRED QUESTION NO.3660  
ANSWERED ON 10.08.2023**

**GREEN ENERGY FOR POWER SUPPLY**

**3660. SHRI JAMYANG TSERING NAMGYAL:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether the Government has provided electricity to all the parts of the country including islands, hilly areas and forest residents and if so, the details thereof;**
- (b) whether the Government has alternative power generation system in case of emergency situations such as floods/shortages of existing resources and if so, the details thereof;**
- (c) whether the Government has taken action to generate Green Energy for power supply and if so, the details thereof and if not, the reasons therefor; and**
- (d) the details of Green energy supply in UT of Ladakh?**

**A N S W E R**

**THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY**

**(SHRI R.K. SINGH)**

**(a) : Government of India launched Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), in December, 2014 for strengthening the distribution systems including separation of agriculture and non-agriculture feeders, strengthening and augmentation of sub-transmission & distribution infrastructure, metering of distribution transformers/feeders/consumers and electrification of villages across the country. As reported by the States/UTs, all the inhabited un-electrified villages as per Census, 2011 stood electrified by 28th April, 2018 across the country under DDUGJY. A total of 18,374 villages were electrified under the scheme. The scheme stands closed as on 31-03-2022. The State/UT-wise details of villages electrified under DDUGJY are as per Annexure-I.**

Moreover, Pradhan Mantri Sahaj Bijli Har Ghar Yojana – SAUBHAGYA was launched by Government of India in October, 2017 with the objective of achieving universal household electrification, by providing electricity connections to all un-electrified households in rural areas and all poor households in urban areas in the country. Under the aegis of SAUBHAGYA, a total of 2.86 crore households have been electrified. The scheme stands closed on 31.03.2022. The State-wise details of Household electrification in the Country under SAUBHAGYA are as per Annexure-II.

(b) : Presently, the power system of the country is running as a single synchronous grid. Hence, in case of any emergency situation in any part of the country, the power can be extended from the healthy part of the remaining grid. Further, in case of flood/cyclone affecting any generating station or transmission lines in any part of the country due to tower collapse / bending, Emergency Restoration System (ERS) towers are being used as a temporary measure to ensure continuous supply of power to the affected area(s) from the healthy part of the grid.

As on date, total all India installed capacity is around 422 Gigawatt whereas all India peak demand has so far touched a maximum of 223 Gigawatt. The country has adequate capacity to meet the electricity demand without any shortage. Details of state-wise installed capacity are attached as Annexure-III.

(c) : Ministry of New and Renewable Energy (MNRE) has taken various steps for enhancing the renewable energy capacity in the country, namely, Grid Connected Rooftop Solar Scheme, Central Public Sector Undertaking (CPSU) Scheme Phase-II (Government Producer Scheme) for grid-connected Solar Photovoltaic (PV) Power Projects by the Government Producers, Production Linked Incentive (PLI) Scheme ‘National Programme on High Efficiency Solar PV Modules’, Solar Park Scheme, PM-KUSUM scheme, Green Energy Corridor Scheme, Biomass Programme, Waste to Energy Programme, Biogas Programme, Research and Development (R&D) programme, and Incentive Schemes for Green Hydrogen production and Electrolyser Manufacturing.

**(d) : UT of Ladakh has reported that the UT has 45 Megawatt and 44 Megawatt Alchi and Chutuk Hydro Electricity Plant (HEP) of NHPC Ltd. under operation.**

**Following green energy projects are also under development stage in Ladakh, the details are as given below:**

- i. Solar Energy Corporation of India (SECI) Ltd. is developing 50 *Megawatt peak* (MWp) Solar project at Leh under Prime Minister's Development Package (PMDP).**
- ii. Oil and Natural Gas Corporation (ONGC) Ltd. is developing geothermal energy at Puga and Changthang in Ladakh.**
- iii. A 13 Gigawatt Solar Wind hybrid energy park is being developed at pang area of Changthang. SECI and Power Grid are preparing Detailed Project Report (DPR)/ Surveys for energy Park/ transmission system respectively.**

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**ANNEXURE-I****ANNEXURE REFERRED IN REPLY TO PART (a) OF UNSTARRED QUESTION  
NO.3660 ANSWERED IN THE LOK SABHA ON 10.08.2023**

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**State-wise electrification of inhabited census villages under DDUGJY from 2015-  
16 till 28.04.2018**

<b>Sl. No.</b>	<b>State/UT</b>	<b>Number of villages electrified</b>
<b>1</b>	<b>Arunachal Pradesh</b>	<b>1,483</b>
<b>2</b>	<b>Assam</b>	<b>2,732</b>
<b>3</b>	<b>Bihar</b>	<b>2,906</b>
<b>4</b>	<b>Chhattisgarh</b>	<b>1,078</b>
<b>5</b>	<b>Himachal Pradesh</b>	<b>28</b>
<b>6</b>	<b>Jammu &amp; Kashmir</b>	<b>129</b>
<b>7</b>	<b>Jharkhand</b>	<b>2,583</b>
<b>8</b>	<b>Karnataka</b>	<b>39</b>
<b>9</b>	<b>Madhya Pradesh</b>	<b>422</b>
<b>10</b>	<b>Maharashtra</b>	<b>80</b>
<b>11</b>	<b>Manipur</b>	<b>366</b>
<b>12</b>	<b>Meghalaya</b>	<b>1,051</b>
<b>13</b>	<b>Mizoram</b>	<b>54</b>
<b>14</b>	<b>Nagaland</b>	<b>78</b>
<b>15</b>	<b>Odisha</b>	<b>3,281</b>
<b>16</b>	<b>Rajasthan</b>	<b>427</b>
<b>17</b>	<b>Tripura</b>	<b>26</b>
<b>18</b>	<b>Uttar Pradesh</b>	<b>1,498</b>
<b>19</b>	<b>Uttarakhand</b>	<b>91</b>
<b>20</b>	<b>West Bengal</b>	<b>22</b>
<b>Total</b>		<b>18,374</b>

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**ANNEXURE-II****ANNEXURE REFERRED IN REPLY TO PART (a) OF UNSTARRED QUESTION NO.3660 ANSWERED IN THE LOK SABHA ON 10.08.2023**

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<b>State-wise electrification of households since launch of Saubhagya Scheme including Additional Households achievement under DDUGJY</b>							
<b>Sl. No.</b>	<b>State/UT</b>	<b>No. of Households electrified from 11.10.2017 to 31.03.2019 as per Saubhagya Portal</b>	<b>Additional Sanction allowed under Saubhagya</b>		<b>Further Additional Households sanctioned under DDUGJY</b>		<b>Grand Total(A+B)</b>
			<b>No. of Households reported electrified from 01.04.2019 to 31.03.2021</b>	<b>Total HHs electrified as on 31.03.2021 (A)</b>	<b>Households Sanctioned during 2021-22</b>	<b>Households electrified(as on 31.03.2022) (B)</b>	
<b>1</b>	<b>Andhra Pradesh*</b>	<b>181,930</b>	<b>0</b>	<b>181,930</b>			<b>181,930</b>
<b>2</b>	<b>Arunachal Pradesh</b>	<b>47,089</b>	<b>0</b>	<b>47,089</b>	<b>7859</b>	<b>0</b>	<b>47,089</b>
<b>3</b>	<b>Assam</b>	<b>1,745,149</b>	<b>200,000</b>	<b>1,945,149</b>	<b>480249</b>	<b>381507</b>	<b>2,326,656</b>
<b>4</b>	<b>Bihar</b>	<b>3,259,041</b>	<b>0</b>	<b>3,259,041</b>			<b>3,259,041</b>
<b>5</b>	<b>Chhattisgarh</b>	<b>749,397</b>	<b>40,394</b>	<b>789,791</b>	<b>21981</b>	<b>2577</b>	<b>792,368</b>
<b>6</b>	<b>Gujarat*</b>	<b>41,317</b>	<b>0</b>	<b>41,317</b>			<b>41,317</b>
<b>7</b>	<b>Haryana</b>	<b>54,681</b>	<b>0</b>	<b>54,681</b>			<b>54,681</b>
<b>8</b>	<b>Himachal Pradesh</b>	<b>12,891</b>	<b>0</b>	<b>12,891</b>			<b>12,891</b>
<b>9</b>	<b>Jammu &amp; Kashmir</b>	<b>377,045</b>	<b>0</b>	<b>377,045</b>			<b>377,045</b>
<b>10</b>	<b>Jharkhand</b>	<b>1,530,708</b>	<b>200,000</b>	<b>1,730,708</b>			<b>1,730,708</b>
<b>11</b>	<b>Karnataka</b>	<b>356,974</b>	<b>26,824</b>	<b>383,798</b>			<b>383,798</b>
<b>12</b>	<b>Ladakh</b>	<b>10,456</b>	<b>0</b>	<b>10,456</b>			<b>10,456</b>
<b>13</b>	<b>Madhya Pradesh</b>	<b>1,984,264</b>	<b>0</b>	<b>1,984,264</b>	<b>99722</b>	<b>0</b>	<b>1,984,264</b>
<b>14</b>	<b>Maharashtra</b>	<b>1,517,922</b>	<b>0</b>	<b>1,517,922</b>			<b>1,517,922</b>

15	Manipur	102,748	5,367	108,115	21135	0	108,115
16	Meghalaya	199,839	0	199,839	420	401	200,240
17	Mizoram	27,970	0	27,970			27,970
18	Nagaland	132,507	0	132,507	7009	7009	139,516
19	Odisha	2,452,444	0	2,452,444			2,452,444
20	Puducherry*	912	0	912			912
21	Punjab	3,477	0	3,477			3,477
22	Rajasthan	1,862,736	212,786	2,075,522	210843	52206	2,127,728
23	Sikkim	14,900	0	14,900			14,900
24	Tamil Nadu*	2,170	0	2,170			2,170
25	Telangana	515,084	0	515,084			515,084
26	Tripura	139,090	0	139,090			139,090
27	Uttar Pradesh	7,980,568	1,200,003	9,180,571	334652	0	9,180,571
28	Uttarakhand	248,751	0	248,751			248,751
29	West Bengal	732,290	0	732,290			732,290
Total		26,284,350	1,885,374	28,169,724	1,183,870	443,700	28,613,424

\*Electrified prior to Saubhagya and not funded under Saubhagya

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# ANNEXURE-III

## ANNEXURE REFERRED IN REPLY TO PART (b) OF UNSTARRED QUESTION NO.3660 ANSWERED IN THE LOK SABHA ON 10.08.2023

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### Detail of State-wise, fuel-wise Installed Capacity (As on 30.06.2023)

(All values in MW)

Region	State	Mode wise breakup							Grand Total
		Thermal				Nuclear	Renewable		
		Coal	Lignite	Gas	Diesel		Hydro	RES*(MNRE)	
Northern Region	Delhi	3649	0	2115	0	103	723	312	6903
	Haryana	8817	0	582	0	101	2325	1440	13264
	Himachal Pradesh	145	0	0	0	29	3249	1086	4509
	Jammu & Kashmir and Ladakh	577	0	304	0	68	2322	264	3535
	Punjab	8214	0	150	0	197	3818	1891	14271
	Rajasthan	11569	1580	775	0	557	1942	23182	39604
	Uttar Pradesh	20388	0	1030	0	289	3424	4792	29923
	Uttarakhand	602	0	520	0	31	2096	934	4183
	Chandigarh	45	0	15	0	8	102	64	233
	Central - Unallocated	1431	0	291	0	237	751	0	2711
	Total	55437	1580	5781	0	1620	20752	33966	119135
Western Region	Goa	492	0	68	0	34	2	36	632
	Daman & Diu	165	0	43	0	10	0	41	259
	Gujarat	17298	1400	6587	0	797	772	21237	48092
	Madhya Pradesh	15913	0	332	0	382	3224	6125	25975
	Chhattisgarh	12222	0	0	0	92	233	1314	13860
	Maharashtra	25254	0	3513	0	879	3332	12973	45951
	Dadra & Nagar Naveli	422	0	66	0	13	0	5	507
	Central - Unallocated	2835	0	198	0	333	0	0	3366
	Total	74602	1400	10806	0	2540	7563	41730	138641
Southern Region	Andhra Pradesh	11231	189	4067	37	127	1674	9378	26703
	Telangana	9439	61	832	0	149	2480	5135	18095
	Karnataka	9948	486	0	25	698	3632	17552	32341
	Kerala	2059	325	534	160	362	1864	1134	6438
	Tamil Nadu	12754	1959	1027	212	1448	2178	18259	37837
	NLC	0	66	0	0	0	0	0	66
	Puducherry	141	118	33	0	86	0	43	421
	Central - Unallocated	1426	434	0	0	450	0	0	2310
	Total	46997	3640	6492	434	3320	11827	51501	124211

<b>Eastern Region</b>	<b>Bihar</b>	<b>7397</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>110</b>	<b>400</b>	<b>7907</b>
	<b>Jharkhand</b>	<b>2373</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>191</b>	<b>128</b>	<b>2692</b>
	<b>West Bengal</b>	<b>8650</b>	<b>0</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>1396</b>	<b>636</b>	<b>10762</b>
	<b>DVC</b>	<b>3037</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>186</b>	<b>0</b>	<b>3223</b>
	<b>Odisha</b>	<b>5020</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2163</b>	<b>634</b>	<b>7817</b>
	<b>Sikkim</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>633</b>	<b>60</b>	<b>707</b>
	<b>Central - Unallocated</b>	<b>1737</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85</b>	<b>0</b>	<b>1822</b>
	<b>Total</b>	<b>28229</b>	<b>0</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>4764</b>	<b>1857</b>	<b>34930</b>
<b>North-Eastern Region</b>	<b>Assam</b>	<b>403</b>	<b>0</b>	<b>742</b>	<b>0</b>	<b>0</b>	<b>522</b>	<b>192</b>	<b>1858</b>
	<b>Arunachal Pradesh</b>	<b>37</b>	<b>0</b>	<b>47</b>	<b>0</b>	<b>0</b>	<b>545</b>	<b>145</b>	<b>773</b>
	<b>Meghalaya</b>	<b>0</b>	<b>0</b>	<b>110</b>	<b>0</b>	<b>0</b>	<b>417</b>	<b>50</b>	<b>578</b>
	<b>Tripura</b>	<b>0</b>	<b>0</b>	<b>487</b>	<b>0</b>	<b>0</b>	<b>68</b>	<b>34</b>	<b>590</b>
	<b>Manipur</b>	<b>16</b>	<b>0</b>	<b>82</b>	<b>36</b>	<b>0</b>	<b>87</b>	<b>18</b>	<b>238</b>
	<b>Nagaland</b>	<b>32</b>	<b>0</b>	<b>74</b>	<b>0</b>	<b>0</b>	<b>66</b>	<b>36</b>	<b>208</b>
	<b>Mizoram</b>	<b>31</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>98</b>	<b>76</b>	<b>265</b>
	<b>Central - Unallocated</b>	<b>113</b>	<b>0</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>140</b>	<b>0</b>	<b>316</b>
	<b>Total</b>	<b>631</b>	<b>0</b>	<b>1665</b>	<b>36</b>	<b>0</b>	<b>1944</b>	<b>551</b>	<b>4827</b>
<b>Islands</b>	<b>Andaman &amp; Nicobar</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>93</b>	<b>0</b>	<b>0</b>	<b>35</b>	<b>128</b>
	<b>Lakshadweep</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>30</b>
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>38</b>	<b>158</b>
<b>All India</b>		<b>205895</b>	<b>6620</b>	<b>24824</b>	<b>589</b>	<b>7480</b>	<b>46850</b>	<b>129643</b>	<b>421902</b>

**Source: Monthly Installed Capacity Report – Central Electricity Authority**

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