

## **Water**

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**Table 6.1:** Installed Capacity of Power in Jammu & Kashmir (J&K)

<b>Year</b>	<b>Installed Capacity (MWs)</b>
1955-56	11.48
1960-61	12.33
1965-66	27.58
1968-69	40.36
1978-79	174.56
1979-80	208.56
1980-81	208.56
1985-86	208.35
1990-91	285.62
1993-94	362.92
1994-95	390.30
1995-96	391.49
1999-00	502.85
2001-02	502.85
2003-04	502.85
2004-05	502.85
2005-06	502.85
2006-07	502.85
2007-08	503.44
2008-09	504.44
2011-12	759.96
2012-13	759.96

**Source:** Directorate of Economic & Statistics, Govt. of Jammu & Kashmir (Digest of Statistics, 2012-13)

<http://ecostatjk.nic.in/publications/publications.htm> (accessed on 12.07.2015)

**Table 6.2:** Installed Capacity of Power Utilities\* (as on September, 2015)

Ownership/ Sector	Mode wise Breakup							Grand Total
	Thermal				Nuclear	Hydro (Renewal)	RES (MNRE)	
	Coal	Gas	Diesel	Total				
State	0.00	175.00	0.00	175.00	0.00	930.00	106.53	1211.53
Private	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00
Central	329.32	129.14	0.00	458.46	77.00	1025.21	0.00	1560.67
Sub-Total	329.32	304.14	0.00	633.46	77.00	1955.21	156.53	2822.20

\*including allocated shares in Joint & Central sector utilities

**Source:** Central Electricity Authority, Ministry of Power, Govt. of India

[http://www.cea.nic.in/reports/monthly/installedcapacity/2015/installed\\_capacity-09.pdf](http://www.cea.nic.in/reports/monthly/installedcapacity/2015/installed_capacity-09.pdf)  
(accessed on 05.11.2015)

**Table 6.3:** Electricity Generated and Consumed

(in Lakh KWhs)

Year	Generated	Purchased	Total Available	Sold	Revenue (Rs. in Lakh)
1973-74	2355.91	650.00	3005.91	2160.00	305.00
1974-75	3028.30	403.50	3431.80	2608.20	487.24
1980-81	7737.70	2883.40	10621.10	4199.00	1249.19
1985-86	8831.52	5876.59	14708.11	8815.20	2311.22
1990-91	9116.72	18559.31	27676.03	13445.19	3771.61
1995-96	8834.40	24873.00	33707.40	17280.40	4797.20
1999-00	6383.83	43466.90	49850.73	26376.80	15563.32
2001-02	5999.13	49894.80	55893.93	28527.09	26397.62
2003-04	9155.90	62327.00	71482.90	37188.00	34262.00
2004-05	7456.50	65663.50	73120.00	38560.00	38979.00
2005-06	7760.00	71920.00	79680.00	42416.00	43721.00
2006-07	9713.40	82170.00	91883.40	45230.00	45500.00
2007-08	9133.47*	78734.07	87867.54	NA	69324.06
2008-09	9730.65**	78734.07(P)	88464.72(P)	34887.09	NA
2009-10	21010.23	82690.42	103700.65	38330.00	70300.21
2010-11	23100.80	83560.40	106661.20	40410.10	80100.00
2011-12	25803.30	85345.70	111154.00	42670.00	120000.14
2012-13	25199.40	96008.50	121207.9	51629.40	169716.00

NA: Not Available, P = Provisional, \* excludes 33.980 Lakh Kwhs of Baglihar Power Station

\*\*excludes 707.63 (MU) of Baglihar Project and 33.940 (MU)

Intermediate consumption (Baglihat + Axillary consumption) for 2008-09

**Source:** Directorate of Economic & Statistics, Govt. of Jammu & Kashmir (Digest of Statistics, 2012-13)  
<http://ecostatjk.nic.in/publications/publications.htm> (accessed on 12.07.2015)

**Table 6.4:** Central Released under the Command Area Development (CAD) Programme  
(Rs. Lakh)

Total up to end of VIII Plan	Up to IX Plan	Up to X Plan	Total XI Plan	During XII Plan			Cumulative up to 2014-15
				2012-13	2013-14	2014-15	
1881.1	2890.4	4753.7	7758.5	3156.7	2163.3	1520.9	19353.2

**Source:** Ministry of Water Resource, Govt. of India (Water and Related Statistics, 2015)  
<http://www.cwc.gov.in/main/downloads/Water%20&%20Related%20Statistics%202015.pdf>  
 (accessed on 05.07.2015)

**Table 6.5:** Towns and Villages Electrified  
(in No.)

Year	Kashmir Division	Jammu Division	Leh & Kargil Districts	Total
1950-51	12	3	-	15
1955-56	16	17	-	33
1960-61	34	36	-	70
1965-66	312	188	1	501
1968-69	404	382	3	789
1974-75	906	828	8	1742
1979-80	3016	2150	19	5185
1980-81	3170	2373	45	5588
1985-86	3604	4968	104	8676
1990-91	3830	6399	159	10388
1995-96	3992	7330	222	11544
1999-00	4901	8024	245	13170
2001-02	5099	8470	245	13814
2002-03	3344	9016	245	12605
2003-04	3676	9237	245	13158
2004-05	3784	9487	279	13550
2007-08	2658	11162	178 (R)	13998
2008-09	2694	11172	181	14047
2010-11	2741	14488	197	17426
2011-12	2745	14518	214	17477
2012-13	2750	14567	230	17547

Note: Figure for Jammu division Harijan Basties decrease in Kashmir Division from 2002-03 is due to inclusion of hamlets in villages.

**Source:** Directorate of Economic & Statistics, Govt. of Jammu & Kashmir (Digest of Statistics, 2012-13)  
<http://ecostatjk.nic.in/publications/publications.htm> (accessed on 12.07.2015)

**Table 6.6:** Electricity sold to Ultimate Consumers (Utilities only)

(in Gwh)

Energy	2008-09	2009-10	2010-11	2011-12	2012-13(P)
Total Sold to Ultimate Consumers	4030.85	3538.71	4041.08	4267	5163.02
Domestic	1399.08	1390.97	1255.93	1431.98	2469.39
Commercial	213.42	236.26	349.10	333.26	321.97
Industrial Power at Low & Medium Voltage	950.06	705.54	816.54	849.53	955.02
Industrial Power at High Voltage	(A)			(A)	(A)
Public Lighting	11.42	11.02	29.07	35.66	37.67
Traction	-	0.0	0.0	0.0	0.0
Agriculture	271.42	204.88	198.10	140.67	296.74
Public Water Works & Sewage Pumping	460.23	406.94	586.04	636.14	481.46
Miscellaneous	725.21	583.10	806.30	839.76	600.77

(A)=Included in Industrial (low and medium voltage)

**Source:** Central Electricity Authority, Ministry of Power, Govt. of India  
<http://www.cea.nic.in> (accessed on 12.09.2015)

**Table 6.7:** Electricity-Installed Capacity, Generation and Consumption (Utilities only)

(Installed Capacity: '000 kw) (Generation: Gwh)

Energy	2008-09	2009-10	2010-11	2011-12	2012-13(P)
<b>Installed Capacity (1)</b>					
Hydro	780	780	780	780	780
Steam	-	0	0	0	0
Diesel and Wind	121	138	138	139	139
Gas	175	175	175	175	175
Nuclear	-	0	0	0	0
Total	1076	1093	1093	1094	1094
<b>Electricity Generated (gross)</b>					
Hydro	1836	3526	3899	3981	3986
Steam	-	0	0	0	0
<b>Electricity Generated (gross)</b>					
Diesel and Wind	394	449	362	365	365
Gas	-	13	14	5	0
Nuclear	-	0	0	0	0
Total	2230	3988	4275	4352	4351
<b>Consumption in Power Station Auxiliaries</b>					
Consumption in power station auxiliaries	18	21	22	23	22
<b>Electricity Generated (net)</b>					
Electricity generated (net)	2212	3967	4253	4329	4329
<b>Consumption*</b>					
Consumption*	4030.9	3538.7	4041.1	4267.0	
<b>Utilities/Non Utilities Per Capita Consumption (Kwh)</b>					
Utilities/Non Utilities	894.4	968.5	988.3	1014.9	1043.1
<b>Non Utilities Per Capita Consumption (Kwh)</b>					
Non Utilities	-	-	-	0.3	0.3
Total <sup>@</sup>	894.4	968.5	988.3	1015.2	1043.4

\*relates to sales to ultimate consumers, P- Provisional, @relates to utility and non-utility.

Note: (1) Installed capacities of jointly owned projects have been shown divided between the partner States as per their theoretical shares. 2. Includes the generation of Small Hydro Projects. 3. Totals may not tally due to rounding off figures.

**Source:** Central Electricity Authority, Ministry of Power, Govt. of India  
<http://www.cea.nic.in> (accessed on 12.09.2015)

**Table 6.8:** Installation of Off-Grid/Decentralized Renewable Energy Systems/Devices

Energy	Year			
	2009-10	2010-11	2011-12	2012-13
Biogas Plants (Nos.)	2489	2489	2739	3033
Water Pumping Wind Mills (Nos.)	-	-	-	-
Solar Photovoltaic Pumps (Nos.)	39	39	39	39
<b>Solar Photovoltaic</b>				
Street Lighting System (Nos.)	28672	5596	5806	5806
Home Lighting System (Nos.)	23083	23083	42133	62133
Solar Lanten (Nos.)	5596	28672	43822	44059
Power Plants (KWP)	175.6	225	308.85	308.85
Aerogen. Hybrid System (KW)	-	-	15.80	15.80
Solar Cooker (Nos.)	868	868	-	-
Biomass Gasifiers (Nos.)	-	200	200	200
Waste to Energy (MW)	-	-	-	-
<b>Remote Village</b>				
Villages (Nos.)	167	160	160	334
Hamlets (Nos.)	-	-	-	15

MW = Mega Watt; KWP = Kilowatt peak

**Source:** Central Statistics Office, Ministry of Statistics and Programme Implementation, Govt. of India (Energy Statistics, 2013, 2014); <http://mospi.nic.in> (accessed on 01.07.2015)

**Table 6.9:** Status of Hydropower Potential Development (as on September, 2015)  
(Installed Capacity)

<b>Identified Capacity as per Reassessment Study</b>	
Identified Capacity Total (MW)	14146
Above 25 MW	13543
<b>Capacity under Operation</b>	
Mega Watts	2969.0
Percent	21.92
<b>Capacity under Construction</b>	
Mega Watts	1330.0
Percent	9.82
<b>Capacity under Operation &amp; under Construction</b>	
Mega Watts	4299.0
Percent	31.74
<b>Capacity yet to be Taken up under Construction</b>	
Mega Watts	9244.0
Percent	68.26

**Source:** Central Electricity Authority, Ministry of Power, Govt. of India  
[http://www.cea.nic.in/reports/monthly/hydro/2015/hydro\\_potential\\_region-09.pdf](http://www.cea.nic.in/reports/monthly/hydro/2015/hydro_potential_region-09.pdf)  
(accessed on 05.11.2015)

**Table 6.10:** Large Dams Completed (as on October, 2014)

Total Dams Completed	Under Construction	Total
14	2	16

**Table 6.11:** Live Storage Capacity of Large Dams/Reservoirs/Projects (as on 17 March, 2015)

Total Live Storage Capacity (BCM)		
Completed	Under Construction	Total
0.029	0.0002	0.029

**Table 6.12:** Water Resources Projects Declared as National Projects

Name of the Project	1) Irrigation (ha.) 2) Power (MW) 3) Storage (MAF)	Status	Central Assistance Released (Rs. Crores)
Bursar	1) 1 Lakh (indirect) 2) 1230 MW 3) 1 MAF	DPR under Preparation by NHPC	-
Ujh Multipurpose Project	1) 0.32 Lakh 2) 280 MW 3) 0.66 MAF	DPR Prepared and Appraisal in CWC/CEA	-

MW—Mega Watt, MAF—Million Acre Feet

**Source** (Tables 6.10- 6.12): Central Water Commission, Govt. of India (Water and Related Statistics, 2015) <http://www.cwc.gov.in/main/downloads/Water%20&%20Related%20Statistics%202015.pdf> (accessed on 04.11.2015)



**Table 6.13:** Ultimate Irrigation Potential

(‘000 ha)

Year			2013	2015
<b>Major &amp; Medium Surface Water (B)</b>			250	250
<b>Minor Irrigation</b>	Surface Water	400	150	400
	Ground Water	708	18	708
	<b>Total (A)</b>	1108	168	1108
<b>Total (A+B), (for 2015) (Major, Medium &amp; Minor)</b>			<b>1358</b>	

**Table 6.14:** Plan-wise Financial Expenditure on Major and Medium Irrigation

(Rs. Crores)

<b>Ninth Plan (1997-02)</b>	<b>Tenth Plan (2002-07)</b>	<b>Actual Expenditure (2007-08)</b>	<b>Actual Expenditure (2008-09)</b>	<b>Revised Approved Outlay (2009-10)</b>	<b>Revised Approved Outlay (2010-11)</b>	<b>Actual Expenditure (2011-12)</b>
128.5	262.1	49.9	62.1	118	101.8	68.55

**Table 6.15:** Tube Wells / Pump Sets Energized

District	Number Ending Year												
	1980-81	1985-86	1990-91	1995-96	2001-02	2003-04	2004-05	2005-06	2006-07	2008-09	2010-11	2011-12	2012-13
Srinagar	136	341	343	421	333	333	333	333	333	333	333	333	344
Budgam			53	53	41	41	41	41	41	41	41	41	44
Anantnag	48	83	41	41	46	46	46	46	46	46	46	46	46
Pulwama	63	63	60	60	60	60	60	60	60	60	60	60	60
Baramulla	179	197	207	222	267	267	267	267	267	267	267	267	409
Kupwara			16	16	16	16	16	16	16	16	16	16	29
Jammu	464	559	1527	2996	5801	6175	5605	5605	7051	8662	9525	10496	11273
Udhampur	4	5	5	5	10	12	12	12	12	10	10	10	10
Kathua	180	263	505	975	2094	2213	2213	2280	2387	3646	3678	4188	4815
Doda	-	2	2	2	4	4	4	4	4	4	4	4	4
Rajouri	4	5	5	1	30	60	81	81	81	154	154	154	154
Poonch	-	6	6	6	2	2	2	3	3	-	3	3	3
Samba	-	-	-	-	-	-	-	-	-	-	-	190	265
Leh	-	-	1	1	1	1	1	2	4	8	-	11	12
Kargil	-	-	-	-	-	-	1	1	-	-	-	8	8
Total	1015	1461	2774	4802	8705	9230	8682	8751	10305	13247	14145	15827	17483

**Source:** Directorate of Economic & Statistics, Govt. of Jammu & Kashmir (Digest of Statistics, 2012-13)

<http://ecostatjk.nic.in/publications/publications.htm> (accessed on 05.09.2015)

**Table 6.16:** Plan-wise Financial Expenditure on Flood Management Work

(Rs. Crores)

During X Plan (2002-07)	Upto X Plan (2002-07)	Actual Expenditure (2007-08)	Actual Expenditure (2008-09)	Revised Approved Outlay (2009-10)	Revised Approved Outlay (2010-11)	Actual Expenditure (2011-12)
127.91	372.57	7.23	9.83	26.68	30.33	99.10

**Table 6.17:** List of on-going Projects under the Command Area Development & Water Management (CADWM) Programme during the period of XI<sup>th</sup> Plan (2007-08 to 2011-12) as on March, 2013

Project Name	Districts Benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2013	Reported Balance of Executable CCA
Ego-Phey Canal	Leh	1987-88	3	0.873	2.127
Dachnipora-Rajpora	Anantnag, Pulwama	2007-08	12.526	8.737	3.789
Ahaji Beerua	Budgam	2008-09	8.813	3.95	4.863
Ganderbal	Ganderbal, Srinagar	2011-12	6.892	1.297	5.595
Ranbir Canal	Jammu	2006-07	38.6	32.343	6.257
Dehgam Veernag	Anantnag, Kulgam	2006-07	2.934	2.584	0.35
Tongri Canal	Shopian and Kulgam	2010-11	4.064	1.552	2.512
Zaineger canal (Kashmir CADA)	Baramulla, Bandipora	2003-04	5.1	5.049	0.051
Sonawari	Baramulla and Bandipura	2010-11	20.37	1.752	18.618
Kathua canal Command (Jammu CADA)	Proposed for closure	2003-04	8.463	4.627	3.836
Arin-Bandipora	Bandipora	2007-08	2.86	2.676	0.184

Khemil-Kupwara	Kupwara	2007-08	7.3	3.326	3.974
Doda-Sangaldhan Gool-Rajouri Cluster	Doda, Rajouri, Ramban	2007-08	4.177	4.545	0
Ferozpora Tangmarg Project of Kashmir Command	Baramulla	2009-10	9.644	3.557	6.087
New Partap Canal Project of Jammu Command	Jammu	2010-11	9.028	1.835	7.193
Vaishow Command Project	Pulwama, Ahopian and Kulgam	2011-12	13.738	1.089	12.649
Kargil Projects	Kargil	2011-12	12	0.097	11.903
Uri-Narvaw Project	Baramulla	2011-12	6.77	1.782	4.988

CCA - Cultural Command Area

**Source** (Tables 6.17 & 6.18): Central Water Commission, Govt. of India (Water and Related Statistics, 2015)

<http://www.cwc.gov.in/main/downloads/Water%20&%20Related%20Statistics%202015.pdf>  
(accessed on 14 .11. 2015)