

WATER PROFILE

- 5.1 : Details of Inland Fishery Water Resources of Various Types
- 5.2 : Details of Generation and Consumption of Energy
- 5.3 : Installation of off-Grid/Decentralized Renewable Energy Systems/Devices,
- 5.4 : Status of Hydropower Potential Development
- 5.5 : Electricity Sold to Ultimate Consumers
- 5.6 : Number of Towns and Villages Electrified
- 5.7 : Source wise Installed Capacity of Grid Interactive Renewable Power
- 5.8 : Generation, Sale and Purchase of Electricity
- 5.9 : Ground Water Resources Availability, Utilization and Stage of Development
- 5.10 : Electricity Generated and Consumed
- 5.11 : Irrigation Potential, Flood Control, Ground Water, Distribution of Large Dams and Hydro Potential Status

Table 5.1: Details of Inland Fishery Water Resources of various types

Unit: Lakh Hectares		
Year	2005-06	2007-08
Rivers & Canals (Length in km)	3000	3000
Reservoirs	0.42	0.42
Tanks & Ponds	0.01	0.01
Floodplain Lakes & Derelict Water	-	-

Neg = Negligible

Note: Dash (-) means no entry in the cell

Source: Annual Report 2005-06, Department of Animal Husbandry and Dairying, Ministry of Agriculture, Government of India (For Year 2005 -2006)

Central Water Commission, Ministry of Water Resources, Government of India (For Year 2007 -2008)
http://www.cwc.nic.in/ISO_DATA_Bank/W&RelatedStatistics_2010.pdf

Table 5.2: Year Wise Details of Generation and Consumption of Energy

(Million Unit)				
Item	2010-11	2011-12	2012-13	2013-14 up to Dec.2013*
Energy generated	2045.260	1905.630	1815.480	1690.081
Energy purchased from BBMB (Bhakra Beas Management Board) other states	7381.420	7574.166	7957.290	6215.494
Energy Consumed: Within the State	6641.770	6918.025	7223.520	5723.863
Domestic	1282.500	1407.291	1618.450	1349.129
Non Domestic & Non-Comm.	89.880	98.500	106.820	75.782
Commercial	356.530	387.203	408.730	349.332
Public lighting	12.500	12.984	13.910	8.860
Agriculture	35.100	36.167	46.620	32.255
Industries	4195.160	4314.567	4379.330	3442.931
Govt. Irrigation & Water Supply Scheme	409.900	439.976	453.980	345.992
Temporary Supply	24.600	28.460	25.900	19.174
Bulk & Misc.	235.600	192.877	169.780	100.408
Outside the State	1704.610	1597.440	1171.400	1770.519
Total Consumed	8346.380	8515.465	8394.920	7494.382

Source: State Electricity Board Himachal Pradesh.

Table 5.3: Installation of off-Grid/Decentralized Renewable Energy Systems/Devices

Year	2009-10	2010-11	2011-12	2012-13
Biogas Plants	45716	45716	46587	46949
Water Pumping Wind Mills	-	-	-	-
SPV Pumps	6	6	6	6
Solar Photovoltaic				
SLS (Nos.)	22970	4072	7430	8058
HLS (Nos.)	16840	16848	22586	22592
SL (Nos.)	2994	22970	23909	23909
PP (KWP)	2	2	201.50	601.50
Aerogen. Hybrid System (KW)	-	-	-	-
Solar Cooker (Nos.)	28837	28837	NA	NA
Biomass Gasifiers (Nos.)	-	-	-	-
Waste to Energy (MW)	-	-	-	-
Remote Village				
Villages (Nos.)	1	21	21	21
Hamlets (Nos.)	-	-	-	-

Sources: Energy Statistics 2013, Central Statistics Office

Statistical Year Book, India 2015

Note: SLS = Street Lighting System; HLS = Home Lighting System; SL = Solar Lantern; PP = Power Plants; SPV = Solar Photovoltaic; SHP = Small Hydro Power; MW = Mega Watt; KWP = Kilowatt peak

NA= Data not available

Table 5.4: Status of Hydropower Potential Development

	(Installed Capacity)	
Year	2008	2013
Identified Capacity Mega Watts	18820	18820
Capacity Developed		
Mega Watts	6085.5	7594.00
Percent	32.34	40.96
Capacity under construction		
Mega Watts	4435.0	3732.00
Percent	23.57	20.13
Capacity Development & Under Construction		
Mega Watts	10520.5	11326.00
Percent	55.90	61.09
Capacity yet to be developed		
Mega Watts	8299.6	7214.00
Percent	44.10	38.91

Source: Central Electricity Authority, 2008 (For Year 2008)

http://www.cea.nic.in/archives/hydro/status_hep/mar13.pdf (For Year 2013)

Table 5.5: Electricity Sold to Ultimate Consumers

(Utilities only)

(Gwh)

Year	2008-09	2009-10	2010-11	2011-12	2012-13P
Total sold to ultimate consumers	5460.51	5814.51	6296.21	6843.82	7357.80
Domestic	1089.12	1112.13	1281.96	1399.00	1616.58
Commercial	274.66	422.60	356.53	365.28	410.98
Industrial Power at low & medium voltage	1356.20	1380.63	201.96	57.69	61.48
Industrial Power at high voltage	2050.39	2216.23	3647.79	4238.77	4449.89
Public lighting	13.01	12.50	12.54	12.80	13.91
Traction	0.00	0.00	0.00	0.00	0.00
Agriculture	28.74	36.82	35.14	70.41	74.95
Public water works & sewage pumping	368.05	414.87	409.95	399.82	425.58
Miscellaneous	280.34	218.73	350.34	300.05	304.43

Source: Central Electricity Authority, Ministry of Power
Statistical Year Book, India 2015

Table 5.6: Number of Towns and Villages Electrified

Year	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13P
Number of Towns (2011 Census)	57	57	57	57	57	57
Towns						
Electrified	57	57	57	57	57	57
Percentage	100	100	100	100	100	100
Number of Villages (2011 Census)	17495	17495	17495	17495	17495	17495
Villages						
Electrified	17183	17183	17183	17412	17466	17480
Percentage	98.2	98.2	98.2	99.5	99.8	99.9

Source: Central Electricity Authority, Ministry of Power
Statistical Year Book, India 2015

Table 5.7: Source wise Installed Capacity of Grid Interactive Renewable Power
(In MW)

Year	2010	2011	2012	2013
Biomass Power	-	-	-	-
Waste to Energy	-	-	-	-
Wind Power	-	-	-	-
Small Hydro Power	330.32	393.47	527.66	587.91
Solar Power	-	-	-	-

Sources: Energy Statistics 2014, Central Statistics Office
Statistical Year Book, India 2015

Table 5.8: Generation, Sale and Purchase of Electricity

Year	Installed capacity in H.P. HPSEB (MW)	Total generation in the State (MU)	Purchased from outside (MU)	Sale outside the state (MU)
2005-06	329.1	1332.4	4919.0	1722.5
2006-07	467.1	1432.4	5057.0	1255.3
2007-08	467.1	1864.9	5433.4	1198.6
2008-09	467.1	2075.1	6047.5	1498.2
2009-10	467.1	1804.1	6616.4	1284.0
2010-11	467.1	2045.3	7418.5	1704.6
2011-12	471.45	2019.95	6822.67	627.28
2012-13	471.45	1800.19	7957.29	1179.86

Source: State Electricity Board Himachal Pradesh.

Table 5.9: Ground Water Resources Availability, Utilization and Stage of Development

Category	Monsoon Season	Non-monsoon Season	Total
Annual Replenishable Ground Water Resource			
Recharge from rainfall	0.39	0.10	0.56
Recharge from other sources	0.02	0.05	
Natural Discharge during non monsoon season			0.03
Net Annual Ground Water Availability			0.53
Annual Ground Water Draft			
Irrigation		0.25	0.38
Domestic and industrial uses		0.13	
Projected demand for Domestic and Industrial uses up to 2025			0.13
Ground Water Availability for future irrigation			0.15
Stage of Ground Water Development (%)			71

Source: Dynamic Ground Water Resources of India
<http://cgwb.gov.in/documents/Dynamic%20GW%20Resources%20-2011.pdf>

Table 5.10: Electricity Generated and Consumed

Item	Unit	2011-12	2012-13
Total electricity generated	M.	2019.954	1774.416
Energy Purchased from BBMB & other states	KWh	6822.670	7957.290
Energy Consumed to other state	M.U	627.280	1572.410
Energy Consumed within the state	"	6828.745	6633.045(P)
Domestic	"	1398.744	1578.482
Non Domestic Non Comm.	"	95.908	103.924
Commercial	"	365.008	398.971
Public Lighting	"	12.711	13.602
Agricultural	"	35.468	45.050
Industrial	"	4288.531	3852.340
Govt. irrigation & WSS	"	430.677	447.328
Temporary Supply	"	28.516	23.918
Bulk & Misc.	"	172.094	167.591
Antodaya	"	1.088	1.839
Consumers Served	No.	2027970	2086562
Domestic	"	1714791	1760248
Non Domestic Non Comm.	"	19312	22047
Commercial	"	226911	232614
Public Lighting	"	756	865
Agricultural	"	18190	19940
Industrial	"	34366	34501
Govt. irrigation & WSS	"	4790	5202
Temporary Supply	"	3728	4300
Bulk & Misc.	"	244	190
Antodaya	"	4882	6655

Source: Himachal Pradesh State Electricity Board.

Brief Facts of Himachal Pradesh 2012-13 Economics and Statistics Department Himachal Pradesh

Table 5.11: Irrigation Potential, Flood Control, Ground Water, Distribution of Large Dams and Hydro Potential Status

Category	Major Medium Irrigation	Minor Irrigation	Total
Ultimate Irrigation Potential ('000ha)	50.00	303.00	353.00
Potential created till and of IX Plan ('000ha.)			
Created	13.35	161.00	174.35
Utilised	7.51	138.30	145.81
Irrigation Potential* during X Plan ('000ha.)			
Created	2.10	10.09	12.19
Utilised	0.72	6.47	7.19

Source: Annual Plan Documents by the States and UT's and Working Group Report on Water Resources for XI Plan.

Data book for PC; 22nd December, 2014

Status as on 20.03.2008