

Hydropower Generation Performance in Beas River Basin

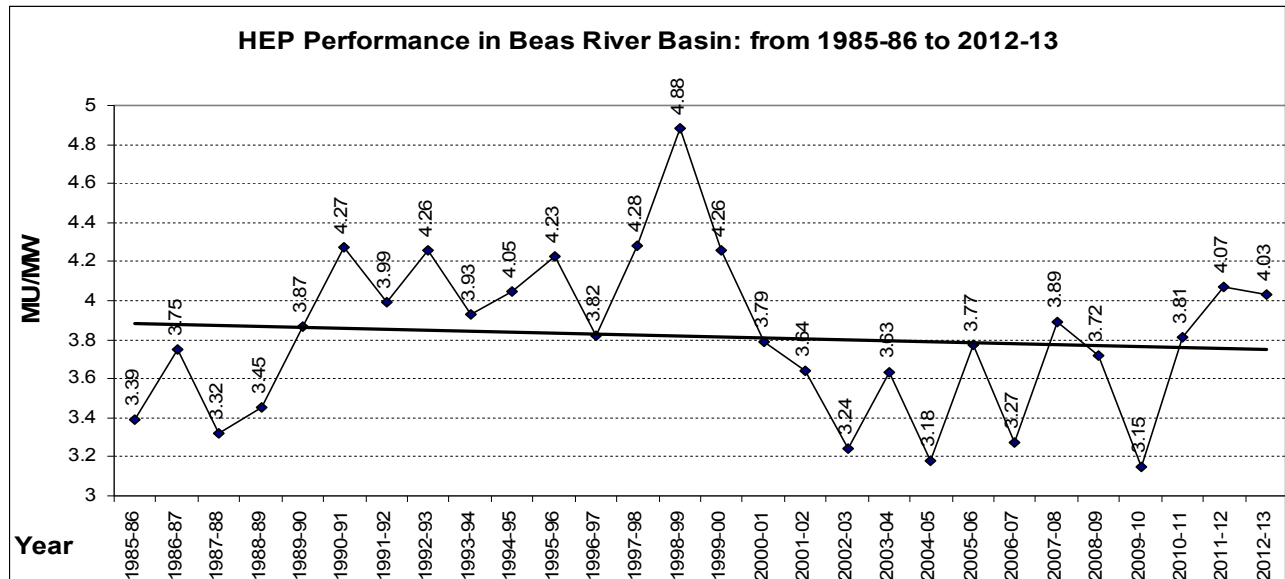
The Beas River Basin is the major part of Indus River Basin. It rises near the Rohtang Pass in Kullu and flows through a gorge from Larji to Talwara and then enters the Punjab plains to meet the Sutlej at Harike. Its total length is 460 km and catchment area is 20,303 sq km.

The project wise generation data of large hydro with installed capacity of the basin in the latest year 2012-13.

SN	Projects	State	Inst Capacity (MW)	Generation (MU)	MU/MW
1	Bassi	Himachal Pradesh	60	246	4.1
2	Dehar	Himachal Pradesh	990	3221	3.25
3	Larji	Himachal Pradesh	126	652	5.17
4	Malana	Himachal Pradesh	86	333	3.87
5	Mukerian	Punjab	207	1420	6.86
6	Pong	Himachal Pradesh	396	1824	4.61
7	Shanan	Punjab	110	436	3.96
8	Allain Duhangan*	Himachal Pradesh	192	681	3.55
9	Malana-II**	Himachal Pradesh	100	312	3.12
	Total		2267	9125	4.03

* The Generation figure of Allain Duhangan is available for two year as it commissioned in the year 2010.

** The Generation figure of Malana-II is available for one year only as it commissioned in the year 2011.



- The above graph shows the trend line of power generation of Big Hydropower projects for last 28 years in the basin, the trend-line shows diminishing generation from existing hydro power projects of Beas River Basin.
- It shows that the per MW generation in 2012-13 (4.03) has dropped by a huge 17.52% from the highest per MW generation (4.88) achieved in the year 1998-99.
- All generation figures have been taken from official data of Central Electricity Authority (CEA).

List of other projects (up to 25 MW) under operation (for which latest generation figures not available):

SN	Project	Ins Cap (MW)	State
1	Binwa	6	Himachal Pradesh
2	Gaj	10.50	Himachal Pradesh
3	Baner	12	Himachal Pradesh
4	Khauri	12	Himachal Pradesh
5	Dehar	5.00	Himachal Pradesh
6	Maujhi	4.50	Himachal Pradesh
7	Raskat	0.80	Himachal Pradesh
8	Baragran	3.00	Himachal Pradesh
9	Aleo	3.00	Himachal Pradesh
10	Marthi	5.00	Himachal Pradesh
	Total	61.8	--

Source: http://www.hpseb.com/hydro_potential.htm

List of proposed and under construction projects in the basin:

	Project	Ins Cap (MW)	State	Status
1	Uhl-III	100	Himachal Pradesh	Under Construction
2	Sainj	100	Himachal Pradesh	Under Construction
3	Khauri-II	6.60	Himachal Pradesh	Under Construction
4	Parbati-II	800	Himachal Pradesh	Under Construction
5	Parbati-III	520	Himachal Pradesh	Under Construction
6	Patikari	16	Himachal Pradesh	Under Construction
7	Neogal	15	Himachal Pradesh	Under Construction
8	Lambadug	25	Himachal Pradesh	Under Construction
9	Baragaon	11	Himachal Pradesh	Under Construction
10	Fozal	9	Himachal Pradesh	Under Construction
11	Baner-II	6	Himachal Pradesh	Under Construction
12	Parbati-I	750	Himachal Pradesh	Under Construction
13	Kilhi-Balh	7.50	Himachal Pradesh	Under Construction
14	Dhaura-Sidh	66	Himachal Pradesh	Under Construction
15	Thana-Plaun HEP	141	Himachal Pradesh	EAC TOR Approved
16	Triveni Mahadev	78	Himachal Pradesh	EAC TOR Approved
17	Nakthan HEP	520	Himachal Pradesh	EAC TOR Approved
18	Gharopa	99	Himachal Pradesh	Proposed
	Total	3270.1	--	--

EAC: Expert Appraisal Committee of MoEF

Source: http://www.hpseb.com/hydro_potential.htm ; <http://envfor.nic.in>

Map of Hydroelectric Projects in Beas River Basin available at:

http://sandrp.in/basin_maps/Hydropower_Projects_in_Beas_Basin.pdf

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