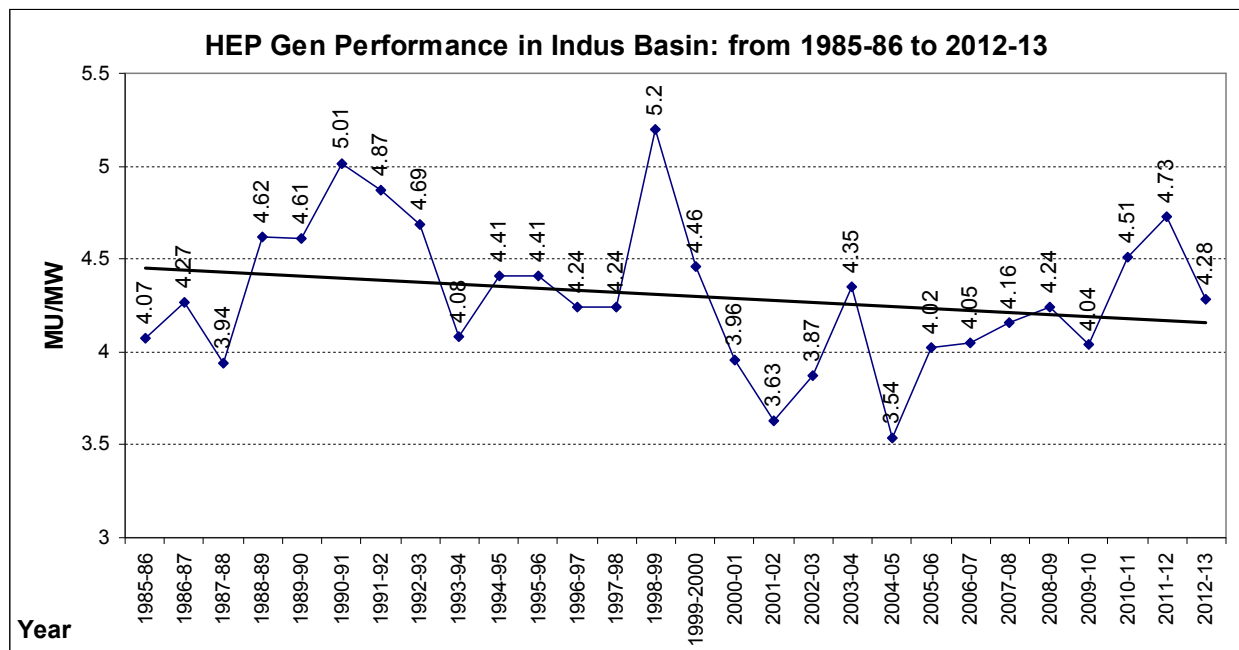


## Hydropower Generation Performance in Indus Basin

The river rises in the southwestern Tibet Autonomous Region of China. Originating in the Tibetan plateau of western China in the vicinity of Lake Mansarovar in Tibet Autonomous Region, the river runs a course through the Ladakh district of Jammu and Kashmir and then enters Pakistan via the Northern Areas (Gilgit-Baltistan), flowing through the North in a southerly direction along the entire length of Pakistan, to merge into the Arabian Sea near the port city of Karachi in Sindh.

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

Projects	Inst Capacity (MW)	Generation (MU)	MU/MW
Sutlej	4534.3	18979	4.19
Beas	2267	9125	4.03
Ravi	2059	7383	3.59
Chenab	1530	8159	5.33
Jhelum	690	3828	5.55
<b>Total</b>	<b>11080.3</b>	<b>47474</b>	<b>4.28</b>



- 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 Indus River Basin.
- It shows that the per MW generation in 2012-13 (4.28) has dropped by a huge 17.69% from the highest per MW generation (5.2) achieved in the year 1988-89.
- 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
<b>In main basin</b>			
1	Iqbal	3.75	Jammu & Kashmir
2	Hunder	0.40	Jammu & Kashmir
3	Sumoor	0.10	Jammu & Kashmir
4	Igo-Mercellong	3	Jammu & Kashmir
5	Haftal	1	Jammu & Kashmir
6	Marpachoo	0.75	Jammu & Kashmir
7	Bazgo	0.30	Jammu & Kashmir
8	Stakna	4	Jammu & Kashmir
<b>Total</b>		<b>13.30</b>	
<b>In Sub Basins</b>			
1	Sutlej	31.55	Himachal Pradesh
2	Beas	61.8	Himachal Pradesh
3	Ravi	110.6	HP, J&K and Punjab
4	Chenab	33.8	Jammu & Kashmir
5	Jhelum	51.6	Jammu & Kashmir
<b>Grand Total</b>		<b>302.65</b>	

Source: [http://www.hpseb.com/hydro\\_potential.htm](http://www.hpseb.com/hydro_potential.htm)  
<http://jkspdc.nic.in/exist.htm>

List of proposed and under construction projects in the basin:

	Project	Ins Cap (MW)	State	Status
<b>In Main Basin</b>				
1	Rongdo	9		Proposed IPP Project
2	Bairaas	9		Proposed IPP Project
3	Tamasha	9		Proposed IPP Project
<b>Total</b>		<b>27</b>		
<b>In Sub Basins</b>				
1	Sutlej	6055	Himachal Pradesh	--
2	Beas	3270.1	Himachal Pradesh	--
3	Ravi	1292	HP, J&K	--
4	Chenab	8225	HP, J&K	--
5	Jhelum	864.55	Jammu & Kashmir	--
<b>Grand Total</b>		<b>19733.65</b>	--	--

Source: <http://jkspdc.nic.in/up.htm>  
[http://www.hpseb.com/hydro\\_potential.htm](http://www.hpseb.com/hydro_potential.htm)  
<http://envfor.nic.in>

Map of Hydroelectric Projects in Indus River Basin available at:

[http://sandrp.in/basin\\_maps/Hydropower\\_Projects\\_in\\_Indus\\_Basin.pdf](http://sandrp.in/basin_maps/Hydropower_Projects_in_Indus_Basin.pdf)

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