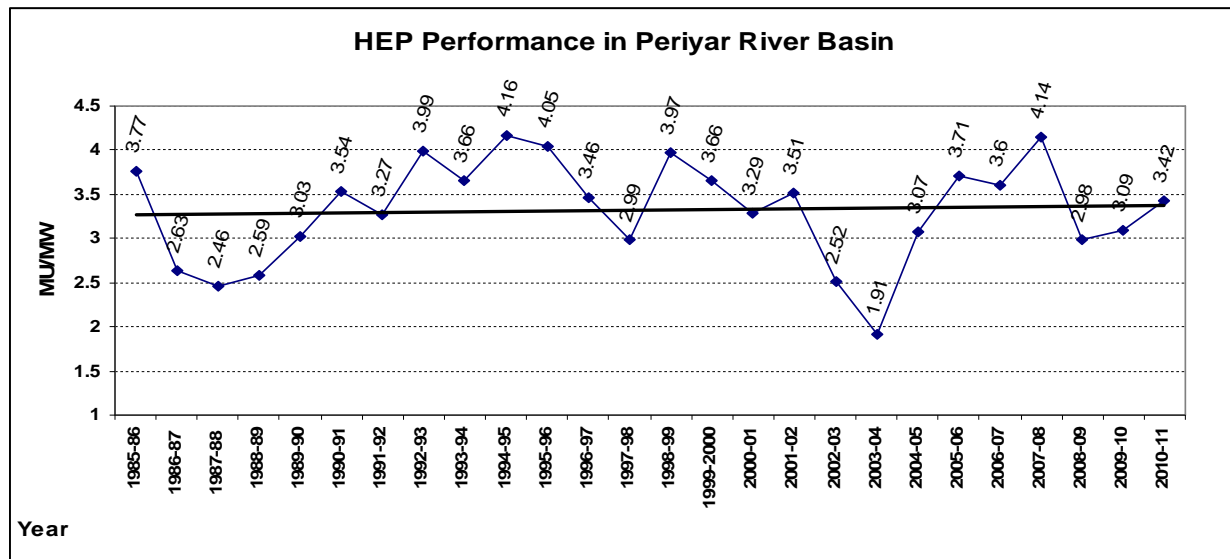


Hydropower Generation Performance in Periyar Basin

It originates from the Sivagiri peaks of Sundaramala in Kerala. It flows northwards for 48 kms and at Thekkady joins the west-flowing Mullayar, which is a tributary of the Periyar. From Periyar Thekkady Reservoir, the Periyar river flows northwestward for 35 kms through Vandiperiyar, Elappara and Aiyappankoil to join the Idukki reservoir formed by the Idukki, Cheruthoni and Kulamavu dams. From Idukki reservoir, Periyar river flows northwestwards and then westward to join the Arabian sea at Munambam near Kodungallur and the Vembanad lake at Kochi. The project wise generation data of large hydro with installed capacity of the basin in the latest year 2010-11.

Projects	Inst Capacity (MW)	Generation (MU)	MU/MW
Idukki	780	2259	2.9
Narimangalam	70	371	5.3
Lower Periyar	180	616	3.42
Periyar	140	432	3.09
Panniar	30	181	6.03
Idamalyar	75	377	5.03
Sengulam	48	171	3.56
Pallivasal	37.5	236	6.29
Total	1360.5	4643	3.41



- The above graph shows the trend line of power generation of Big Hydropower projects for last 26 years in the basin, the trend-line shows generation from existing hydro power projects of Periyar River Basin.
- It shows that the per MW generation in 2010-11 (3.42) has dropped by a 17.79% from the highest per MW generation (4.16) achieved in the year 1994-95.
- All generation figures have been taken from official data of Central Electricity Authority (CEA).