

VCS Run of River, Kinnaur, India



The project is a run-of-the-river hydro-electric power plant with an installed capacity of 300 MW.

Location



The diversion barrage of the project is located across river Baspa, at Kuppa in Himachal Pradesh. The power house is located at Karcham village in Kinnaur District.

The Project

- 1) Run-of-the river power project with no water storage a capacity of 4 hours peaking during a period of 24 hours (design for diurnal storage) when the discharge in the river comes down to 9 cusecs during the winter season;
- 2) Strong sustainable development aspects of the project;
- 4) Its barrage is at an elevation of 2520.50 metres, the highest altitude for any such structure to come up in India.



Project Proponent operates a not-for-profit trust that supports:

- Socio-economic development
- Education initiatives

through its Comprehensive Rural Development Program in the areas around the project.

At Baspa project site, the sense of responsibility towards the society has found expression in several ways like building schools, free medical facilities, bridges, motorable roads etc.

Social Impact

Project activity has generated direct and indirect employment for skilled and unskilled manpower during construction phase as well as during operational stage and thus helped in controlling migration from the region and alleviation of poverty.

The project activity's contribution of power supply towards the NEWNE grid is helping in the upliftment of the social life of the people by ensuring a sustainable and reliable source of power for the region.

Economic Impact

The Project activity has improved the infrastructural facilities like water availability, road, and medical facilities etc. The Project activity brings considerable investment in the region and helps in overall development of the region via following ways:

- Roads have been built in the vicinity of the project;
- Eight bridges, spanning up to maximum of 121 metres, were constructed at various locations between Wangtoo, upstream of Nathpa on NH-22 and Kuppa barrage site);
- Funds and expertise for upgrading of existing schools in the region and for developing new ones have been provided;

- Health care facilities in the form of a hospital, new dispensary, doctors and medical staff as well as free medicines have been arranged by the company in the vicinity of the project for the benefit of the people of adjoining villages.



Environmental Impact

The project activity generates clean and green power thus causing negligible emissions of green house gases. If a coal or oil-fired thermal plant of the same capacity were to be built the emission of greenhouse gases would add about 12,000 tons of Sulphur oxides (SO_x), 6000 tons of Nitrogen oxides (NO_x), and about 2 million tons of carbon dioxide into the atmosphere each year. By building and operating the Baspa project, much pollution is avoided. The project activity has reduced the dependence on fossil fuels for power generation thus conserving the natural reserves. The project has led to green house gas emission reduction and hence helped in mitigating climate change.

This project has been approved under the VCS program



The VCS Program is recognized and trusted to ensure GHG emission reductions and removals are real, measurable, additional, permanent, independently verified, conservatively estimated, uniquely numbered and transparently listed in a central database.

For more information please contact:



Groenbalans B.V.
Churchillaan 11 -13 hoog
3527 GV Utrecht
+ 31 30 7533 114
www.groenbalans.nl
info@groenbalans.nl