Small-scale run-of-river hydro, Peru

Peru is rich in natural resources, however its renewable energy potential still remains largely untapped. This project makes use of the Andes Mountains' considerable potential for hydropower.

Location

This run-of-river plant is located in the center of Peru, in Huaral Province, in the Andes Mountains at an altitude of 3200 m.

Project

Without the need for a retaining dam, the plants use natural height differences to generate sustainable electricity. Water from the rivers Quiles and Baños is diverted and falls 350 m through a pressure pipe from a water head to the powerhouse. After delivering its kinetic energy to the turbine, the water is discharged back into the Baños River.

The project has an installed capacity of 9.2 MW, and is categorised as a small-scale hydro plant. The electricity is fed to the national grid.

The local people living in this harsh mountain region benefit from the project in several ways. Amongst other schemes, the project owner supports education for the children in the community. Several communication devices have been installed for use by the community, to facilitate contact with the lowlands and distant settlements. In addition, the project owner has repaired bridges and roads and has committed to their maintenance.

Project achievements

Socio-economic impact:

- The company provides breakfast for school children in order to improve school attendance.
- The company awards prizes to the best teachers as motivation for them in their teaching efforts within the community.
- The company arranges for the community to have a local telephone, and will install a parabolic antenna for radio reception.
- The company plans to manage waste residuals with the participation of the community.
- The company commits to the permanent maintenance of the road that passes through the community, and the construction of five bridges.
- The company commits itself to hiring workers from the community when the project activities require it.
- The company will provide the community with free electricity, and the community will work with the company on an energy-saving programme.

Checklist Project 301 368

✓ Additionality and permanence:	according to the rules of the VCS
✓ 3rd party verified::	by TÜV Nord
✓ Transparency:	provided by Markit Environmental Registry
✓ Annual CO_2-reduction:	35,000 tCO_2e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	pictures available

For further information and to learn about availabilities please contact:
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