south pole

I-REC STANDARD

KHE DIEN HYDROPOWER VIETNAM

Powering Vietnam with clean renewable energy

The project hydro plant generates clean renewable energy using the kinetic energy of the Khe Dien stream of the Thu Bon river. Surplus energy is transmitted to the national grid, which displaces energy derived from fossil fuels thus helping to reduce GHG emissions and securing the national energy supply.

The Context

Electricity in Vietnam is generated mainly from fossil fuel sources or imported. The Khe Dien hydropower project generates renewable power with negligible GHG emissions, the project helps to displace electricity otherwise supplied by fossil fuel-fired power plants. Vietnam's economy had been growing significantly over the past decade, with this demand has also been increasing. By generating domestic energy using renewable sources the project contributes to balance the demand and supply gap, helping to highlight the important role renewables play for the environment and beyond.

By contributing to domestic energy production the project helps balance the supply-demand gap

Commercial Operation Date
28 May 2007
Total capacity
9 MW

The Project

Located in a rural district in South Central Coast region, the Khe Dien project involves the construction of a hydropower plant. This includes a pool, intake, tunnel, pressurized well, penstock, powerhouse with 2 units and a discharge channel. The project generates electricity from the Khe Dien stream, a branch of the Thu Bon river, by converting the kinetic energy of water into electrical energy using a turbine. The net electricity generated is supplied to the national grid via a Power Purchase Agreement (PPA) signed with the Electricity Corporation of Viet Nam (EVN).

The Benefits

The project activity will generate renewable power for the national grid with negligible GHG emissions. This displaces electricity otherwise supplied by fossil fuel-fired power plants, which release significant harmful gases into the atmosphere. The project also contributes to local development, jobs have created for locals, which are higher than the regional average wage. Residents have also benefited from improvements in infrastructure, as a 12.5km road was built improving daily access.

SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD

I-REC STANDARD

40,600 MWh
of electricity generated on average per year

33,100 tCO_2e
mitigated on average per year

For more information on the UN Sustainable Development Goals, please visit: http://www.un.org/sustainabledevelopment/sustainable-development-goals/