



NAM SOI 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 Nam Soi project generates renewable power with negligible GHG emissions, which displaces part of the electricity otherwise supplied by fossil fuel-fired power plants. This helps to establish the domestic renewable energy industry, accelerate Vietnam's transition to a clean energy future and help to balance the demand and supply energy gap.

The Project

Located in the northwest region of Vietnam, the project activity involves the construction of a hydropower plant. This includes a dam, intake, tunnel, pressurized well, penstock, a powerhouse with 2 units and a discharge channel in Muong Cai commune. The project generates hydroelectricity from the Nam Cong stream for the national grid via a Power Purchase Agreement (PPA) signed with the Electricity Corporation of Viet Nam (EVN). The net electricity generated is supplied to the national grid via a 110 kV transmission line.

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, thanks to the Nam Soi project, 30,000 tCO₂e is mitigated on average per year. The project also contributes to local development, with surrounding roads improved and jobs created for locals, which are higher than the regional average wage.

The hydro plant converts the kinetic energy of flowing water into electricity

Commercial Operation Date

28 May 2010

Total capacity

10 MW

Grid

Vietnam national grid



**36,400
MWh**

of electricity generated on average per year



**Secure jobs
created**

providing income security to locals



**Local
roads
improved**

benefitting local transportation for the surrounding community



**30,000
tCO₂e**

mitigated on average annually

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