



NAM CONG HYDROPOWER, VIETNAM

**Harnessing clean renewable energy
from the Nam Cong stream**



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 project uses a clean and renewable energy source, displacing energy derived from fossil fuels, therefore helping to reduce harmful GHG emissions.

The Context

Vietnam's economy had been growing significantly over the past decade, naturally, the energy sector plays a significant role in promoting economic development. Economic growth requires a secure and affordable supply of energy to all economic sectors. In fact, the government has predicted that by 2035 the total final energy demand will be nearly 2.5 times higher than in 2015. To meet the rising demand, the share of coal has grown from 15% to 35% from 2000-2015, however, Vietnam has gone from a net energy exporter to needing to import its energy. The consequent impacts on the security of supply could be significant, therefore the government is looking to improve energy efficiency and carry out a strategy to increase the use of renewables.

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 Cong project, 31,627 tCO₂e is mitigated on average per year. The project also contributes to local development, as surrounding roads were improved and locals were employed, on higher than the regional average wage, to facilitate the construction and operation of the plant.

Local roads were improved and locals have been employed throughout the construction and operational phases of the hydropower plant

Commercial Operation Date

06 April 2010

Total capacity

10 MW

Grid

Vietnam national grid

Reportability

Meets GHG Protocol Scope 2 criteria, RE100, CDP



38,800
MWh

of renewable energy produced on average per year



31,600
tCO₂e

mitigated on average annually

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