



PROJECT SNAPSHOT

Wangdue Phodrang District, Bhutan | Energy
Ministry of Energy and Natural Resources | Approved

Renewable Energy for Climate Resilience Project

01

Climate risk

Climate change is increasing risks to Bhutan's hydropower-dependent energy system through changing river flows, glacial lake outburst floods, and sedimentation. Because Bhutan generation relies almost exclusively on hydropower, energy security is highly vulnerable to climate-induced disruptions in water resources.

02

Adaptation investment

Bhutan's **first utility-scale solar project (22.5 MW)** to diversify the energy mix beyond hydropower, while increasing community awareness of solar energy and creating employment and skills development opportunities for youth in the renewable energy sector.

03

Resilience outcomes and transformational impact

Reduce reliance on climate-vulnerable hydropower and strengthen energy security through diversification. The project supports Bhutan's adaptation strategy and establishes a transformational pathway toward a more climate-resilient and diversified energy system.

04

Investment case

The \$18.26 million blended investment to pioneer utility-scale solar development. Strengthening climate resilience and energy security, while establishing a replicable model to catalyze future solar investments and private sector participation across the country.

KEY TAKEAWAY: Bhutan's first utility-scale solar project demonstrates a scalable model for energy diversification and climate resilience