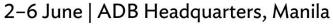
# ASIA CLEAN ENERGY FORUM 2025







### **Case Study on**

## G9211-BHU Alternative Renewable Energy Pilot Project Bhutan

#### Sonam Zam Project Officer, Bhutan Resident Mission

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#### ACEF 2025\_ALTERNATIVE RENEWABLE ENERGY PILOT PROJECT\_BHUTAN



Potential: 33,000 MW Installed Capacity: 3,491 MW Firm Power: 650-700 MW

SN	Power Plants/Projects	Installed Capacity (MW)
1	Embedded Generation	9
2	Chhukha	336
3	Kurichhu	60
4	Basochhu Upper Stage	24
5	Basochhu Lower Stage	40
6	Tala	1,020
7	Dagachhu	126
8	Mangdechhu	720
9	Nikachhu	118
10	Punatsangchhu II*	1,020
11	Suchhu	18
		3,491

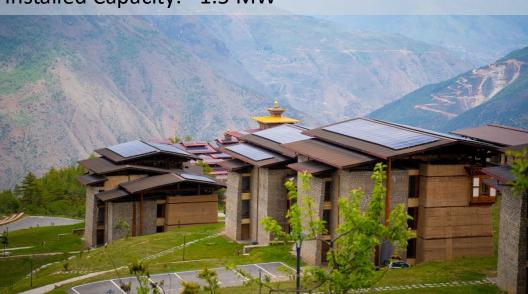
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#### ACEF 2025\_ALTERNATIVE RENEWABLE ENERGY PILOT PROJECT\_BHUTAN



Rooftop solar at Dungkhar dzong

Potential: 12,000 MW Installed Capacity: ~1.5 MW



#### **Need for Diversification:**

- Rural Renewable Energy Development Project (2010-2019)
- Alternative Renewable Energy Pilot Project (2020-2026)
- Renewable Energy For Climate Resilience Project (2022-2026)
- Distributed Solar For Public Infrastructure Project (2024-2030)

Grant 9211-BHU: Alternative Renewable Energy Pilot Project

Japan Fund for Prosperous and Resilient Asia and the Pacific				US\$ 3.00 million		
Milestones						
Approval	Signing Date	Effectivity Date		Closing		
			Original	Revised		
21 Oct 2020	06 Nov 2020	26 Jan 2021	30 Jun 2025	30 Dec 2026		

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#### ACEF 2025\_ALTERNATIVE RENEWABLE ENERGY PILOT PROJECT\_BHUTAN

**Aim:** To demonstrate the viability of solar power as a sustainable energy source and an income-generating opportunity for rural communities.

**Scope:** 3kW grid-tied solar PV systems on 514 households along with livelihood skills training and equipment support to maximize benefits of abundant solar electricity.

**Criteria:** National Multidimensional Poverty Index (MPI), geographical condition, atmospheric conditions, technical viability, and availability of telecommunication and other infrastructures.

Sustainability: Prosumer agreement, Insurance, Bank Setup

