



The views expressed in this presentation are the views of the author/s and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy of the data included in this presentation and accepts no responsibility for any consequence of their use. The countries listed in this presentation do not imply any view on ADB's part as to sovereignty or independent status or necessarily conform to ADB's terminology.



REGIONAL CONFERENCE

INCLUSIVE ENERGY TRANSITION IN SOUTH ASIA AND BEYOND

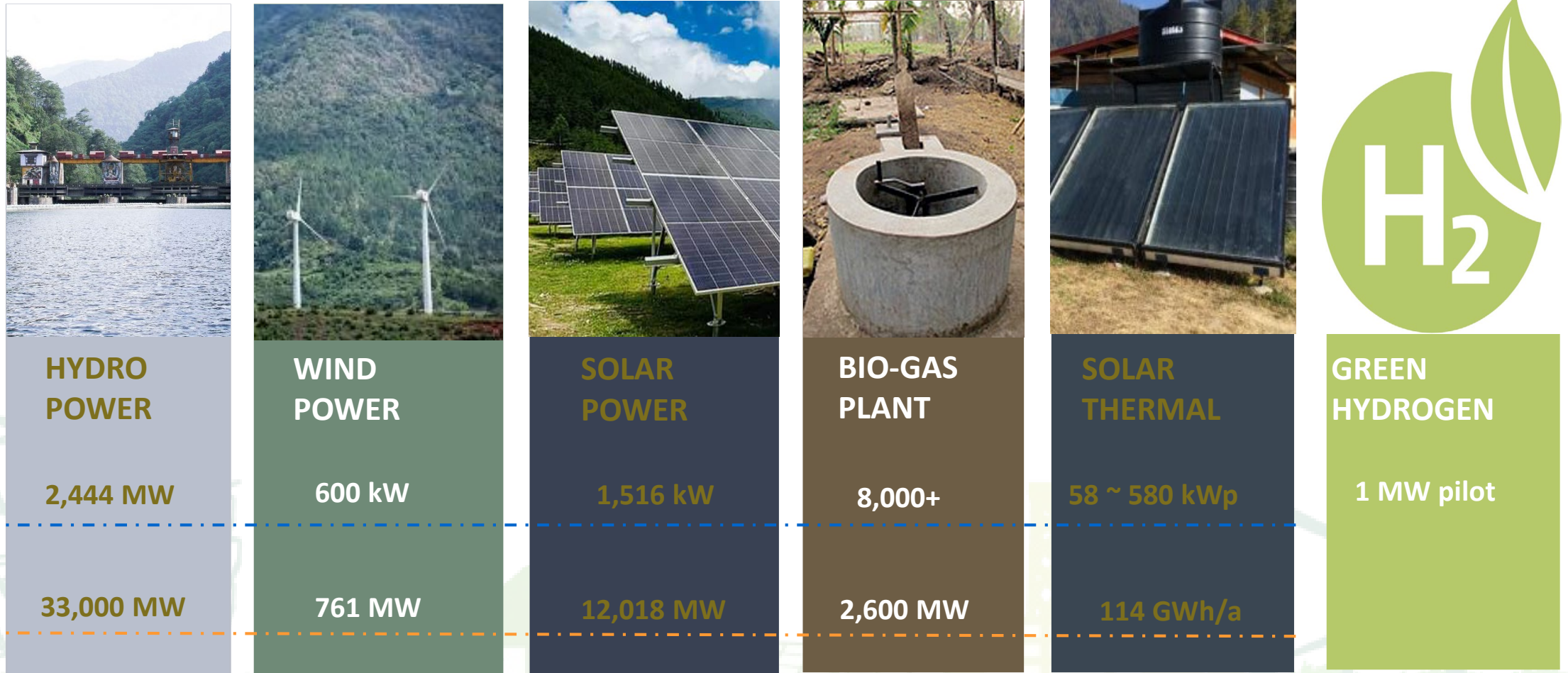
7–9 MAY 2024 • Galle, Sri Lanka

Sustainability in Bhutan: Supplementing hydropower with solar

Kuenga Choden Dorji
Sonam Zam



Sustainability in Bhutan: Supplementing hydropower with solar



Source: Ministry of Energy and Natural Resources, Bhutan

Case Study: Alternative Renewable Energy Pilot Project



Aim: Provide reliable and sustainable electricity to the rural households through harnessing solar power which will contribute to poverty reduction, and gender equality.

Objective: To demonstrate the viability of solar power through a pilot project and develop an enabling regulatory framework with due consideration given to the rural poverty.

Achievement:

- Rural households benefitted – identification of households with poverty (304 HHs)
- Women empowerment
- Policy formulation

Other Components:

- On-the-job trainings
- Employment
- Collaborations with TVET



Sustainability in Bhutan: Supplementing hydropower with solar

Conclusion:

- Need for diversification of energy
- Inclusive energy transition
- Prosumer model, captive energy to minimize high import tariff

Next Steps & Future Work:

- Policy: Adoption of feed-in tariff and other innovative models
- Human resource development: capacity building on solar technologies, entrepreneurship
- Additional approaches: Reservoir hydropower projects – integrated floating solar, and Agri-voltaic