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SOUTH ASIA SUBREGIONAL WORKSHOP

INCLUSIVE CLEAN ENERGY TRANSITIONS IN BANGLADESH, MALDIVES AND SRI LANKA

26-27 May 2025 • Dhaka, Bangladesh

Accelerating Sustainable Systems Using Renewable Energy (ASSURE)
Case Study - Maldives



ASSURE: Driving an Inclusive and Resilient Energy System in Maldives

Technical Innovation

- Solar PV
 - Floating,
 - Rooftops
- Wind energy with BESS
- Energy Storage System
 - Lithium Ion
 - Flow Battery
- Piloting New Technologies
 - Ocean Energy-Pilot
- Grid upgrades, smart Energy Management System
- Renewable Energy Based Agricultural Intervention

Financial Innovation & Sustainability

- Escrow accounts, performance incentives for IPPs,
- \$100.5M finance mobilized, including ADB,CTF, ACliFF, JFJCM ,government and Private Sector
- Diesel import savings & subsidy reduction per year

Institutional & Social

- Internships for female STEM graduates & technical training
- Solarized, WDC-managed farming plots to boost livelihoods
- Capacity building for FENAKA, MOECCT & women's leadership
- Productive use of energy- RE based agriculture

ASSURE: Enabling Solarized Agriculture for Local Economic Development

Technical

- Solar Assisted Desalination
- Solar Assisted Irrigation
- Climate-Resilient Shade & Bird-net Houses
- Shade and bird-net houses equipped with automated drip/fog/misting systems
- Hydroponics + Drip Irrigation Systems- to grow high value vegetables and salads
- Smart EMS and remote monitoring for optimized irrigation

Financial and Capacity Support

- Infrastructure + O&M bundled
- Training of farmers and local technicians
- Start-up capital, market linkage, and financial literacy for WDCs

Outcomes

- Enhances food security, climate resilience, and income
- Empowers women as clean energy entrepreneurs
- Provides a replicable model for outer island development

ASSURE Case Study: Gender and Social Inclusion Elements

- ASSURE project demonstrates the cross-sectoral co-benefits of the clean energy transition.
- Interventions of the ASSURE project are designed with a focus on:
 - ✓ Gender and community inclusive cross-sectoral support strategies
 - ✓ Supporting the energy-water and food nexus
 - ✓ Community driven and operated approaches to climate resilient development.
- The project is designed to support income generation activities, in particular for women, through the introduction of innovative farming approaches, irrigation systems and cold storage powered with renewable energies, which will in turn also contribute to ensuring the food security and the attainment of the SDGs.
- The project has a well-designed Gender Equality and Social Inclusion Action Plan (GESI-AP)
 - ✓ Agriculture related JUST Energy Transition design features focusing on livelihoods
 - ✓ Specific interventions and targets at the community level focusing on women and disadvantaged households



Key interventions—included in the Gender Equality and Social Inclusion Action Plan (GESI AP)

The project aims to build a pipeline of qualified female professionals in the energy sector through:

- ✓ Internship programs for females in science, technology, engineering, or mathematics (STEM) fields
- ✓ Creating employment opportunities for women, including development of a woman leadership program, in the MOTE and FENAKA.
- ✓ Trainings to members of WDC on learning how to manage, operate and maintain the assets built, with a focus on innovative and climate and disaster risk resilient agricultural practices.
- ✓ Providing start-up capital and supporting the establishment of farm-to-market linkages.

These interventions will contribute to:

- ✓ Reducing income disparities between men and women
- ✓ Increasing prospects for women-led local agribusinesses
- ✓ Increasing women's participation in decision making processes, including adoption of renewable energy for household consumption and net metering.



✓ Paving the way for realizing the cross-sectoral co-benefits of the clean energy transition

