

Ministry of Environment, Climate Change and Technology Republic of Maldives



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Launch of South Asia Distribution Utilities Network (DUN)

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Overview

1. Total 1192 island. 186 inhabited. 169 resorts.
2. State Electric Company Limited – 33 islands.
3. FENAKA Corporation Limited – 155 islands.
4. No national grid. Each island has its own generation and distribution.
5. Costs of generation from diesel range between USD 0.23 - 0.33/kWh in the most efficient case and go up to USD 0.70/ kWh for some of the smaller inhabited islands.
6. ~10% of GDP is spent on importing fuel.
7. Electricity retail tariff is heavily subsidized. ~4% of annual budget is spent on electricity subsidies.

Challenges

1. Old inefficient island distribution networks;
2. Islands separated by the ocean creating a challenging environment for interconnection except for only few locations;
3. Space constraints in the islands to expand generation capacity;
4. Cost recovery through retail tariff challenging due to affordability reasons;
5. Access to concessional finance;
6. Resource constraints at the Policy & Regulatory institutions and Service Providers
7. Access to commercially proven renewable energy technologies, especially ocean related technologies.
8. Regulations and standards development

Initiative taken/Flagship schemes

1. Net-zero by 2030 – nationwide implementation of renewable energy technologies;
2. Utility scale floating solar and battery energy storage systems;
3. Rehabilitating existing island powerhouses and distribution networks;
4. Energy efficiency Standards and Labelling Program;
5. Home Solar under net metering arrangement;
6. Independent Power Producer (IPP) license to generate and sell electricity under long terms Power Purchase Agreement.
7. New Energy Act.
8. Establishments of Utilities Regulatory Authority under act of Parliament.
9. Working towards phasing out subsidies and cost reflective tariff

Expectations from South Asia DUN

1. Technical support from DUN on:
 - Smart metering and network planning
 - grid-stability and synchronization
 - Distribution planning
 - Utility DSM and Demand Response
 - Standards and Regulations
2. Training and Capacity building in these areas
3. DUN should become a go to platform for knowledge sharing and peer to peer learning



THANK YOU