**1192 Tropical Islands**  
187 Inhabited + 1005 Uninhabited

**135 Tourist Resorts**  
2018

**Population of 344,023**  
2014 census

**GDP per capita 8980 US$**  
2017

**Area : 115,300 sq. km** (including sea)  
| **EEZ : 859,000 sq. km**

**Total land area: ~ 300 sq. km**  
| Less than 1% of the EEZ

**80 % is less than 1 meter above sea level**
ENERGY SECTOR OVERVIEW

Entirely dependent on imported fuel

Total primary energy consumption: 704 GWh/year
Male’ region: 400 GWh/year

561,435 metric tons of fuel imported

Oil import - 10% of GDP

UNDP ranked Maldives among the countries most vulnerable to oil price variations in the Asia Pacific region

ENERGY MIX

- Diesel: 77%
- Petrol: 8%
- Aviation Gas: 13%
- LPG: 2%

Data as of Dec 2017
ENERGY SECTOR OVERVIEW

Total Installed Capacity: 405 MW

- Industrial: 20 MW
- Resorts: 135 MW
- Inhabited: 240 MW
- Renewable: 16 MW
TRANSFORMATION OF ENERGY SECTOR

MALDIVES ENERGY POLICY AND STRATEGY 2016

- Strengthen Institutional Capacity and Regulatory Framework
- Promote Energy Conservation and Efficiency
- Promote Renewable Energy Technologies
- Improve Reliability and Sustainability of Electricity Service
- Increase National Energy Security
TRANSFORMATION OF ENERGY SECTOR

Power Generation:
All inhabited islands of the Maldives will have solar PV installed equivalent to 70 percent of the daytime peak load.

- SREP: scaling up renewable energy program
  - ASPIRE: focused on private sector investments
  - POISED: focused on public sector investments

Demand Sided:
- LCEI: Strengthening Low Carbon Energy Island Strategies (LCEI)
POISED
PREPARING OUTER ISLANDS FOR SUSTAINABLE ENERGY DEVELOPMENT

PHOTO : 626KWP SOLAR PV SYSTEM, ADDU CITY

FUNDING
- Administered by Asian Development Bank (ADB)
- ADB Grant
- EIB Loan
- SCF
- JFJCM
- GoM

SCOPE
- Rehabilitate existing power systems in the islands
- Installing about 21 MW of RE in the islands
- Geographical coverage: Outer Islands

STATUS
- 4674 kWp Completed Implementation
- 2860 kWp
FUNDING

Private investment leveraged by the World Bank (WB) financial securities

SCOPE

- To create project structures conducive for private sector participation
- Install **20 MW** of solar PV
- Geographical coverage: Greater Male’ Region

STATUS

- 1500 kWp: Completed
- 5000 kWp: Implementation

**Project Goal**

To mainstream energy efficiency measures into policies, guidelines, standards and building practices in the Maldives and to achieve a substantial reduction of GHG emissions as a result of improved buildings and building management practices and to leverage substantial investment in activities leading to increased energy efficiency

**Funded by:** Global Environment Facility (GEF)

**Executed by:** Ministry of Environment

**Collaboration with:** UN Environment
Energy Efficiency Standards and Labelling programme

Guideline for cost-effective and practical energy efficiency improvements in new and existing buildings

Incorporating life-cycle costing in public procurement

Awareness and capacity building
LCEI
STRENGTHENING LOW CARBON ENERGY ISLAND STRATEGIES (LCEI) PROJECT

- Save energy: Avoid over stuffing the refrigerator.
- Save energy: Keep printers and photocopy machines turned off after office hours.
- Save energy: Maximize use of day light.
- Save energy: Avoid frequent opening of refrigerator door.
- Save energy: Paint the buildings with light colors.
THANK YOU

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MINISTRY OF ENVIRONMENT
REPUBLIC OF MALDIVES