



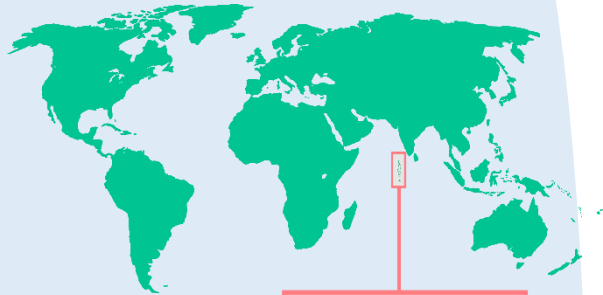
MALDIVES ENERGY SECTOR

August 2019

MINISTRY OF ENVIRONMENT
REPUBLIC OF MALDIVES

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Climate Change Department

COUNTRY OVERVIEW



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

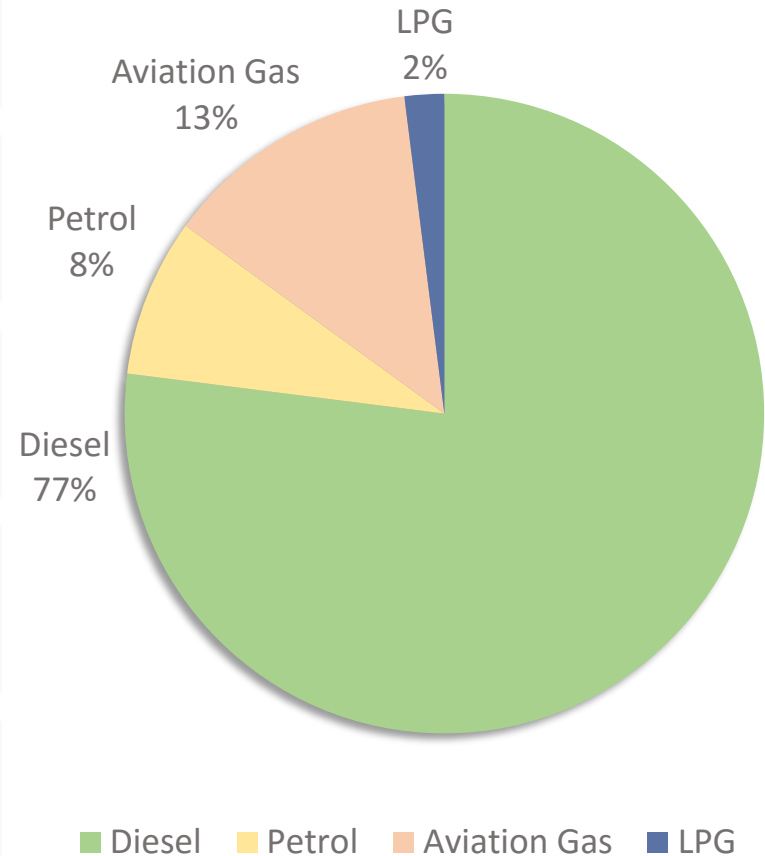
Total primary energy consumption: 704 GWh/year
Male' region : 400 GWh/year

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



GOVERNANCE AND OPERATION

GOVERNMENT

Ministry of Environment and Energy

Maldives Energy Authority

UTILITIES



35 Islands



1 Island



147 Islands

CONSUMERS



ENERGY SECTOR OVERVIEW



Industrial
20 MW



Resorts
135 MW



Inhabited
240 MW



Renewable
16 MW

Total Installed Capacity : 405 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

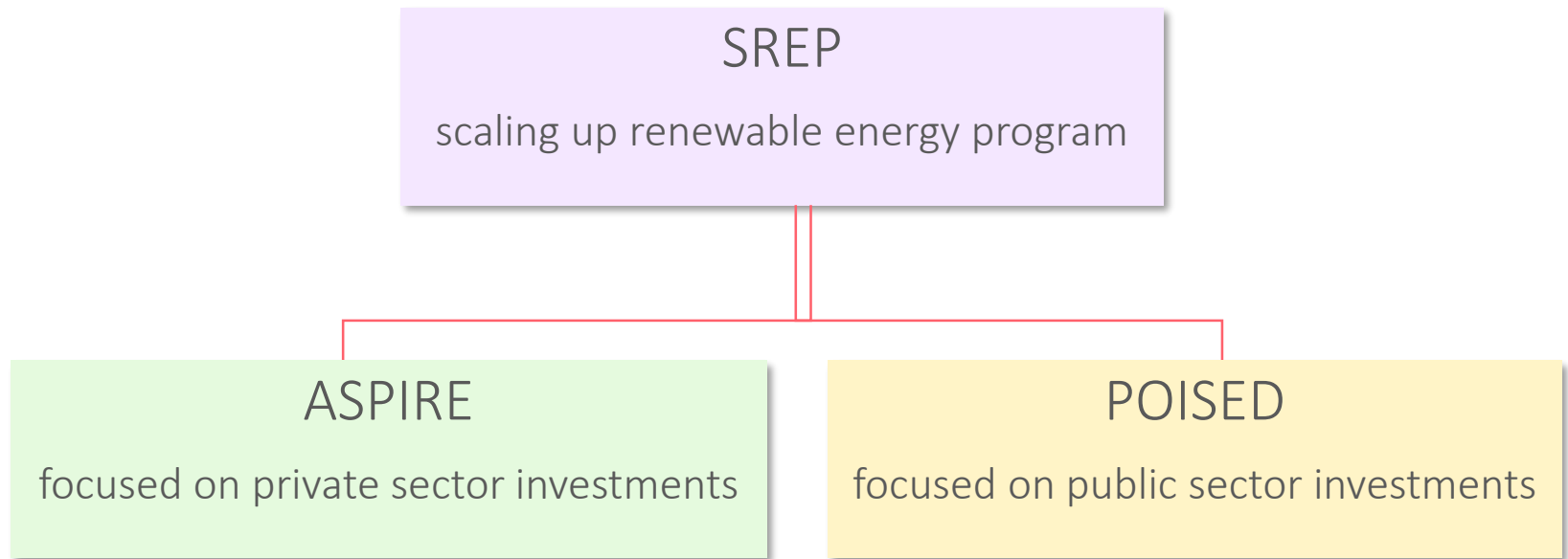


Increase National Energy Security

TRANSFORMATION OF ENERGY SECTOR

Power Generation:

All inhabited island of the Maldives will have solar PV installed equivalent to
70 percent of the daytime peak load



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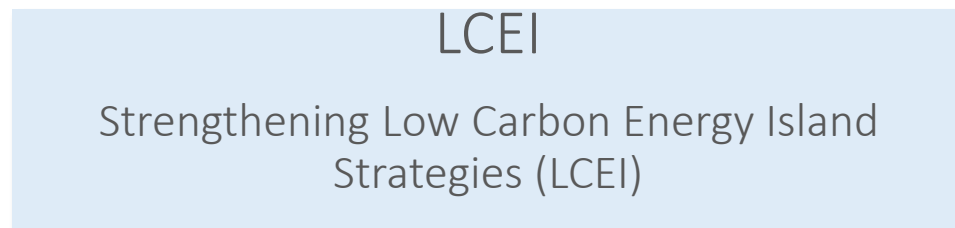




PHOTO : 626KWP SOLAR PV SYSTEM,
ADDU CITY

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

2860 kWp

Implementation

ASPIRE

ACCELERATING SUSTAINABLE PRIVATE INVESTMENT IN RENEWABLE ENERGY

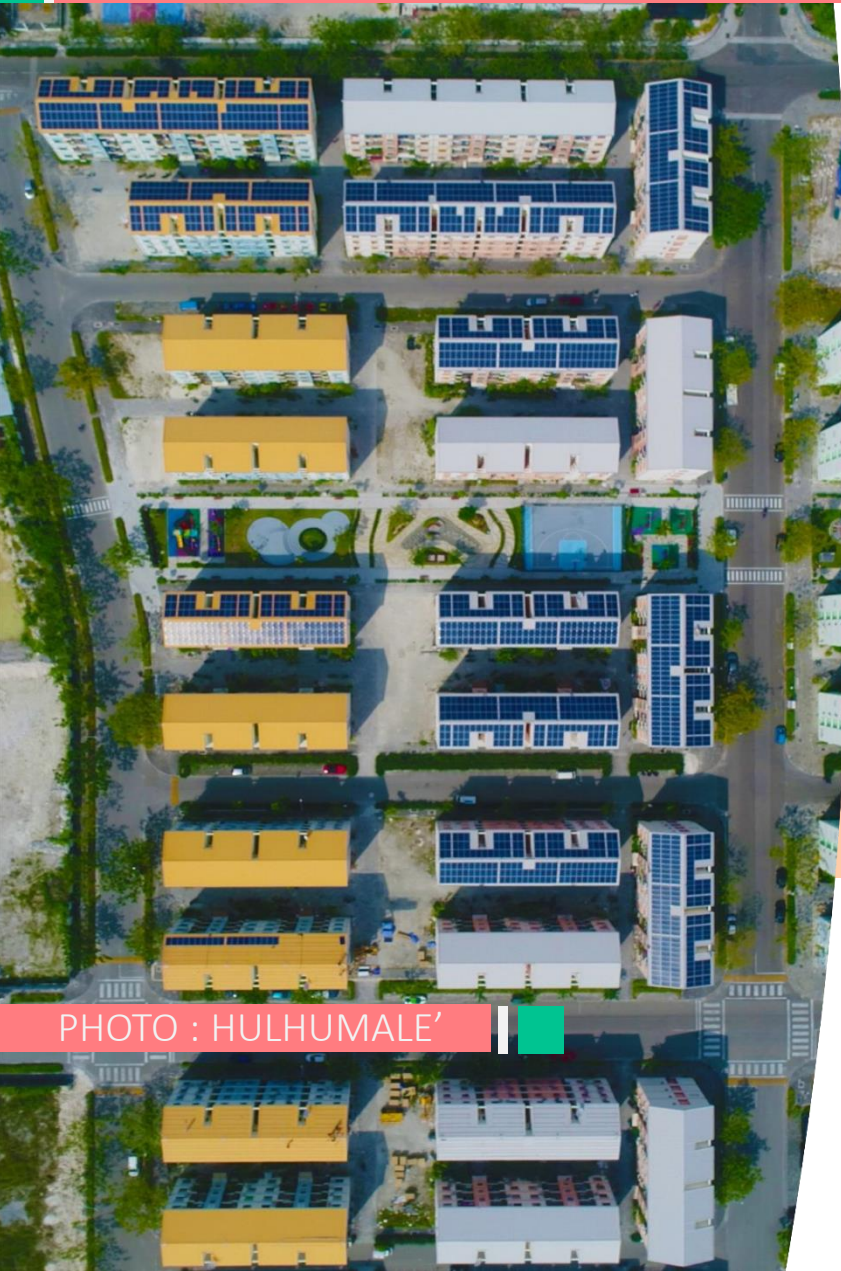


PHOTO : HULHUMALE'

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



Promoting Energy Efficient Buildings through

Strengthening Low Carbon Energy
Island Strategies (LCEI) Project



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



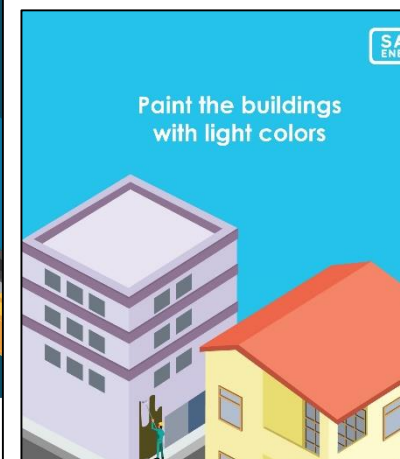
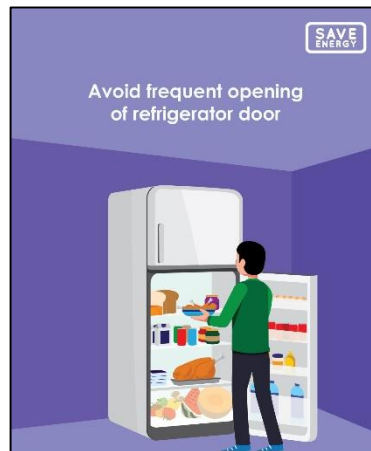
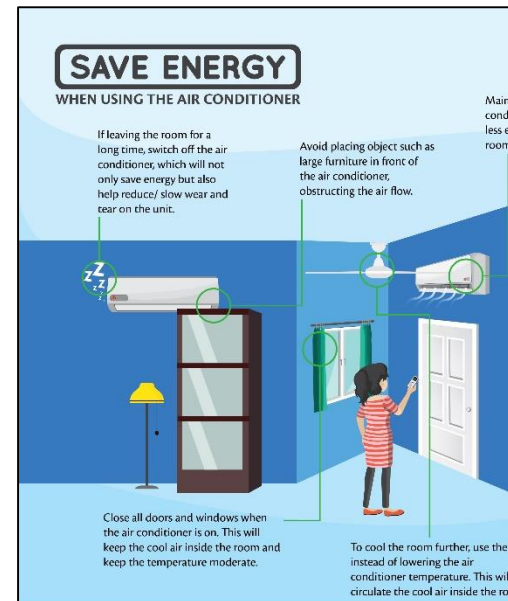
Guideline for cost-effective and practical energy efficiency improvements in new and existing buildings



Incorporating life-cycle costing in public procurement



Awareness and capacity building





THANK YOU

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