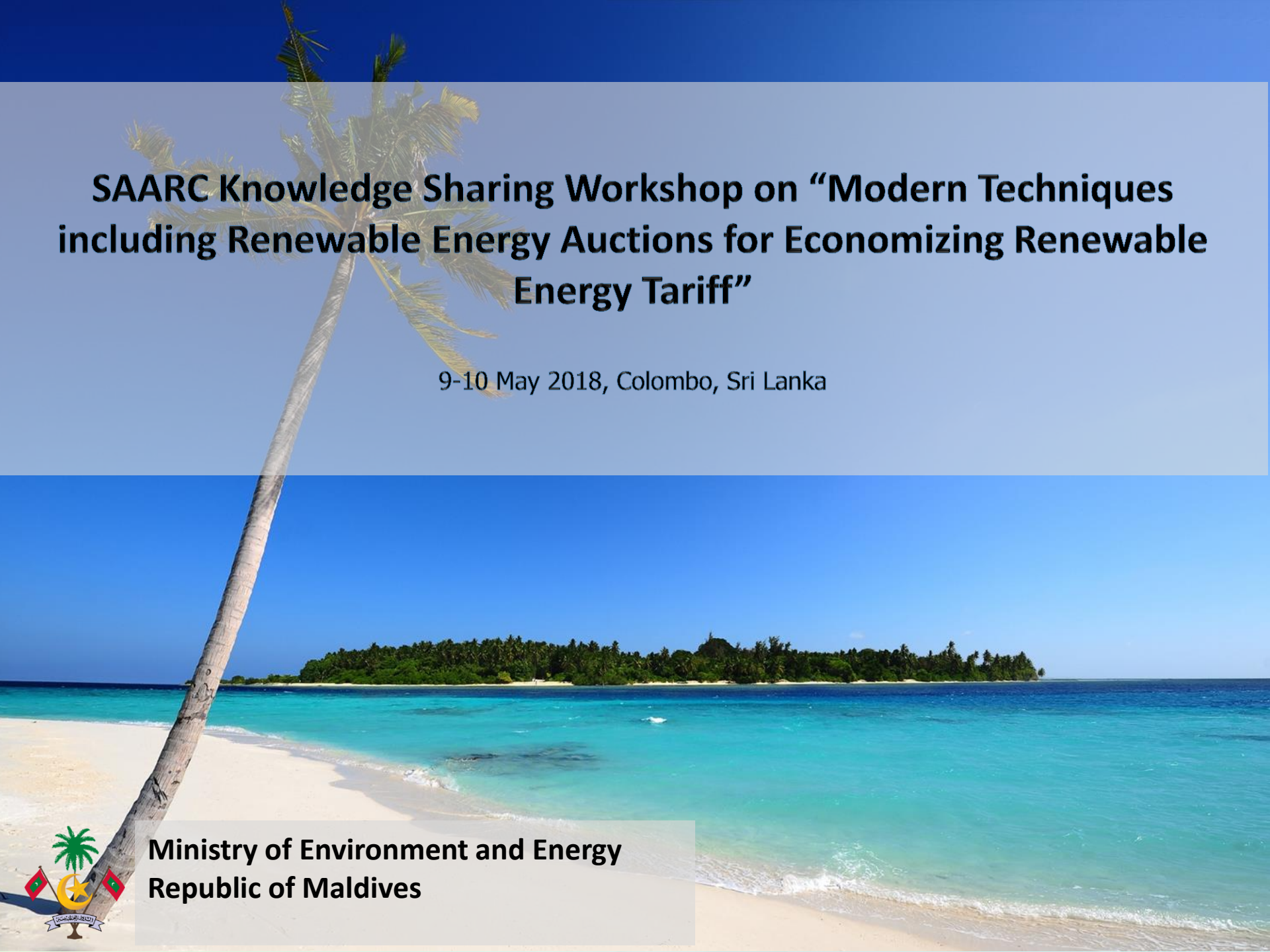




SAARC Knowledge Sharing Workshop on “Modern Techniques including Renewable Energy Auctions for Economizing Renewable Energy Tariff”

9-10 May 2018, Colombo, Sri Lanka



**Ministry of Environment and Energy
Republic of Maldives**



COUNTRY OVERVIEW

- **1192 Beautiful Tropical Islands**
- **186 Inhabited Islands**
- **123 Tourist Resorts**
- **Population of 350,759**
- **GDP 3.59 billion USD in 2016**
- **Total land area: approximately 300 km² (less than 1% of the EEZ)**

80% is less than 1m above Sea Level



Energy Sector Overview



Entrance harbour to Male'

ENERGY SECTOR OVERVIEW



Entirely dependent on imported fuel

Electricity consumption in inhabited islands: 627 GWh/year in 2016

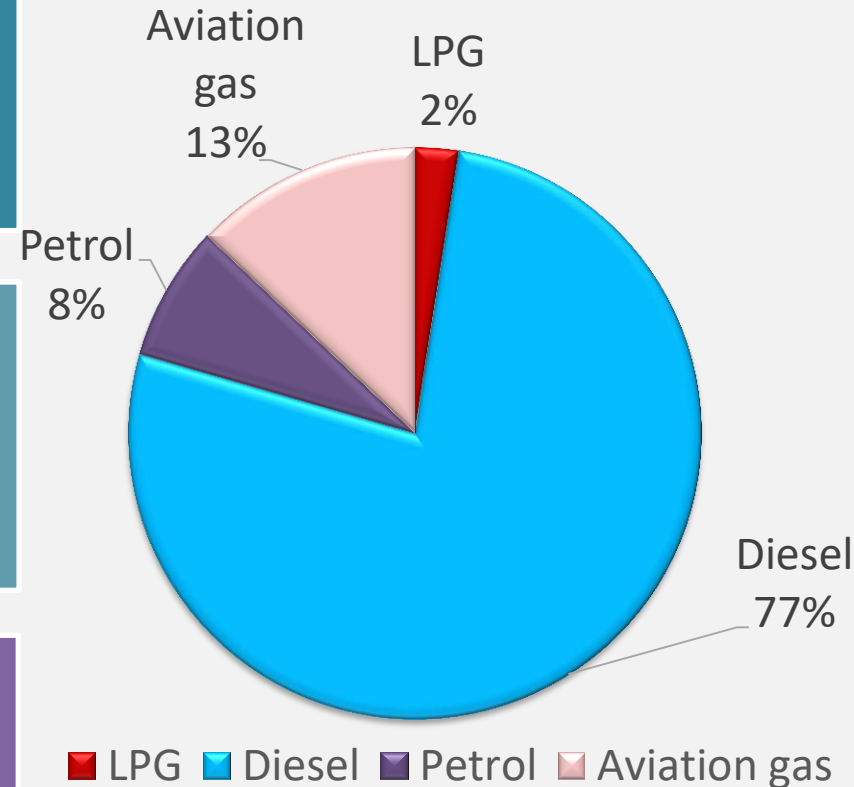
Import of petroleum products accounted for \$314.3 Million in 2017

Oil import- 10% of GDP

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

Total CO2 emissions: 473,784 tCO2

Energy Mix - Maldives



GOVERNANCE AND OPERATION



Ministry of Environment and Energy

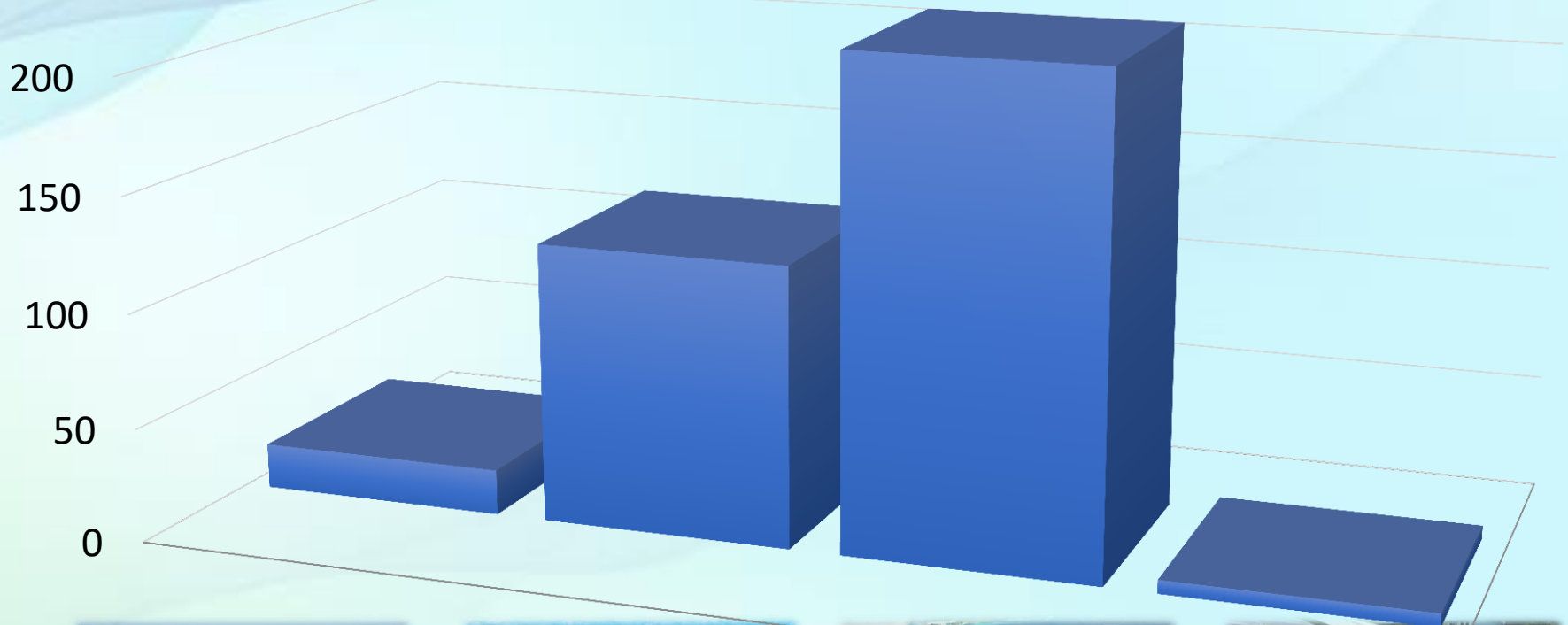


Maldives Energy Authority



Consumers

ELECTRICITY INSTALLED CAPACITIES



Industrial
20 MW



Resorts
123 MW



Inhabited
214 MW



Renewable
9 MW

Total Installed Capacity : 366 MW



Transformation of Energy Sector



Finolhu Villas-The first 100% solar-powered resort in Maldives

RENEWABLE ENERGY



- Within last 4 years, 7.6 MW of solar PV have been installed in the country through various models making our current RE installed capacity to 9.6 MW. Targeted to reach this upto 18MW by end of 2018***

558 kWp solar PV in 3 public buildings in Gdh. Thinadhoo



740 kWp Solar PV installation at Male'



960 kWp Solar PV installation at Finolhu Villas Resort



ENERGY EFFICIENCY



Policy-Promoting energy efficiency and energy conservation conducted

- Supply side energy efficiency programs
 - Power system rehabilitation
 - Distribution networks
 - Generating sets
- Demand side energy efficiency programs
 - EE Standards and labeling
 - EE & EC awareness campaigns
 - Its cool at 25
 - LED Saves
 - Distribution of LED lights
 - 267,750 LED tube lights distributed in 2013-2015
 - Distribution of 267,500 LED lights ongoing



Renewable Energy Auctions



Addu City –Single largest roof-top solar PV system in Maldives

FEED-IN TARIFF IN MALDIVES



- Standard Power Purchasing Agreement
- Tariff reviewed and decided for each new PPA project
- Utilities are the ultimate buyers of all privately generated electricity

POWER-PURCHASING AGREEMENTS IN MALDIVES



Project: 6 Island Solar PV

PPA between State Electric Company Limited and Renewable Energy Maldives Pvt Ltd

652 kWp solar PV in Villingili, Maafushi, Guraidhoo, Himmafushi, Kaashidhoo and Thulusdhoo.

Project: Clean Energy Promotion in Male'

PPA between Ministry of Environment and Energy and State Electric Company Limited

740 kWp Solar PV in Male' and Hulhumale

Project: Accelerating Sustainable Private Investments in Renewable Energy (Phase 1)

PPA between State Electric Company Limited and Hullhumale Renewable Energy Company

1.5MW of solar PV in Hulhumale



NET METERING IN MALDIVES



Net Metering and Interconnection of Renewable Energy Installations to Distribution Network Regulation launched in 2015

The objectives of net metering regulation are:

1. The generation of additional power into the distribution grid, reducing the investment requirements of utilities
2. To allow customer-generators to reduce their imports from distribution networks through generating for own consumption
3. To reduce dependence on expensive and environmentally unfriendly sources to generate electricity by promotion of sustainable renewable energy sources, small scale investments, value addition and electricity market development and improve energy security





THANK YOU