



Ministry of Environment, Climate Change and Technology
Republic of Maldives

Reduce Dependency on Fossil Fuel, Increase Sustainability
& Affordability in Maldives:
Scaling Up Renewable Energy Share & Private Sector
Investments

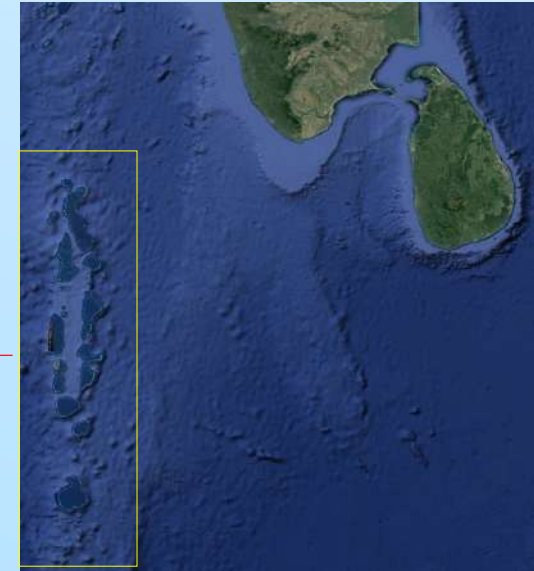
June 2023

Ahmed Ali

MALDIVES

Geography

- A chain of coral atolls
- 860 km long, 80 -120 km wide
- 1,192 small islands located in 26 geographical atolls
- over 80% of land area less than 1m above mean sea level
- 20 administrative atolls
- 187 inhabited islands
- 160 tourist resorts
- Island size: from 0.5 to 2 sq.km
- Total land area: less than 1%
- Small population: ~400,000



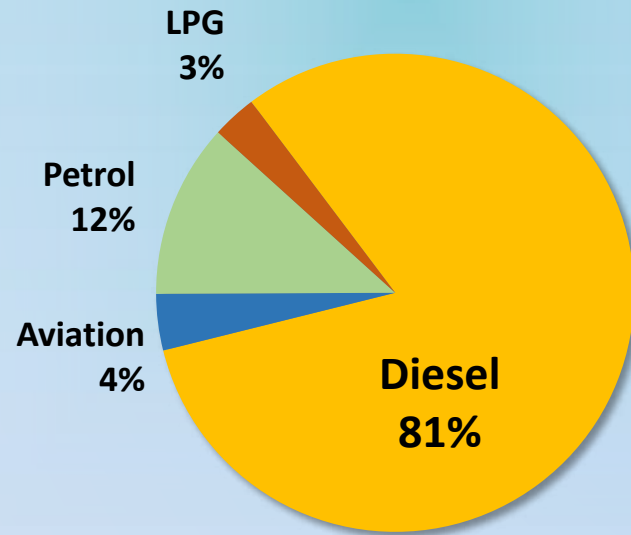
Energy Sector

Overview

Entirely dependent on imported fuel

Fuel import- 10% of GDP

TYPES of fuel imported



Fuel imports by type (CIF)
2021 / Customs (MECCT)



Total Installed Capacity : 585.5MW

Power Sector

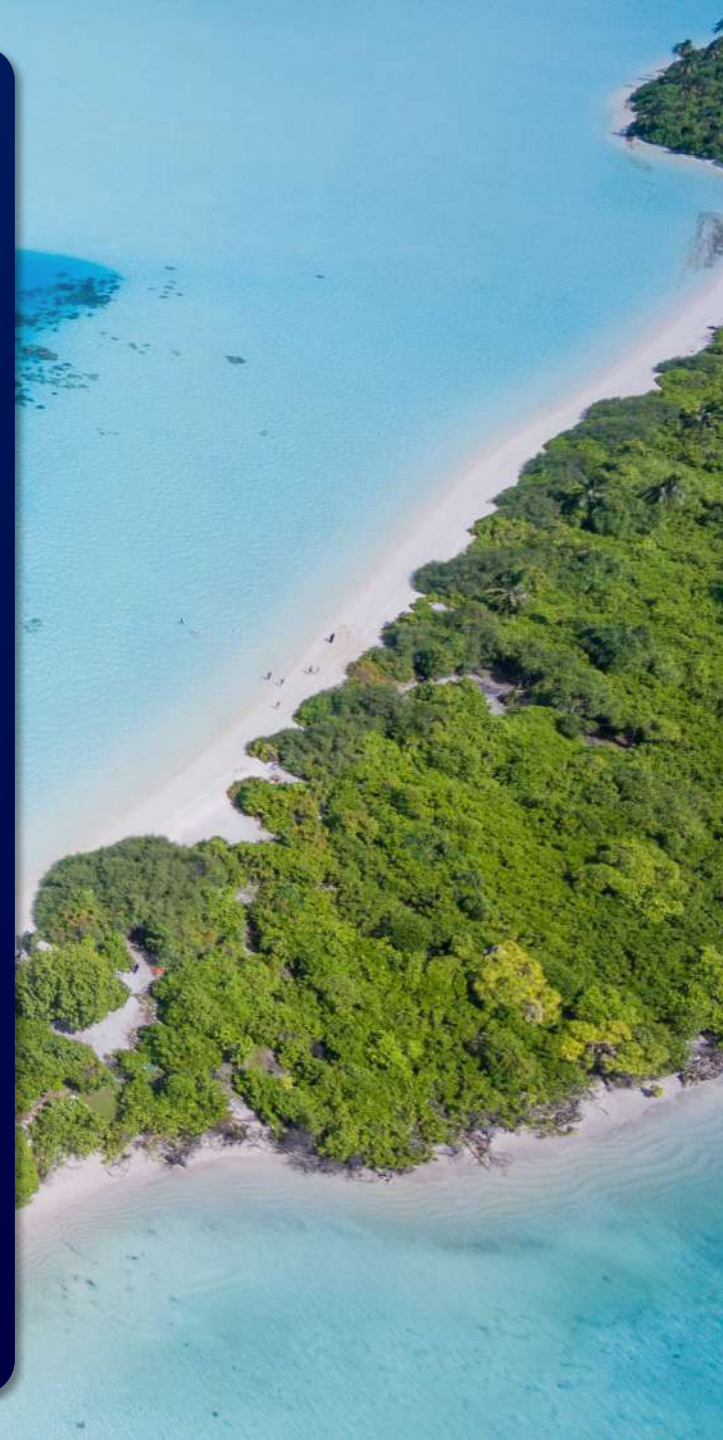
Overview

164 Tourist Resorts

- One island one resort concept
 - Each Island have its own power generation & distribution systems

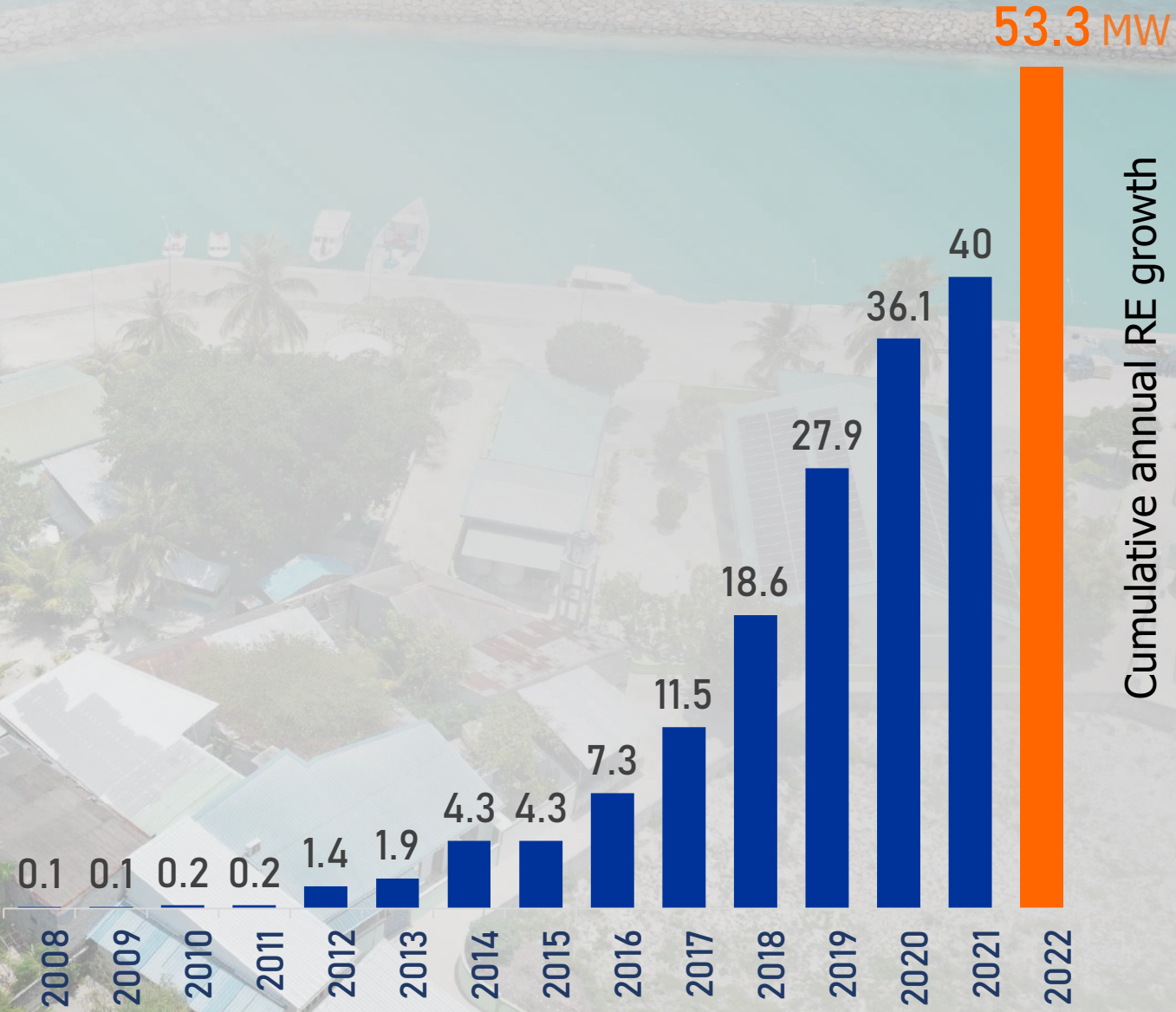
187 Inhabited islands

- Different land sizes, population – different power demands
- Power systems are developed on ad-hoc basis
- Diesel generators are of varying sizes & ages
- Power distribution cables are of varying sizes & ages resulting huge distribution



Renewable energy growth

Total installed RE
53.5 MW



Net-Zero target

Net-zero
Emissions by
2030

- Solar PV & other RE sources
- Waste to energy
- Demand side energy efficiency
- Transportation

Successful projects

Ground Mounting & Rooftop PV

Completed projects

1.5 MWp



Successful projects

Rooftop PV

Completed projects

1.5 MWp



Successful projects

Floating & Rooftop PV

Completed projects

IPP model

Location : LUX resort - Maldives

Image source www.sofarocan.com



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Thank you

