

# Unique Challenges of Scaling Up Renewable Energy



**Maldives Energy Authority**

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Greater Male'

~70 MW



Resorts

~105MW



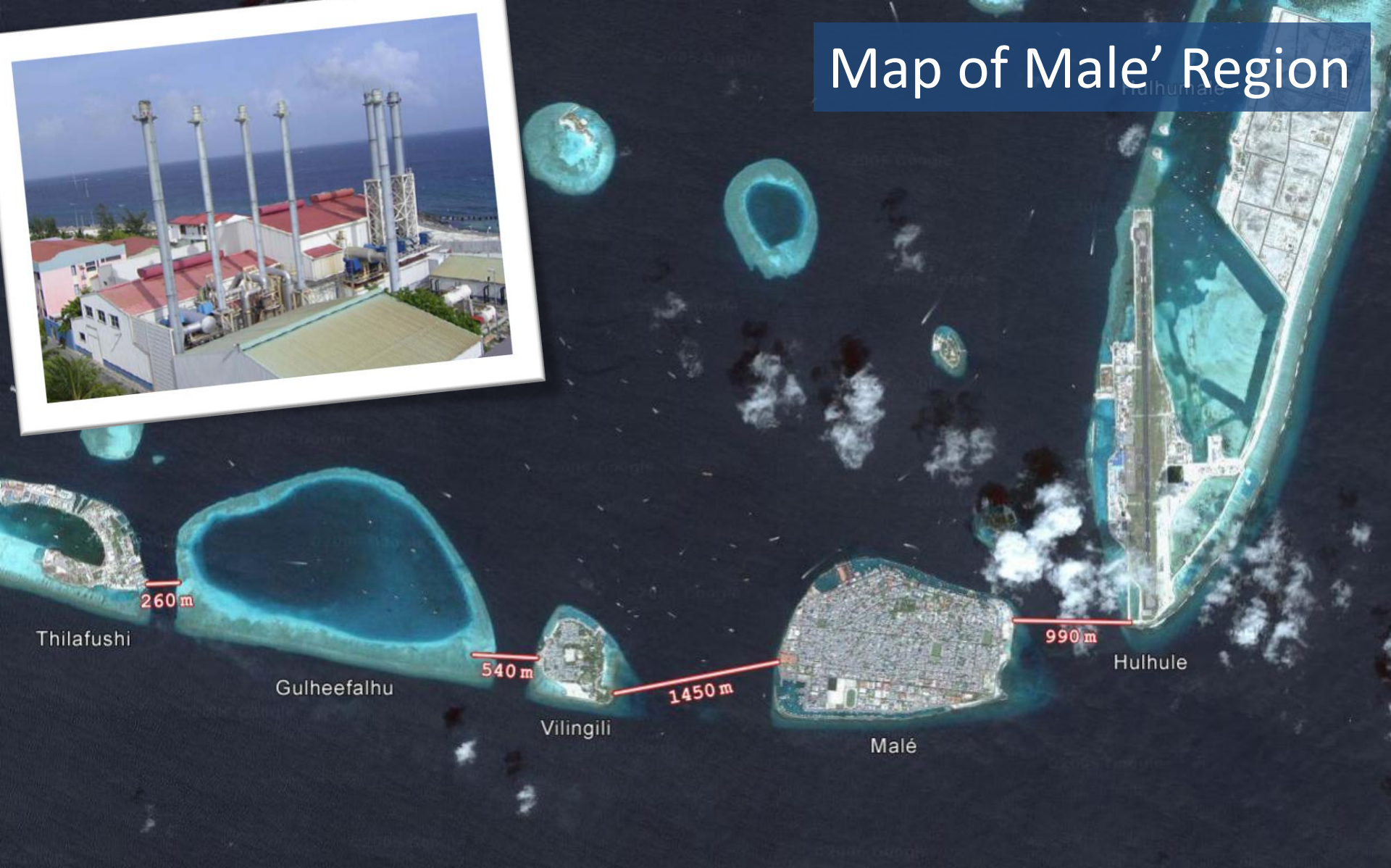
Other Islands

~70 MW

# The Maldives



# Map of Male' Region



The possibility of expanding the power station to cater for demand in the congested Malé island is very limited as there is simply no land available.



Economies of Scale

Space constraints

Logistical challenges

System optimization

Technical expertise and awareness

Access to concessional finance

US\$ 30 – US\$ 70 cents per kWh

High RE Resource Potential

# Way Forward

An aerial photograph of a densely populated urban area, likely in the Maldives, showing a mix of colorful buildings (red, white, blue, green) and a waterfront area with a road and some commercial buildings. The image is overlaid with four red semi-transparent boxes containing white text.

Create predictable, stable and transparent markets for RE investments

Inter island connection through submarine cables where feasible

Nationwide implementation of Renewable technologies with Smart mini grids

Given the size of the Maldives and scale issues with projects, there needs to be effort to aggregate potential projects.

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