

newenergy

CREEF

2023

15th Caribbean Renewable
Energy Forum

Castalia-CREF
Renewable Islands Index

David Ehrhardt, April 2023

Introducing the Renewable Islands Index

We asked governments, utilities, and regulators from 32 Caribbean jurisdictions questions on the state of renewable energy in the Caribbean, focusing on four subcategories:

1. Renewable energy generation

2. Enabling environment

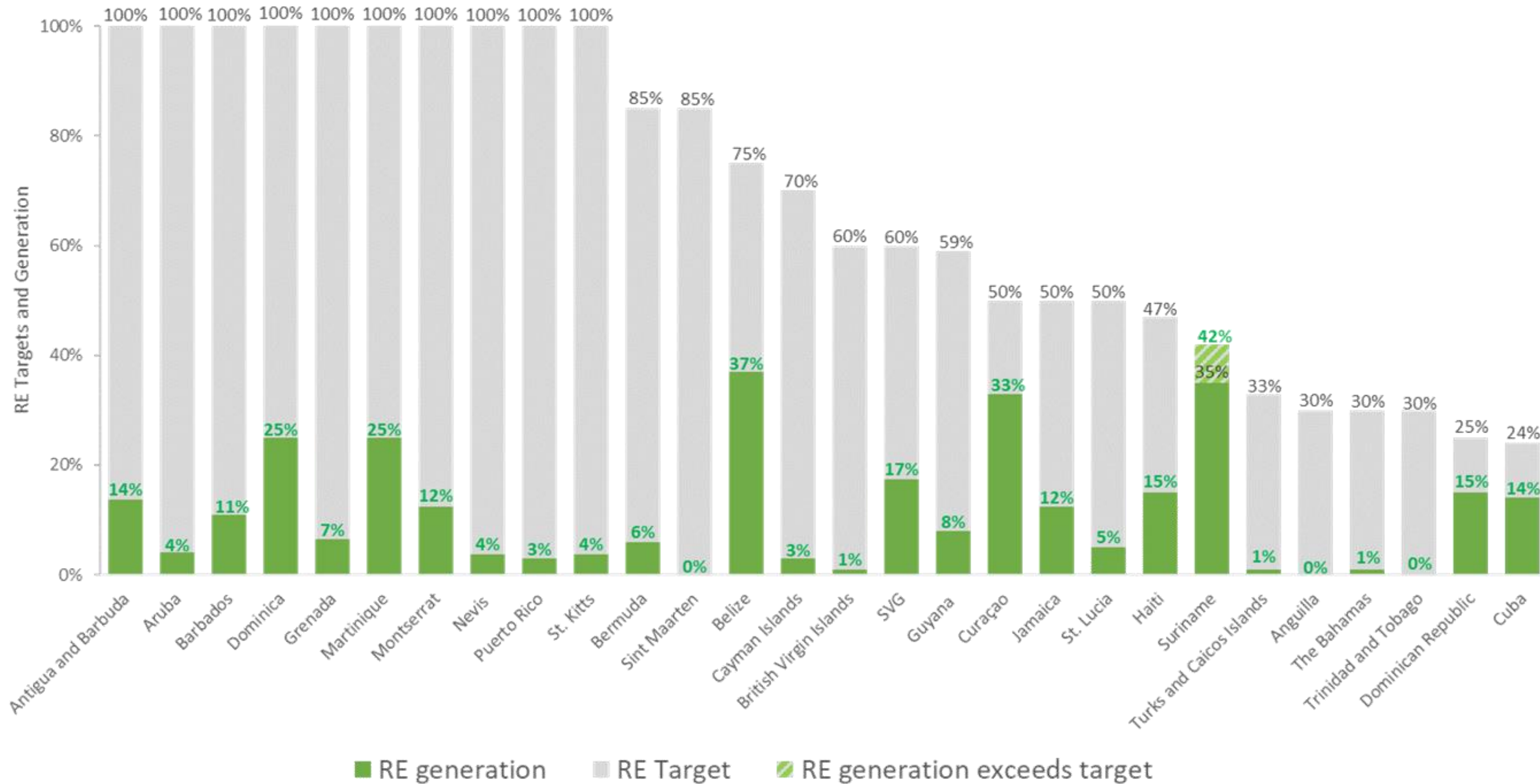
3. System planning

4. Distributed generation

 = Survey respondent

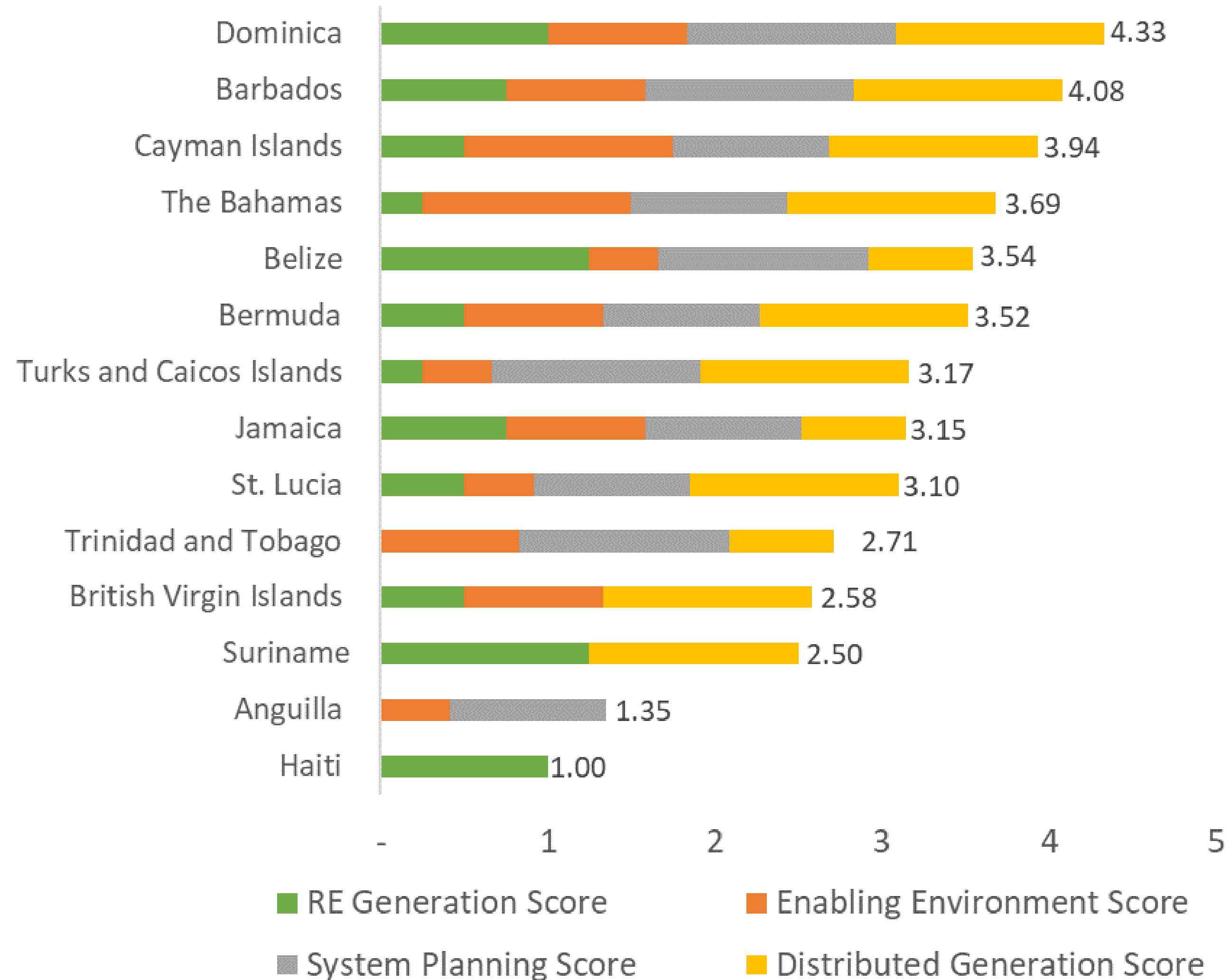


Renewable generation targets and performance



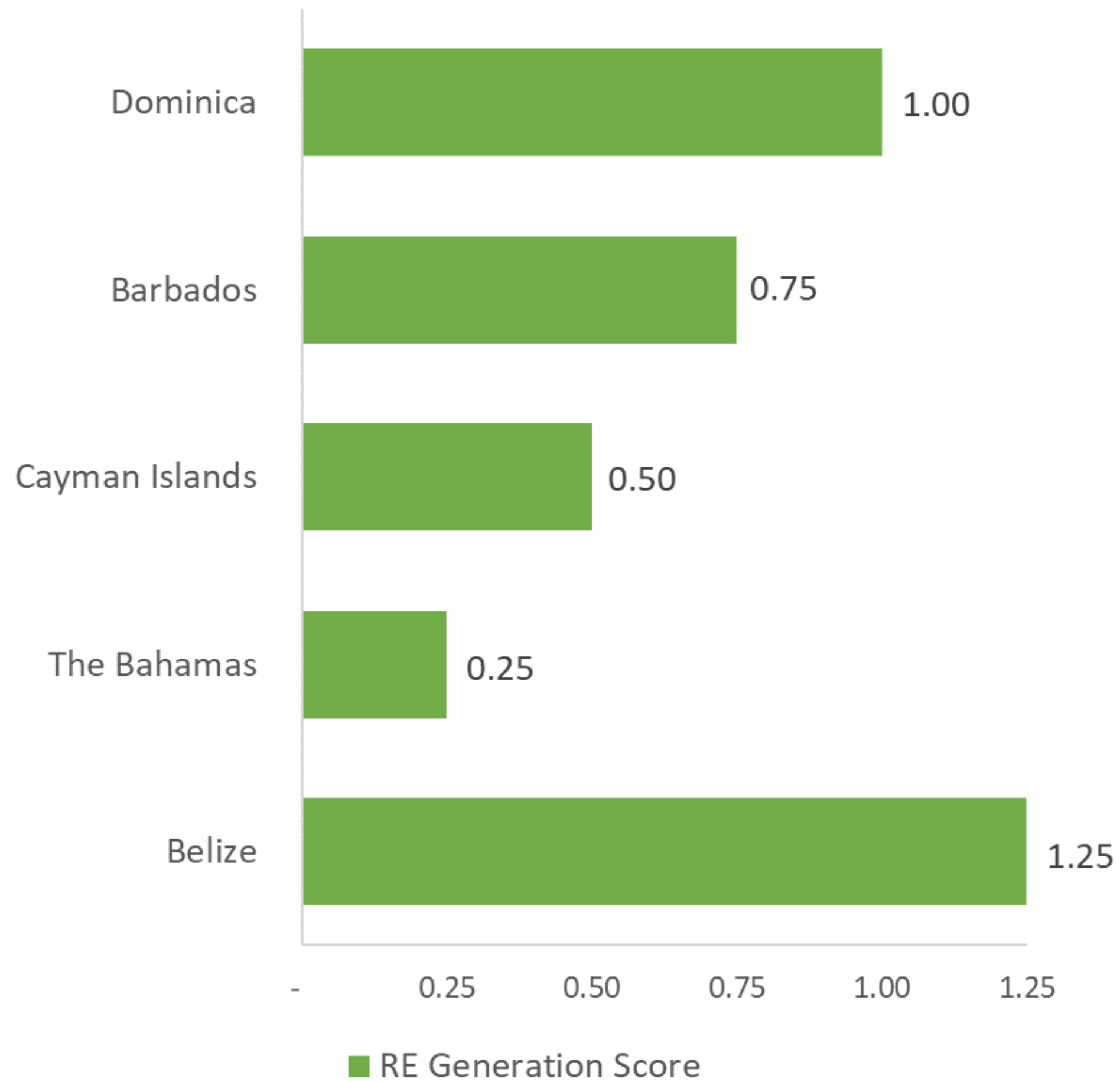
Note: Target years vary by country. The renewable energy share represents values for 2022. In cases where 2022 values were not publicly available or shared through the survey, the most recent available data was used.

Dominica tops the Caribbean Renewable Islands Index for 2022



Max score by category is 1.25.
Max total score is 5.
All categories are weighted equally.

Renewable Energy Generation



Hydropower accounts for 25% of generation

Solar accounts for 11% of generation

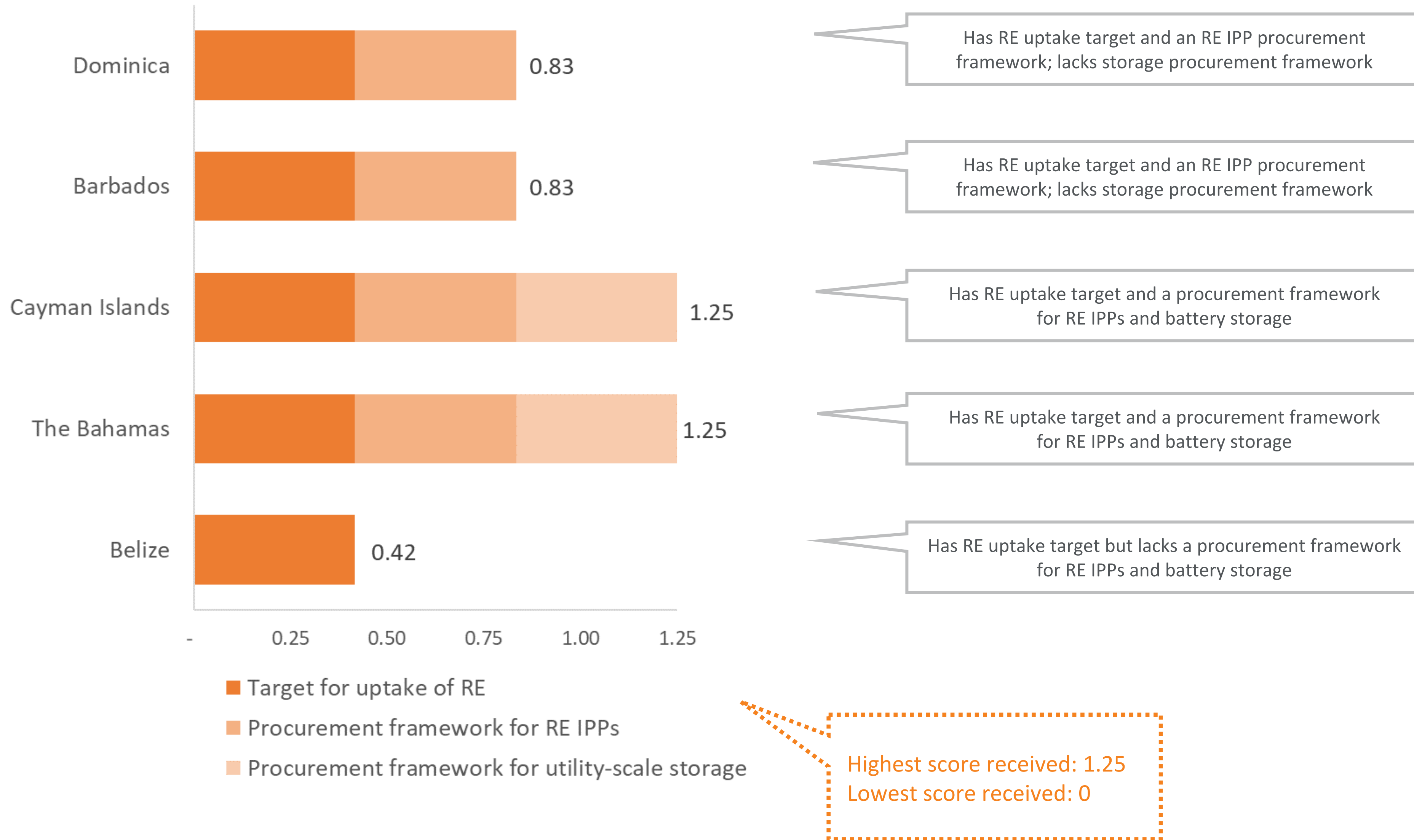
Solar accounts for 3% of generation

Solar accounts for 1% of generation

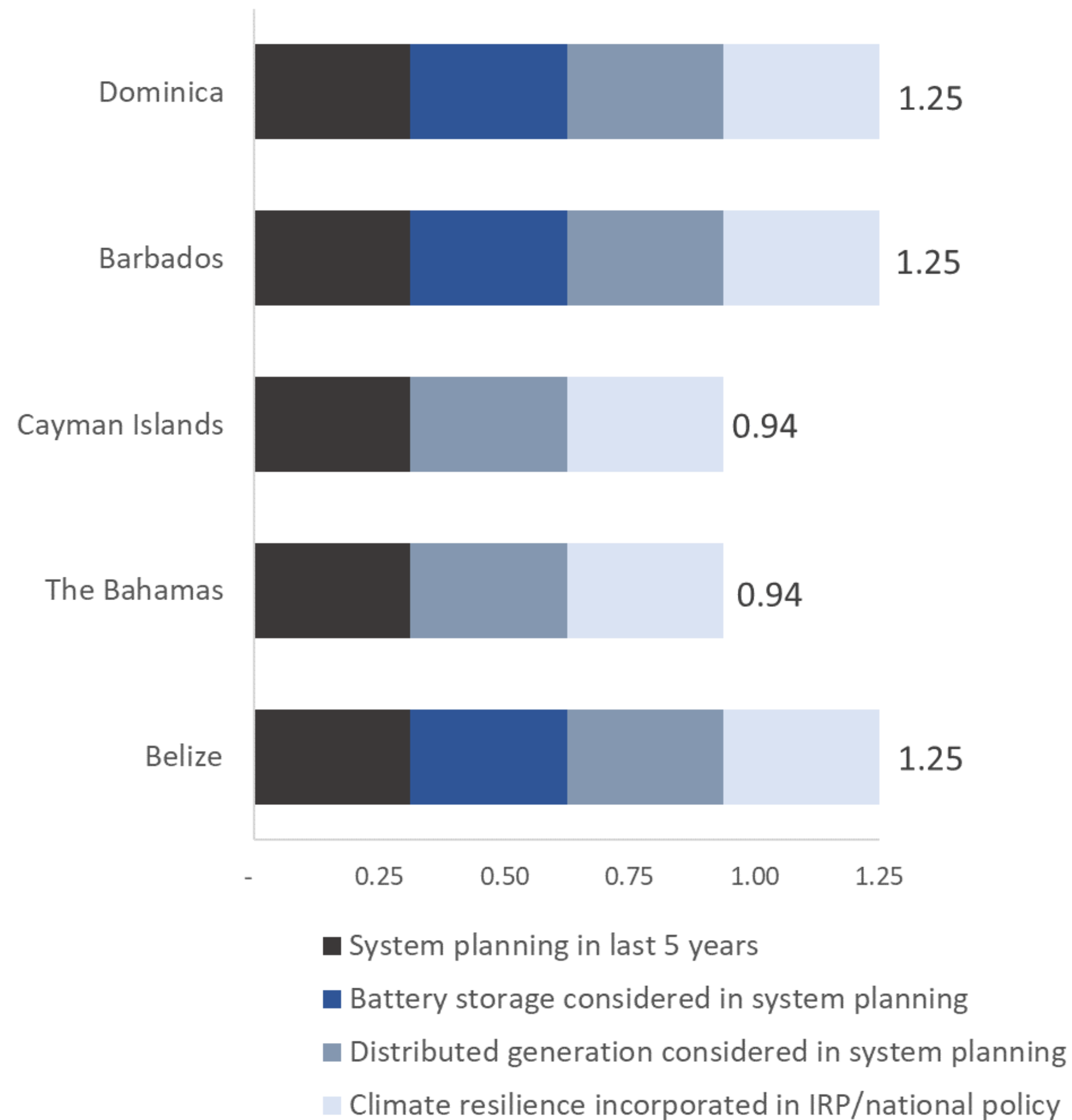
Hydropower accounts for 22% of generation and biomass accounts for 15% of generation

Highest score received: 1.25
Lowest score received: 0

Enabling Environment



System Planning



System plans consider distributed generation, battery storage, and resilience

IRP considers distributed generation, battery storage, and resilience

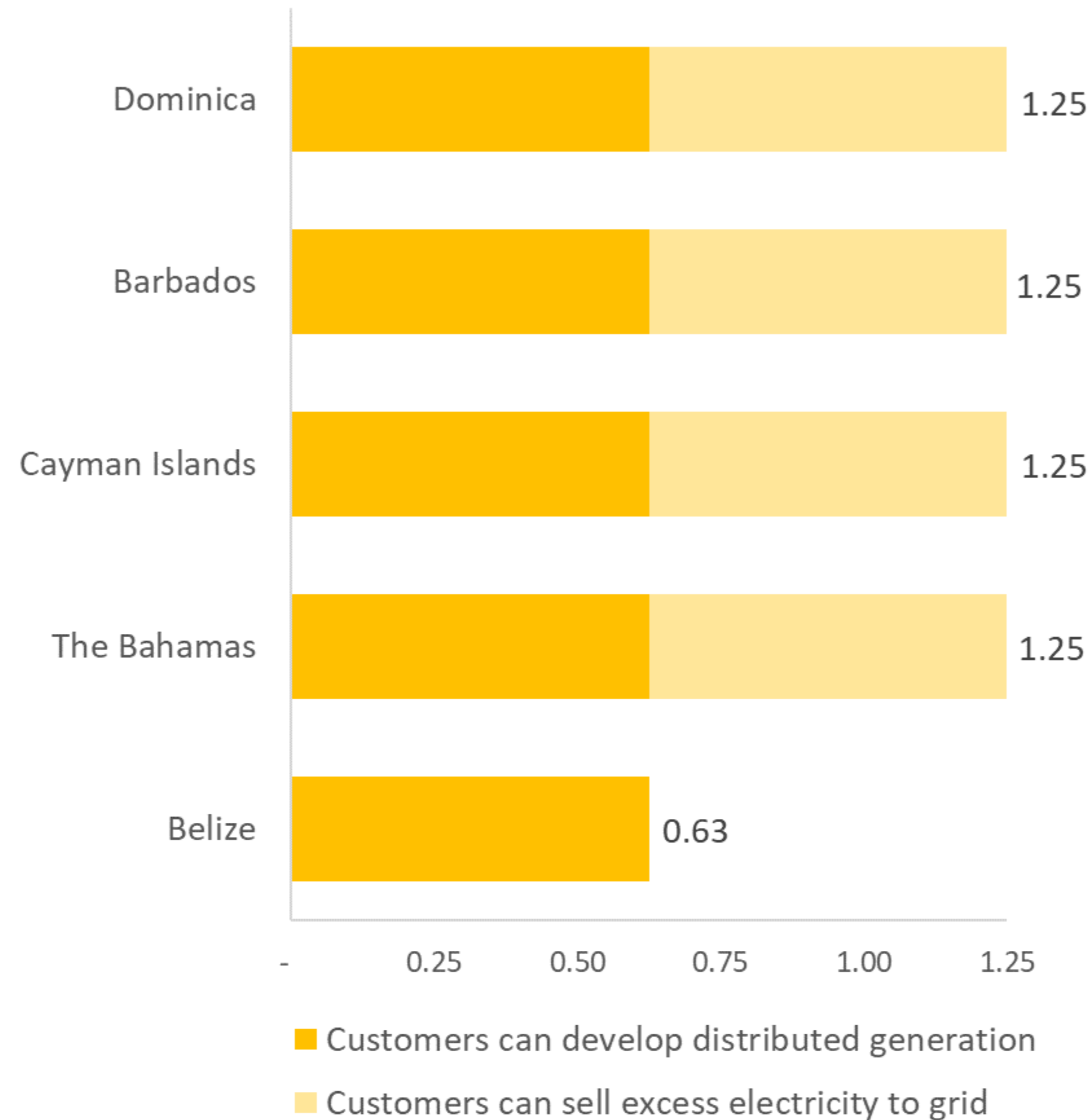
IRP considers distributed generation, battery storage, and resilience, but more than 5 years old

IRP considers battery storage but not distributed generation; NEP considers climate resilience

IRP considers distributed generation, battery storage, and resilience

Highest score received: 1.25
Lowest score received: 0

Distributed Generation



Has interconnection regulations and customers can sell excess electricity to grid

Framework includes large-scale (up to 10MW)

Customers can sell excess electricity to the grid

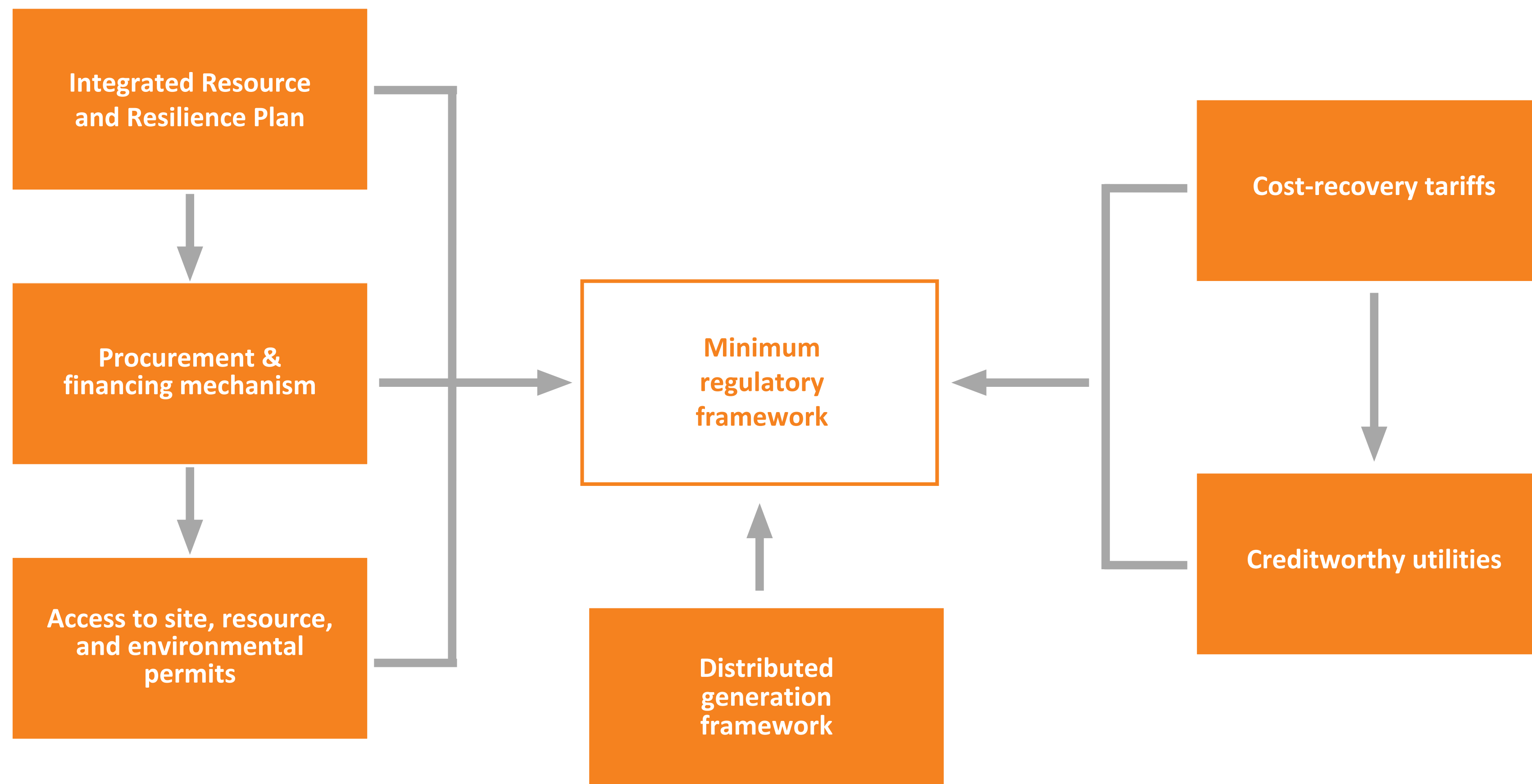
Capacity restrictions differentiated by island

Customers cannot sell excess electricity to the grid

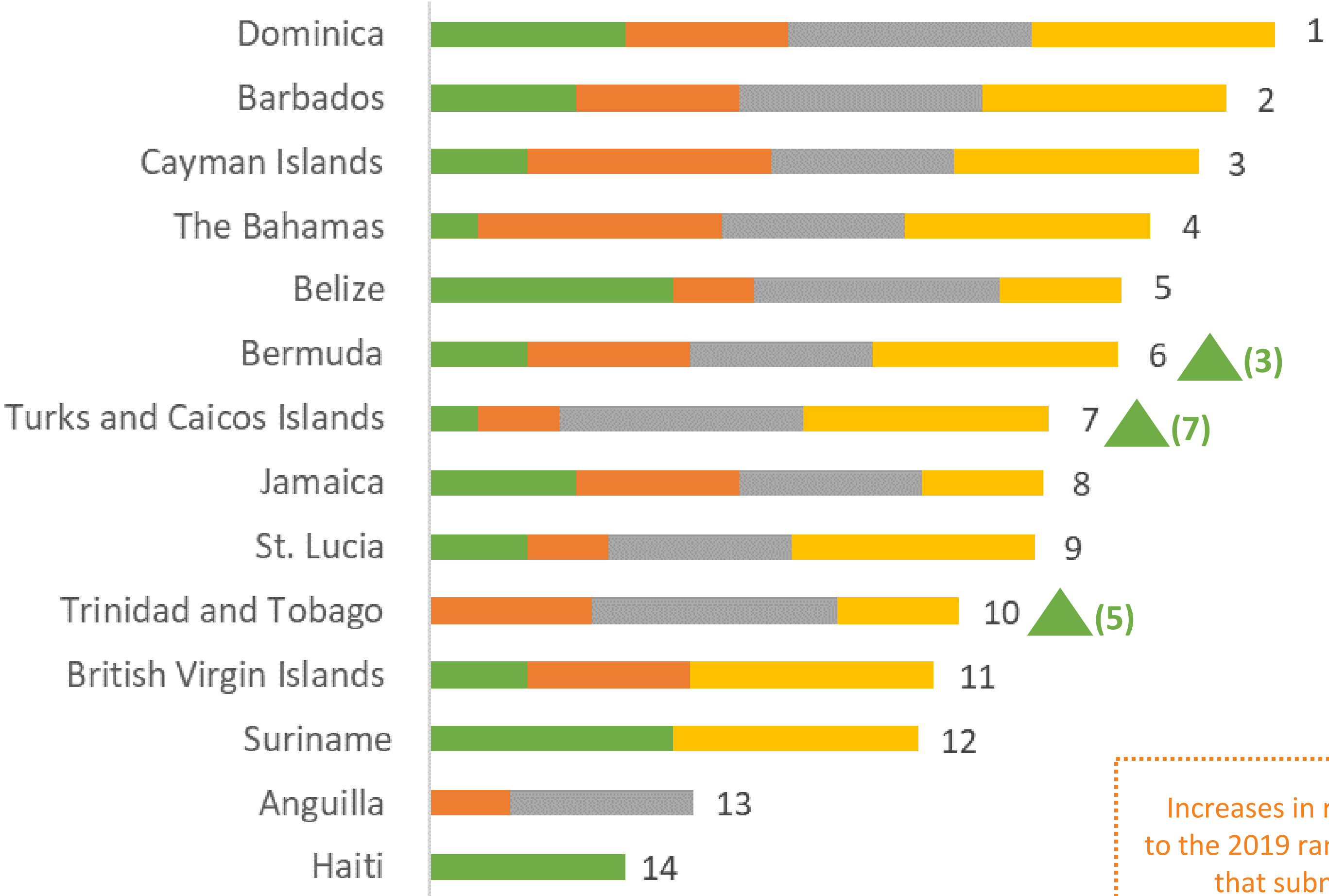
Highest score received: 1.25
Lowest score received: 0

The Need for a Minimum Regulatory Framework

Definition: The minimum set of regulatory mechanisms needed to enable sustainable, resilient electricity systems



Celebrating the 3 biggest increases in rank



Increases in rank are compared to the 2019 ranking of jurisdictions that submitted a survey

The background features a dark teal field filled with numerous glowing bokeh spots of varying sizes and brightness. A large, solid orange triangle is positioned on the right side of the image, pointing towards the top right corner.

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