



CCREEE

CARIBBEAN CENTRE FOR RENEWABLE
ENERGY & ENERGY EFFICIENCY

AN INSTITUTION OF



CARICOM

Regional Sustainable Energy Landscape: Key Trends

Caribbean Centre for Renewable Energy and Energy Efficiency

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What makes up the energy sector?

- In the Caribbean context:
 - Power Generation
 - Transportation
 - Industrial
 - Other
- The energy system is integrally connected with:
 - Other Infrastructure Systems
 - Critical Sectors



Where are we now?

- Energy consumption in the Caribbean is growing
- Dependent on imported fossil fuels for both electricity generation and transportation
- Total capacity: 6,526 MW (2018)

Fossil-fuel based capacity: 82%

Renewable energy capacity: 18%

CARICOM Energy Report Card (CCREEE, 2018)



What's wrong with this path?



Dependence on fossil fuels causes vulnerabilities rooted in:

- Volatile oil prices
- High costs
- Limited climate resilience
- Carbon intensive development



Deficiencies of our current energy infrastructure:

- Insufficient and aging infrastructure
- Low service quality
- Inefficiency
- Isolated grids



What is the solution?

- We need energy systems that promote:



AFFORDABILITY



SUSTAINABILITY

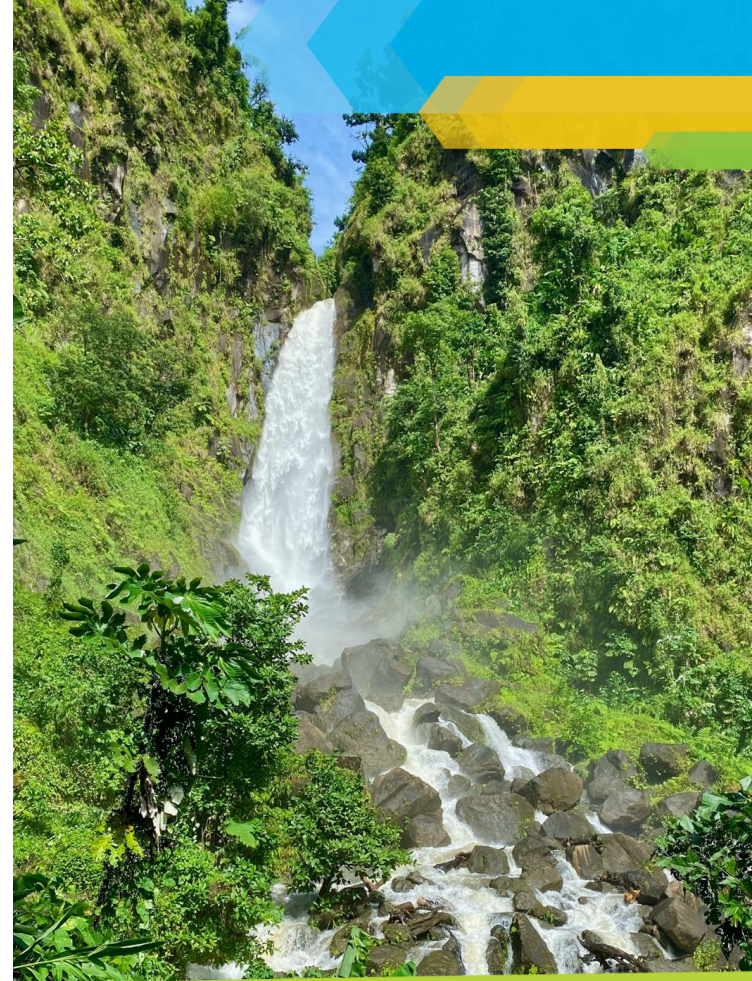


SECURITY



What is the solution?

- The Caribbean region has an abundance of renewable energy resources
 - Hydropower
 - Wind
 - Solar
 - Geothermal
 - Ocean wave and tidal
- Energy efficiency has the potential to capture quick, low cost wins



Where do we need to be?

Installed renewable energy power capacity:

- 28% by 2022
- 47% by 2027

Reduction in energy intensity:

- 33% by 2027

Reduction in carbon dioxide emissions:

- 32% by 2022
- 46% by 2027

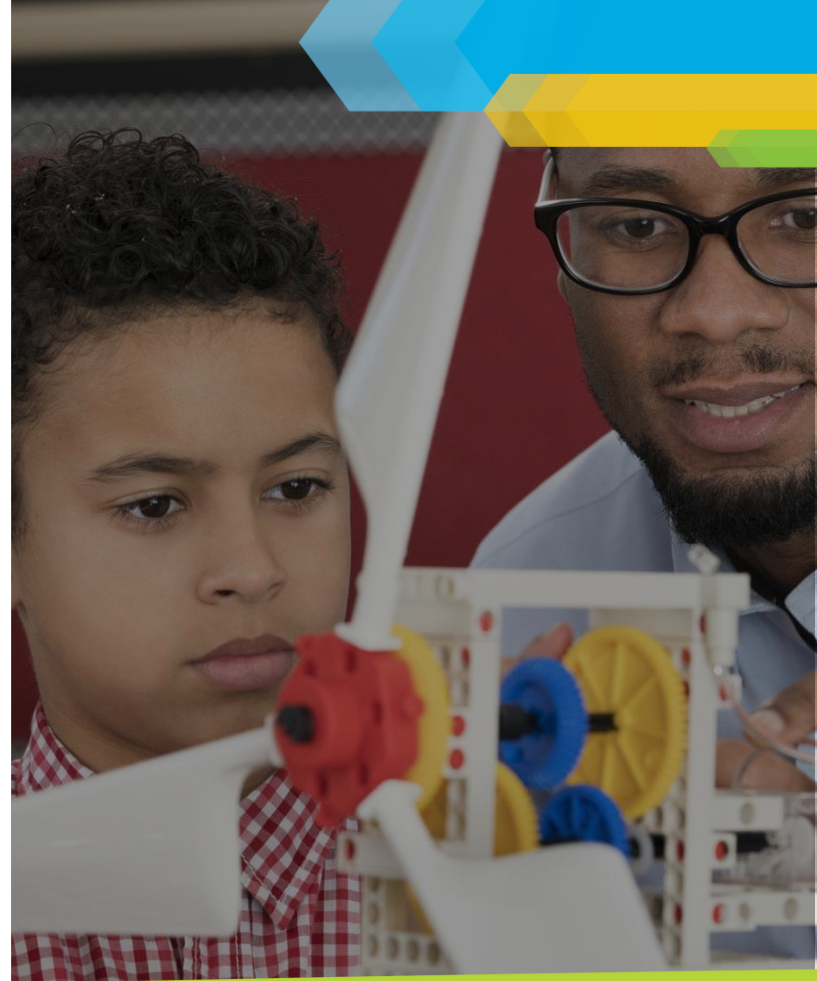
C-SERMS Baseline Report and Assessment (CARICOM, 2015)



What progress has been made?

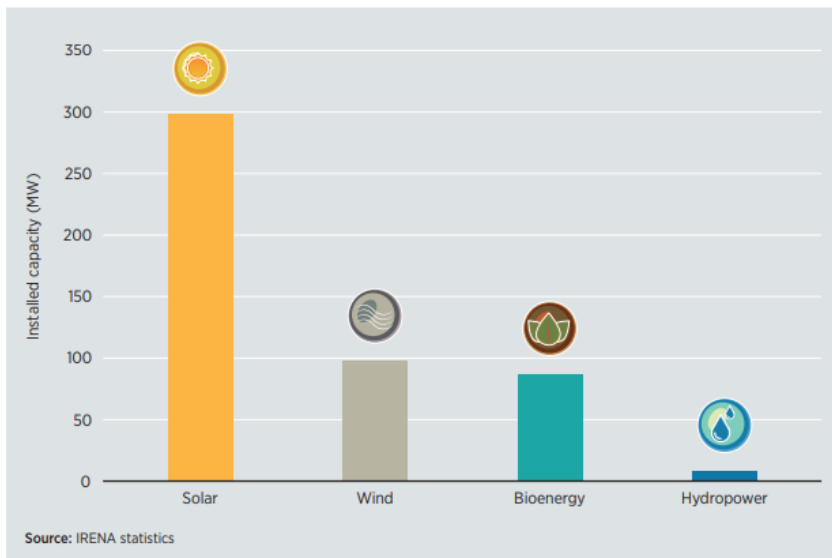
- In 2018 most member states had:
 - Finalized energy policies or action plans
 - Renewable energy targets
 - Sustainable transportation targets
 - Carbon dioxide emissions reduction targets
- Lack of energy efficiency targets
- Need to strengthen regulatory and legislative framework
- Insufficient monitoring and data collection

CARICOM Energy Report Card (CCREEE, 2018)

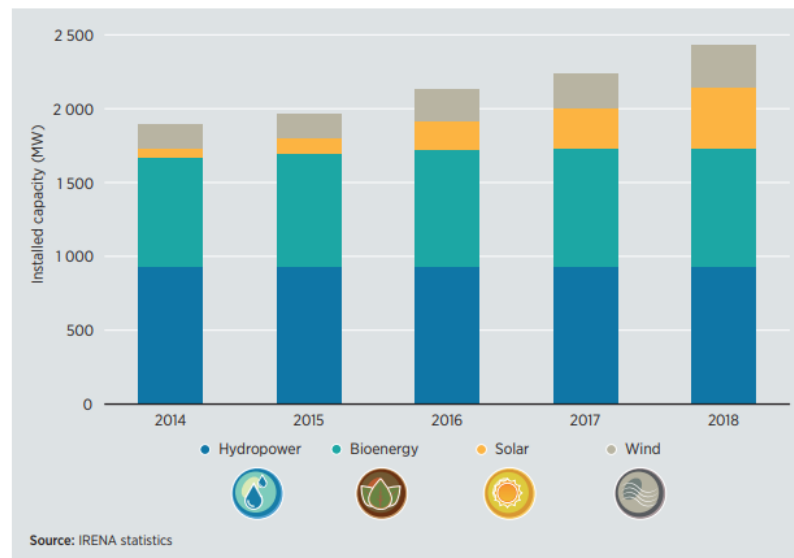


What progress has been made?

New Renewable Energy Installed 2014-2018



Total Renewable Energy Installed 2014-2018



SIDS Lighthouse Initiative (IRENA, 2019)

What is the way forward?



Accelerate Implementation

- Long-term strategic planning
- Regional synergy
- Cross sectoral efforts



Bridge Major Gaps

- Policy and regulation
- Technical expertise
- Contextual data and research



Sustainable Energy Financing

- Increase access to finance
- Project preparation support

Thank You!

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