



# IRENA at 10

## Post Paris Transitions and Energy Diplomacy Beyond OPEC and the Energy Charter Treaty

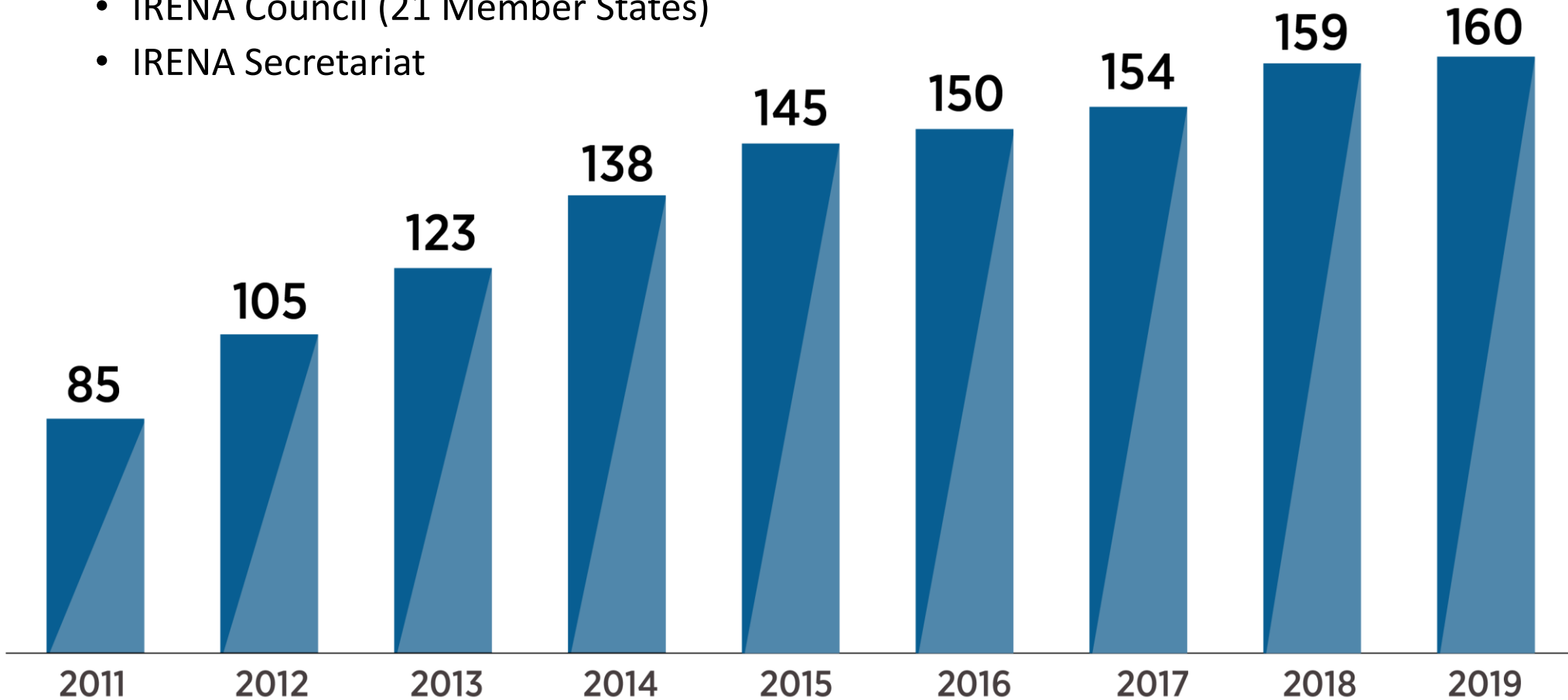
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- IRENA Initiative (April 2008) → IRENA Statute (January 2009)
- 160 countries signatories
- Organization
  - IRENA Assembly
  - IRENA Council (21 Member States)
  - IRENA Secretariat



# IRENA Statute (2009)

- Adoption of renewables with view of sustainable development
- View of renewables as offering energy security and price stability
- Reduction in greenhouse gas emissions
- Decentralization of energy access for poor, rural and developing areas
- Concern of negative implications of fossil fuels and the inefficient use of traditional biomass on health
- Energy efficiency for global energy needs
- International organization for cooperation and collaboration

# IRENA HQ

The UAE's highest Estidama\* design and construction rating to date

IRENA HQ has won:

Sustainable Construction Project of the Year, BGreen Awards 2014

Green Project of the Year, Big Project Awards 2014

Green Building of the Year - Commercial, EGBC Awards 2015

The 1,000m<sup>2</sup> solar PV rooftop system produces **305,000 kWh** of electricity per year

Solar water heater system produces heat equivalent to **27,850 kWh** of electricity per year

**75%** of the heat energy in the exhaust air is recovered by the air conditioning system

Up to **95%** of energy generated from lowering elevators is harnessed and reused throughout the building

Requires **50%** less water than typical buildings in Abu Dhabi

**75%** of the building's hot water demand is supplied by solar water heaters

Uses **64%** less energy than typical buildings in Abu Dhabi

Uses **42%** less energy than global energy-efficiency standards

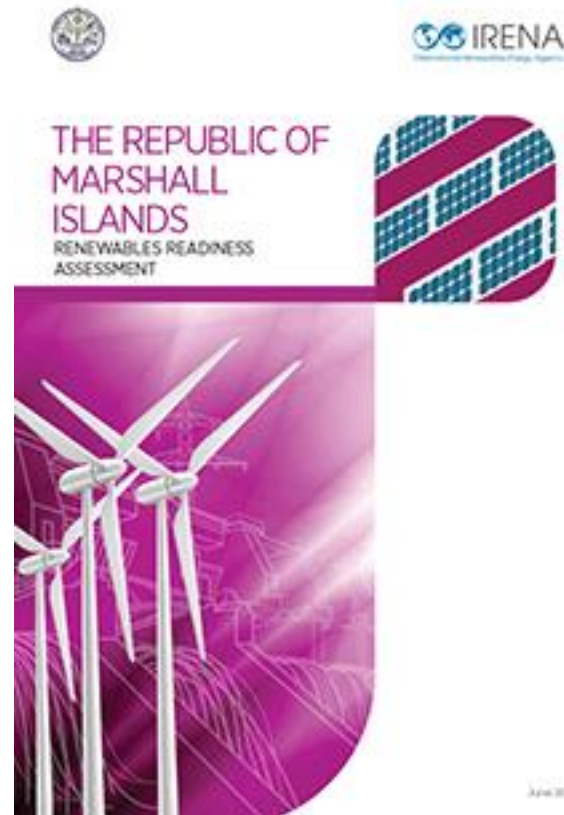
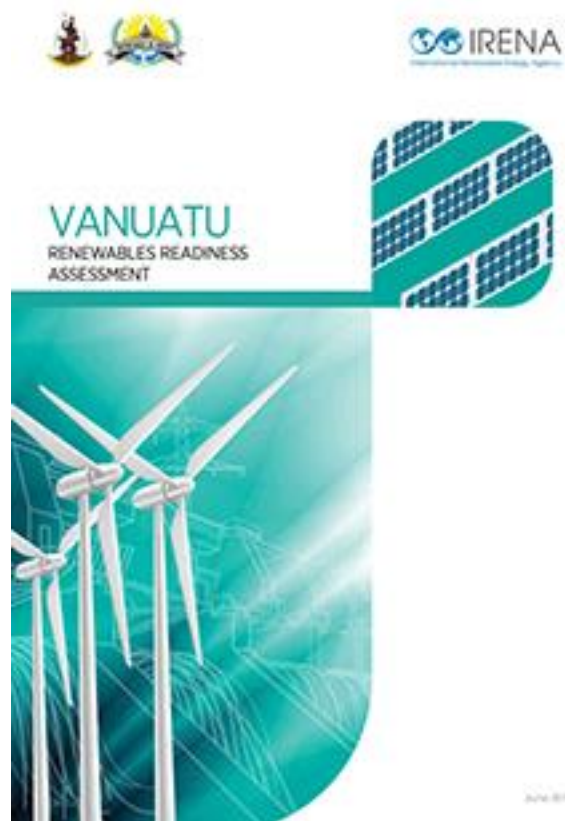
Features charging stations for **26** electric vehicles

## IRENA - An Integral Part of Masdar City's Ecosystem

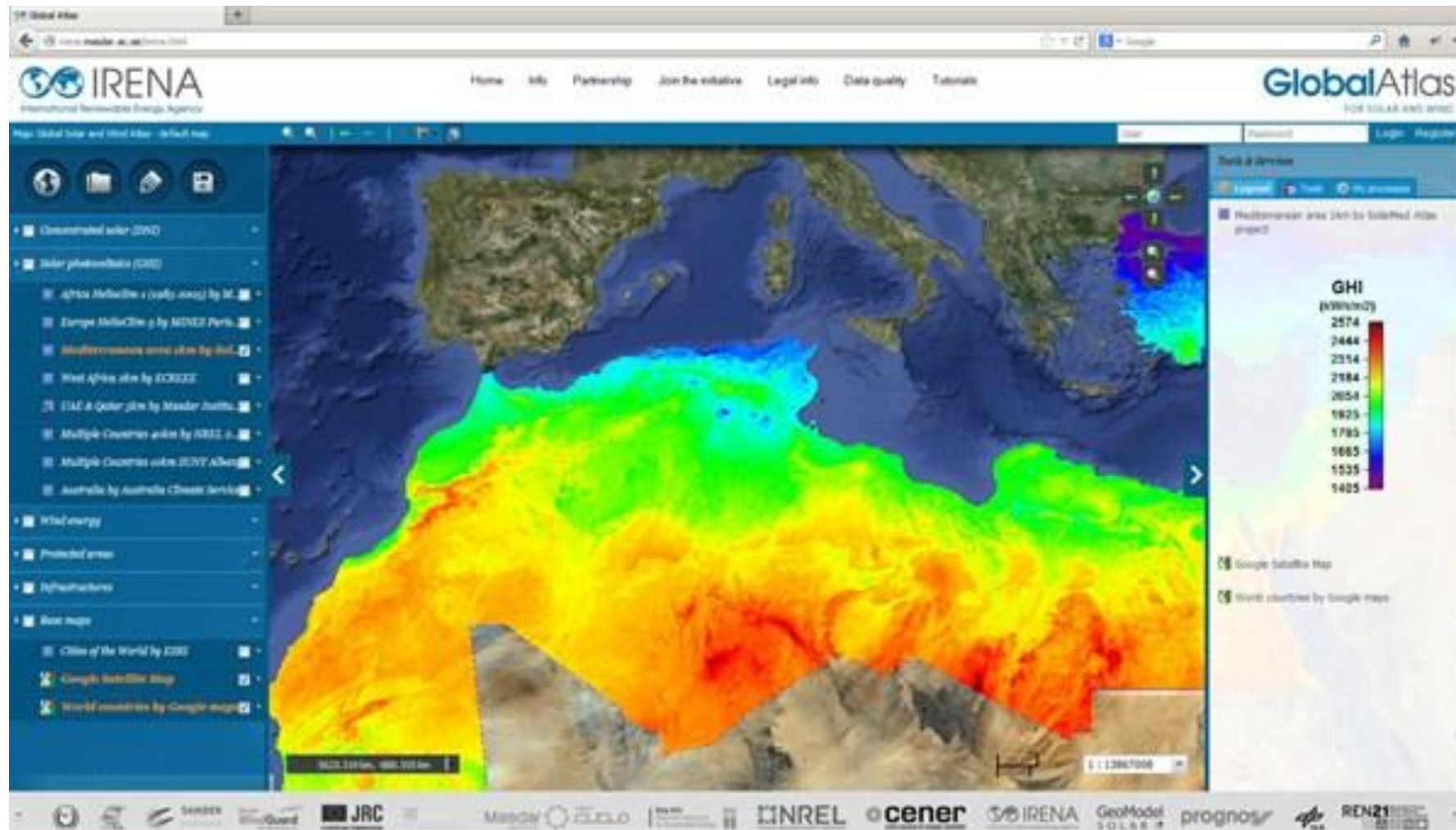


\*Estidama is a rating building standard launched by Abu Dhabi Urban Planning Council to assess the sustainability standards of a building

# Renewables Readiness Assessment



# Global Atlas App



# Paris Agreement (COP21)



# OPEC concerns

- Founded in 1960 with 14 Member States
- Cost parity of renewables tipping to outperforming the markets.
- Climate change
- Food insecurity
- Labor disruptions
- Terrorism
- Natural disasters
- Peak oil time horizon





# Energy Transitions

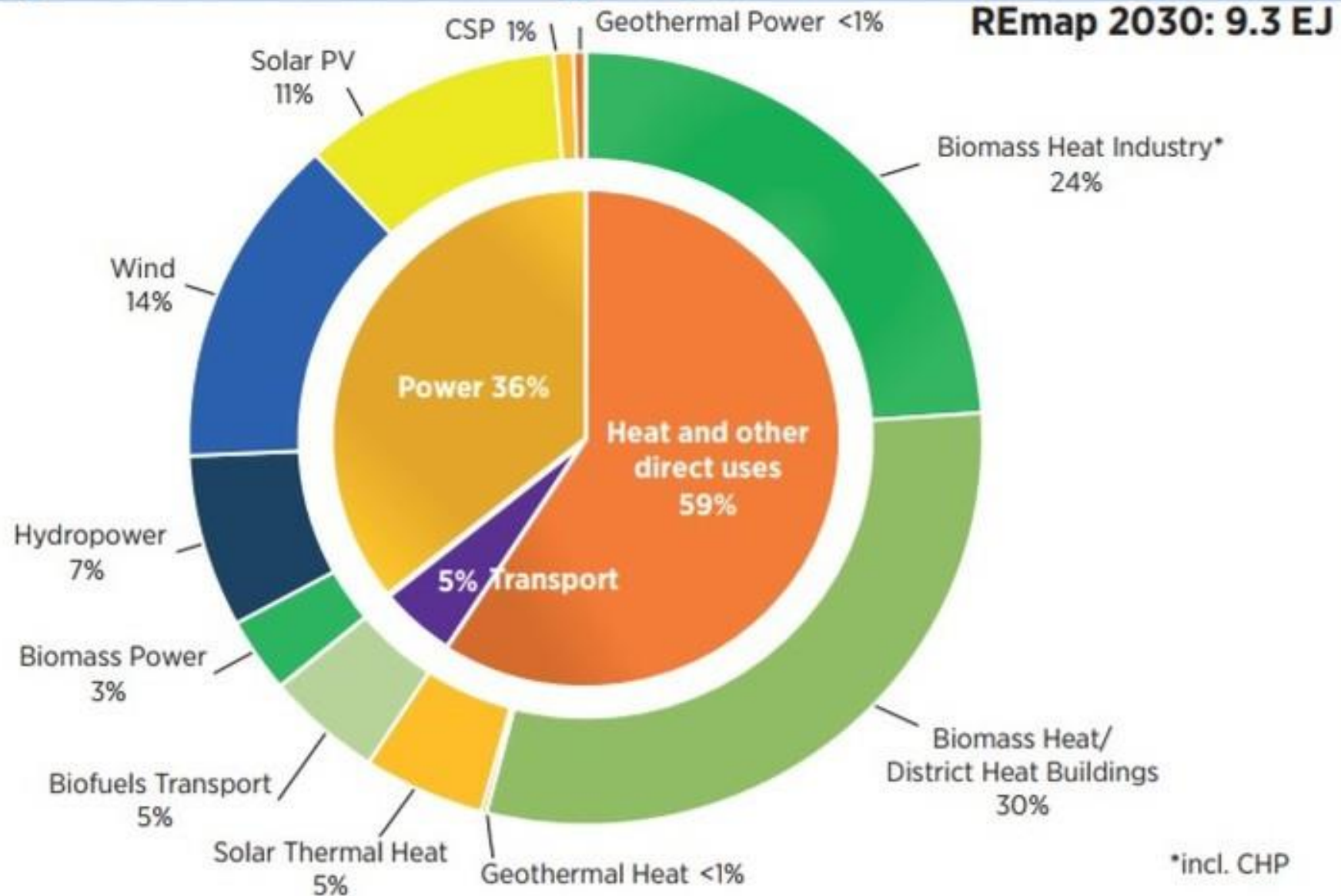
- IRENA as an epistemic institution
- MASDAR
- IRENA REMap 2030

# Energy Charter Treaty

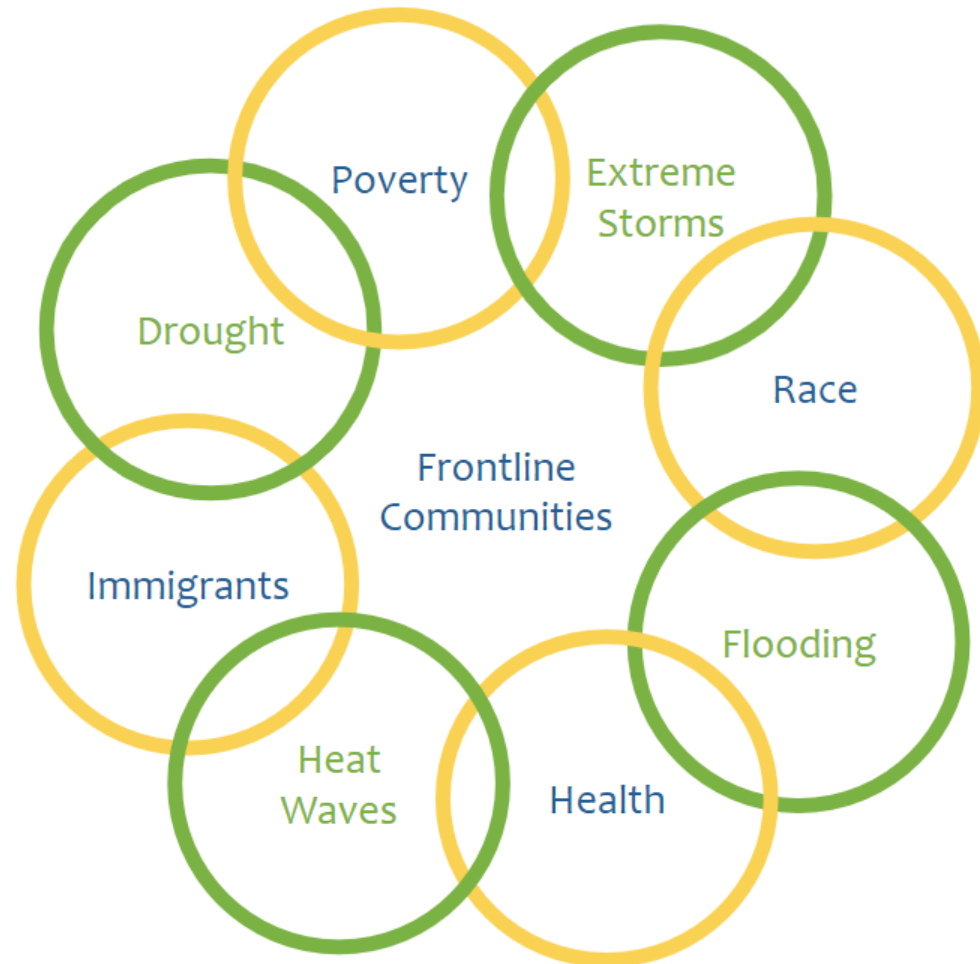
- “The One Treaty to Rule Them All”
- Minimizes effective investor-host country dispute resolution
- Limits climate action
- Locks countries into climate wrecking fossil fuels
- Attracted little attention and remains largely unknown



Figure 5: Breakdown of renewable energy use by application and sector in REmap in 2030



# Climate Equity



# Small Island Developing States

