# ENERGY IMPORT SITUATION, CARICOM [2021]

100% (2019) Refined petroleum products

98% (2019) Refined petroleum products

87% (2019) Refined petroleum products

95% (2019) Refined petroleum products

Petroleum exported,

products imported

Less than 5% (2021) Petroleum

0% (2021)

and refined petroleum

Country	Dependence on in	nports, %	Imported energy resources
Antigua and Barbuda		100% (2019)	Refined petroleum products
Barbados		90% (2019)	Small amounts of petroleum exported, and refined petroleum products imported, LNG
Belize	CARICOM Average	63% (2019)	Refined petroleum products, electricity
Dominica	87%	92% (2019)	Refined petroleum products
Grenada			Refined petroleum products
Guyana	Global Average 21%	0% (2021)	Petroleum exported, and refined petroleum products imported
Haiti			Refined petroleum products
Jamaica		91% (2021)	Petroleum, Refined petroleum products, LNG

**Montserrat** 

**Saint Lucia** 

**Suriname** 

St. Kitts and Nevis

**Trinidad and Tobago** 

St. Vincent and the Grenadines

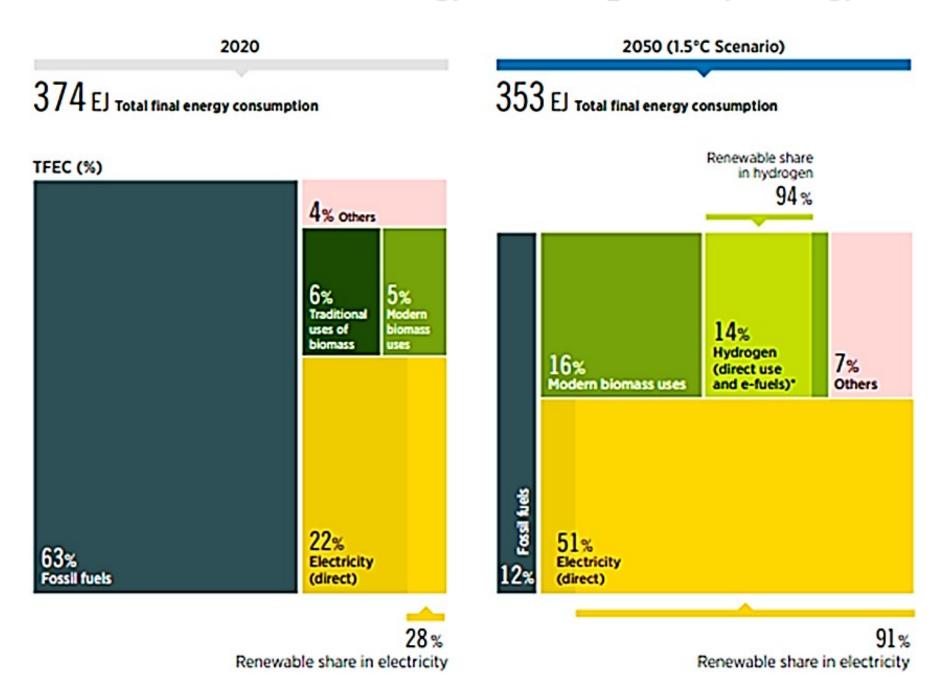
# **ENERGY SYSTEM PILLARS**

**Energy Security** 

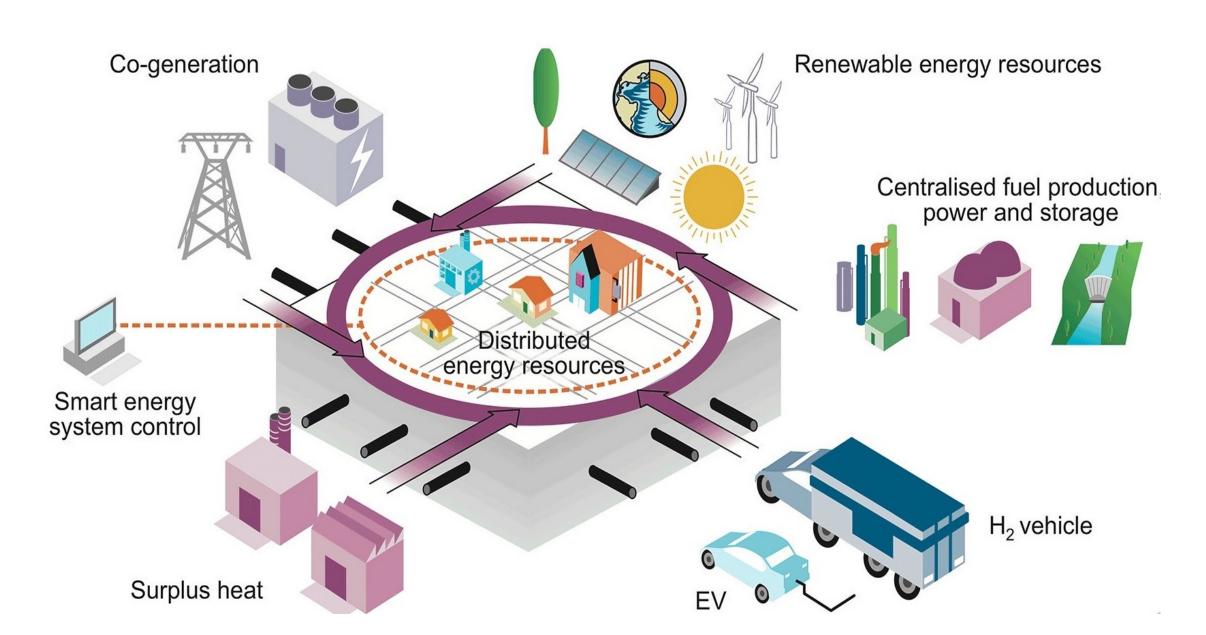
Clean Energy

Affordable Energy Reliable Energy

### Breakdown of total final energy consumption by energy carrier



# THE FUTURE ELECTRIC GRID



#### SECTOR COUPLING

Generation de de de de de de de Distribution **Power** Sector coupling Transmission system flexibility Electric vehicles Storage Demand-side management

The development of energy as an economic sector, in its own right

- Clear and present opportunities for electrification in the heating sector and electrification within the transport sector.
- Power-to-Gas systems that convert renewable electricity into hydrogen by electrolysis.
  - Chemical processes could change molecular hydrogen into to green fuels such as ammonia, methane, "quasi" natural gas, or even liquid energy carriers such as methanol.

# STRENGTHENING THE NEXUS: CLIMATE, ENERGY & ICT

#### ANTHROPOGENIC CLIMATE CHANGE

- Temperature Rise
- Sea-level Rise
- Meteorological Shifts
- Precipitation Change



# IMPACTS ON HUMAN & NATURAL SYSTEMS

- Food & Water Resources
- · Energy Resources
- Ecosystems & Biodiversity
- Built Environment





# GLOBAL & LOCAL POLLUTION

- Greenhouse Gas Emissions
- Local Pollutants



#### SOCIO-ECONOMIC DEVELOPMENT PATHWAYS

- Economic Growth
- Technology Deployment
- People
- Governance

# TRANSITION READINESS

