

# THE ENERGY TRANSFORMATION IS HAPPENING, BUT NEED TO ACCELERATE

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**Roland Roesch**

31 October 2019 • IRENA Think tank Roundtable • Singapore International Energy Week

# About IRENA

Established in 2011.

160 Members; 23 States in accession.

**Mandate:** to promote the **widespread adoption and sustainable use of all forms of renewable energy**

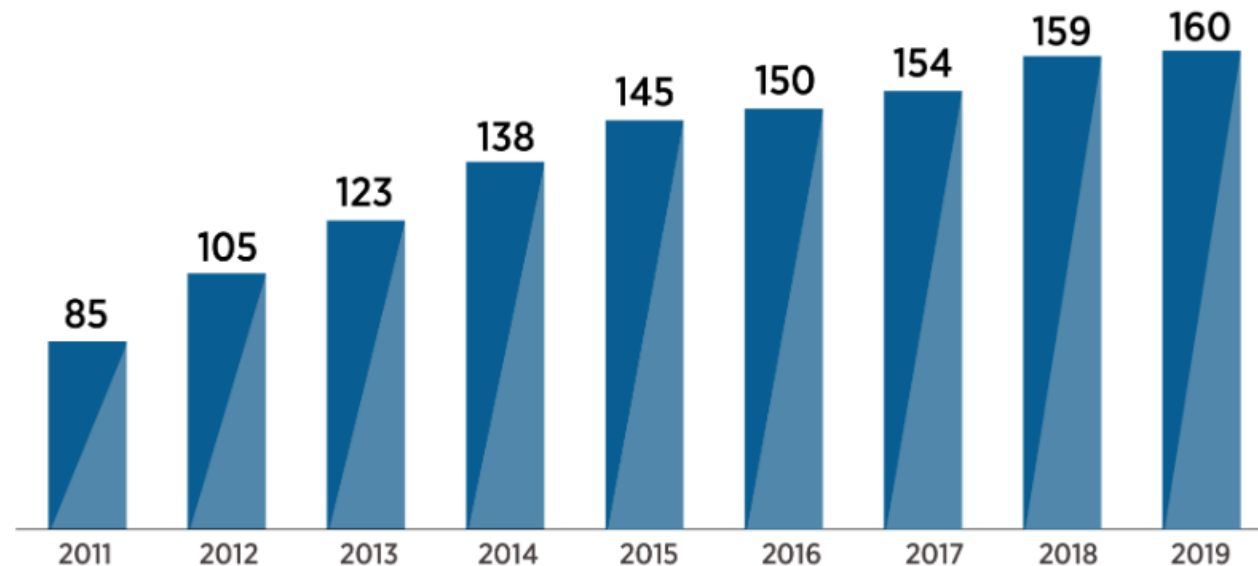
**Scope:** All renewable energy sources produced in a **sustainable manner**

**IRENA serves as:**

- Centre of excellence for knowledge and innovation
- Global voice of renewables
- Network hub
- Source of advice and support



Growth in IRENA Membership



## IRENA Offices



IRENA Headquarters

Masdar City  
PO Box 50011, Abu Dhabi

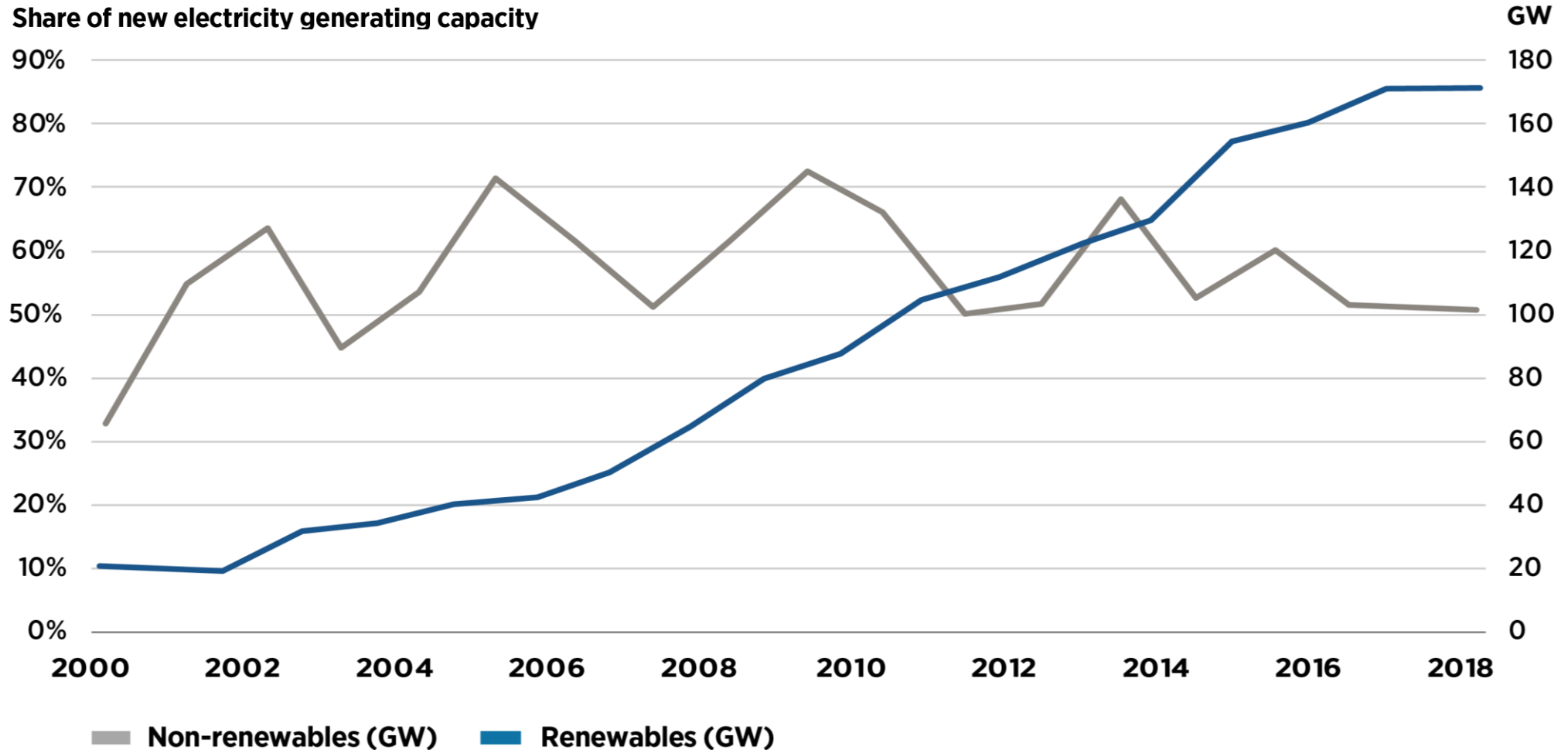


IRENA Innovation and Technology Center



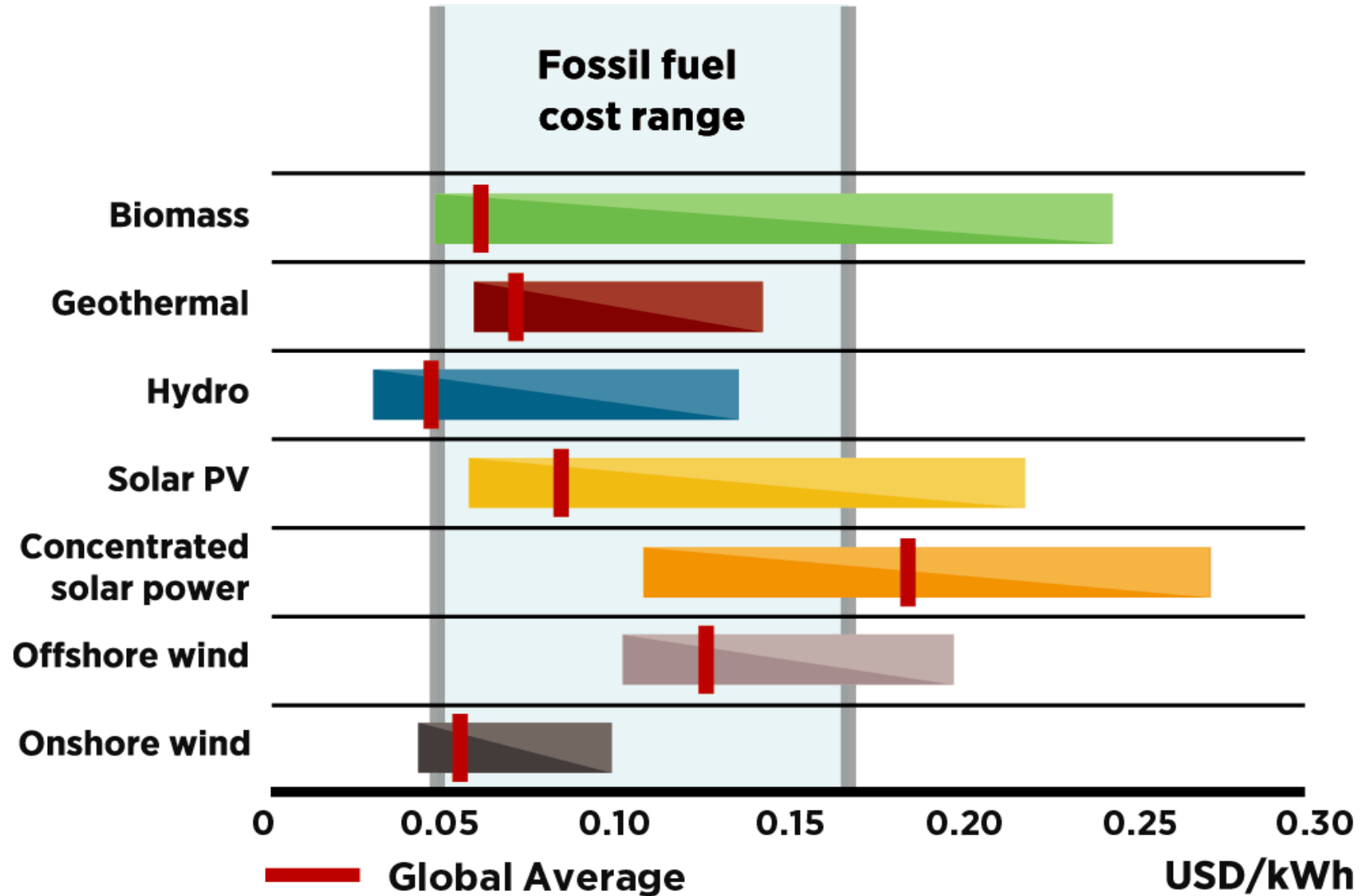
IRENA - Office of the Permanent Observer to the United Nations

# Renewable capacity additions are increasing...

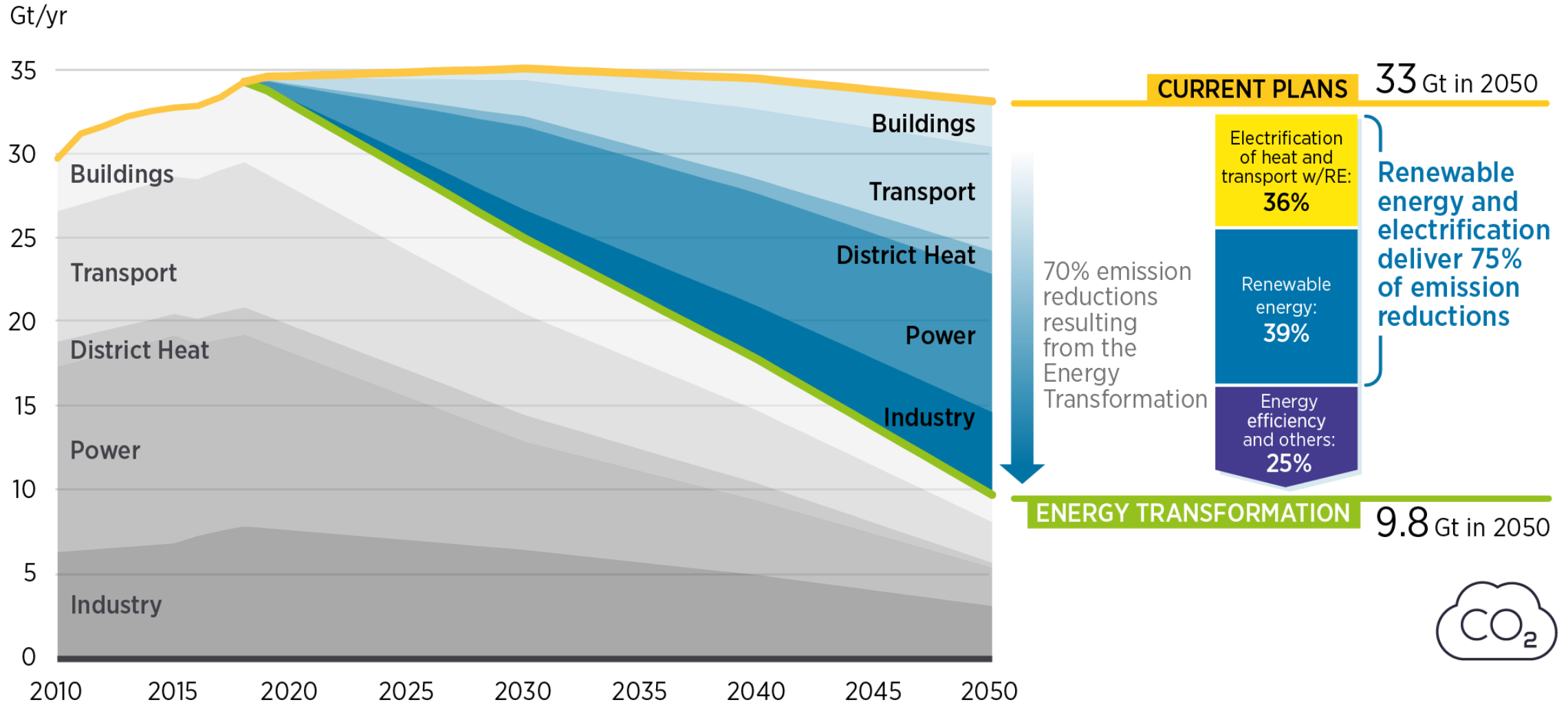


- For the 7<sup>th</sup> year, net additional power generation capacity of RE exceeded that of non-RE sources.
- A third of global power capacity is now based on renewable energy

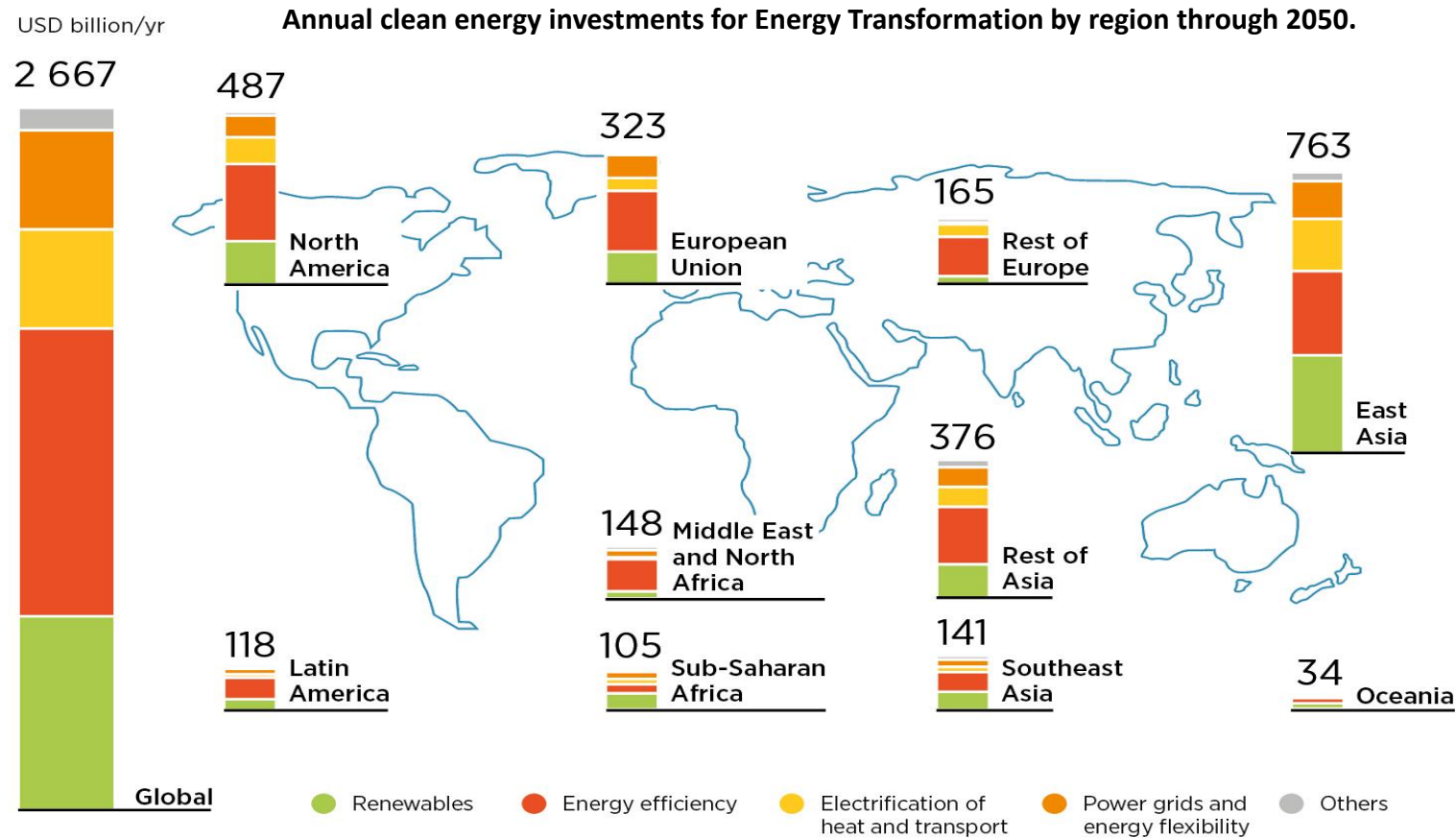
# From “luxury” to low-cost solution: The business case of renewables continues to strengthen



# A fundamental transformation of the energy system is needed to tackle climate change

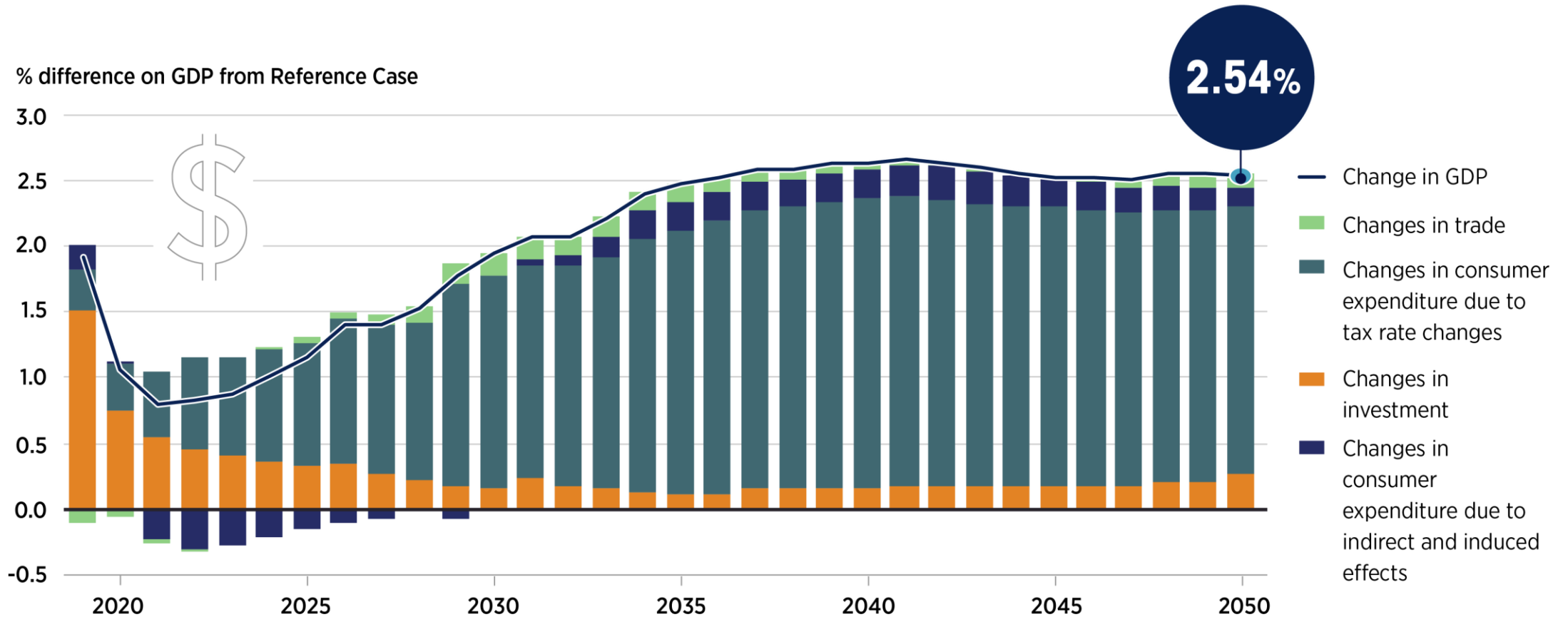


# which vary per region

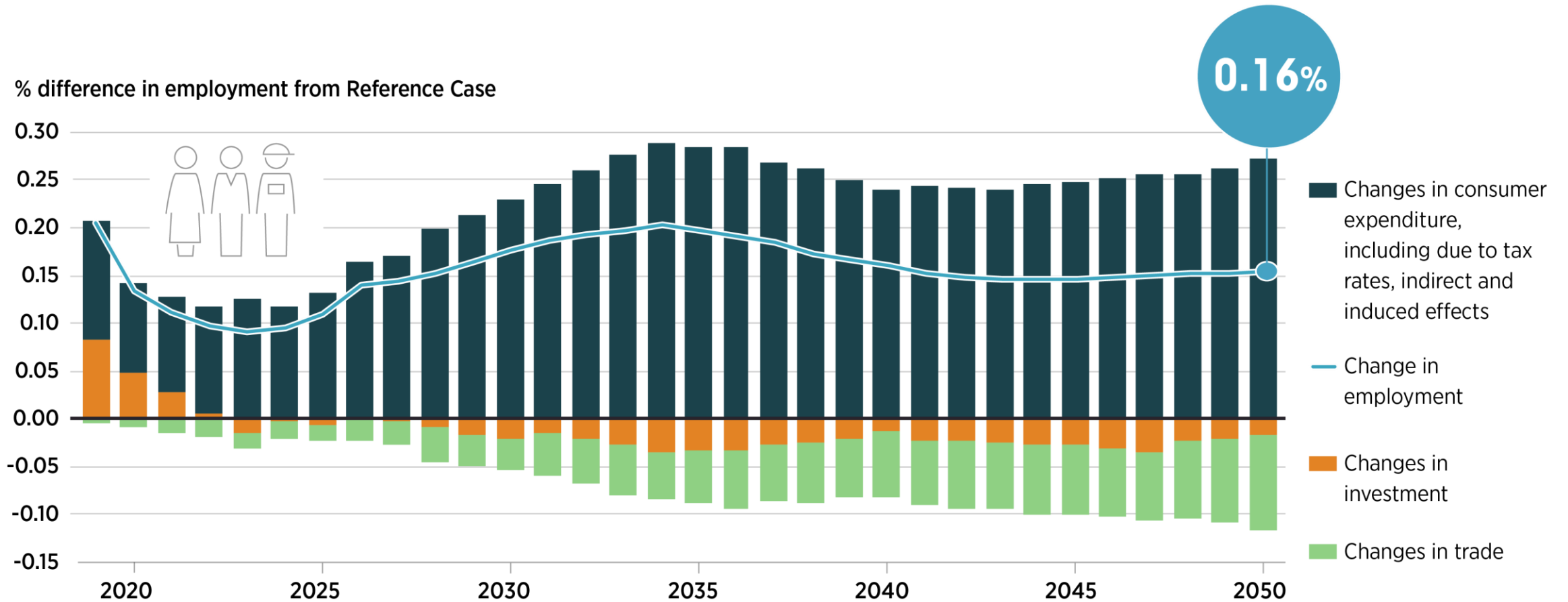


- East Asia accounts for the highest annual investment needs, at USD 763 billion by 2050
- Every dollar spent in the global energy transformation saves 3 to 7 USD.

# Such an energy transformation can foster economic growth...



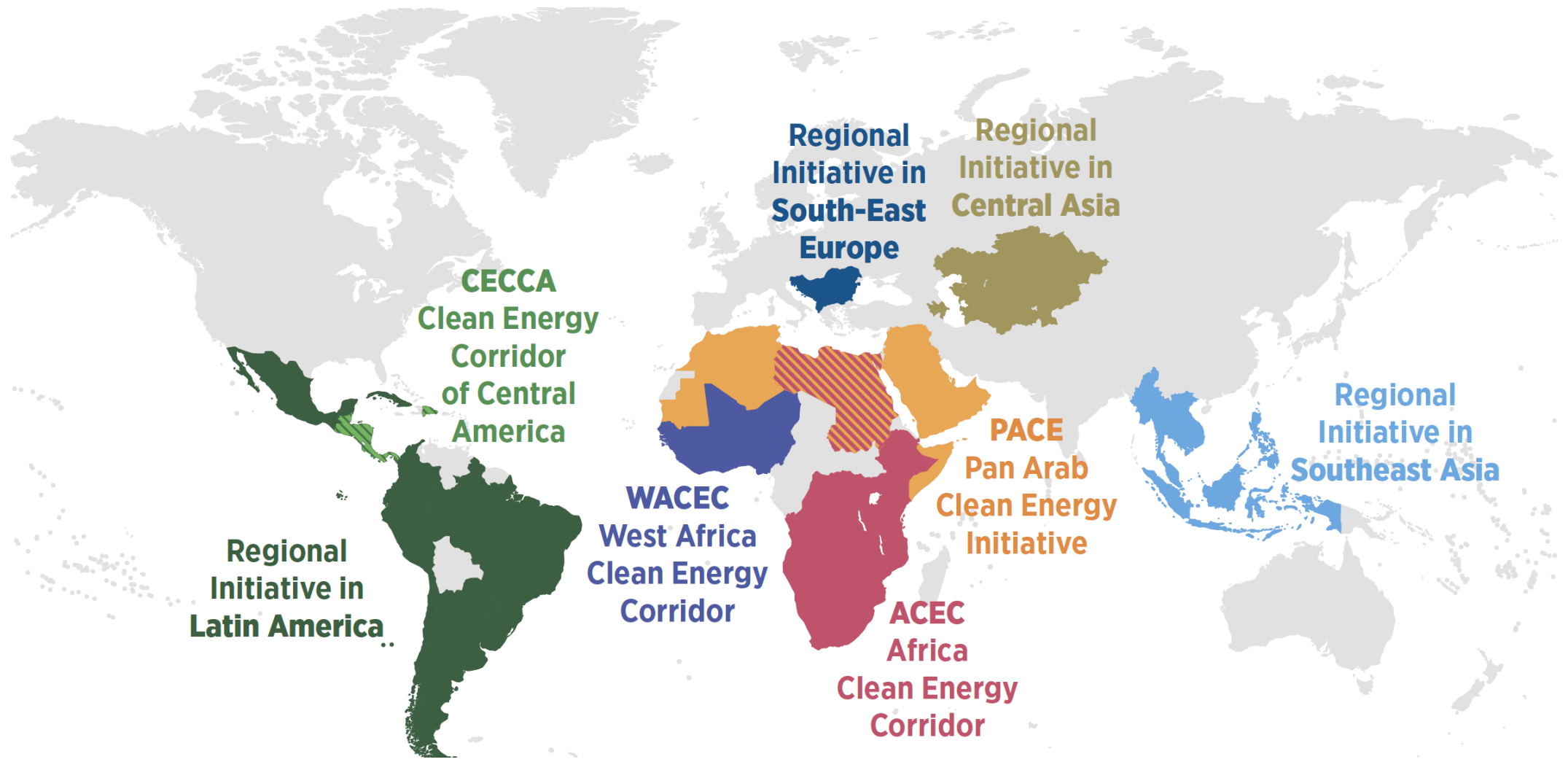
# ... create jobs and boost industries



- Global employment increases by 0.2% (7 million jobs) with the right policies. In 2050, half of the global jobs in renewables – 26.8 million – are expected to be in Asia and in East Asia, jobs in renewables will more than triple.



# Strengthening cooperation with the region: IRENA Regional Initiatives



# Strengthened dialogue with ASEAN: MoU and Associated Action Plan

*ASEAN-IRENA MoU signed on 30 October 2018*

*at the 36<sup>th</sup> AMEM*

*in conjunction with the Singapore International Energy Week*

## Areas of Cooperation:

Energy planning,  
including integration  
of high-shares of  
renewables

Assessments and  
roadmaps for  
accelerated  
deployment of  
renewables

Enabling policy and  
regulatory  
frameworks to scale  
up deployment

Renewable energy  
project facilitation  
support

Capacity Building as  
a cross cutting  
priority

Renewable energy  
technology  
assessments



# Accelerating Energy Access : The International Off-grid Renewable Energy Conference and Exhibition (IOREC)



Convened every two years, IOREC is the global platform for sharing experience and best practices on:

- Design and implementation of enabling policies
- Tailored financing schemes
- Innovative business models
- Technology applications for stand-alone and mini-grid systems.

# SIDS Lighthouses Initiative

*First launched at 2014 Climate Summit.*

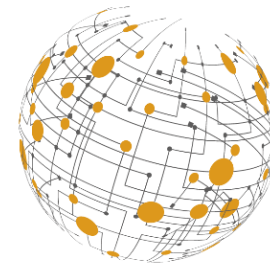
*Today, 57 Partners (36 SIDS and 21 Development Partners)*



**Implementation of effective and innovative solutions with continued technical and regulatory advisory to help SIDS overcome their unique challenges**

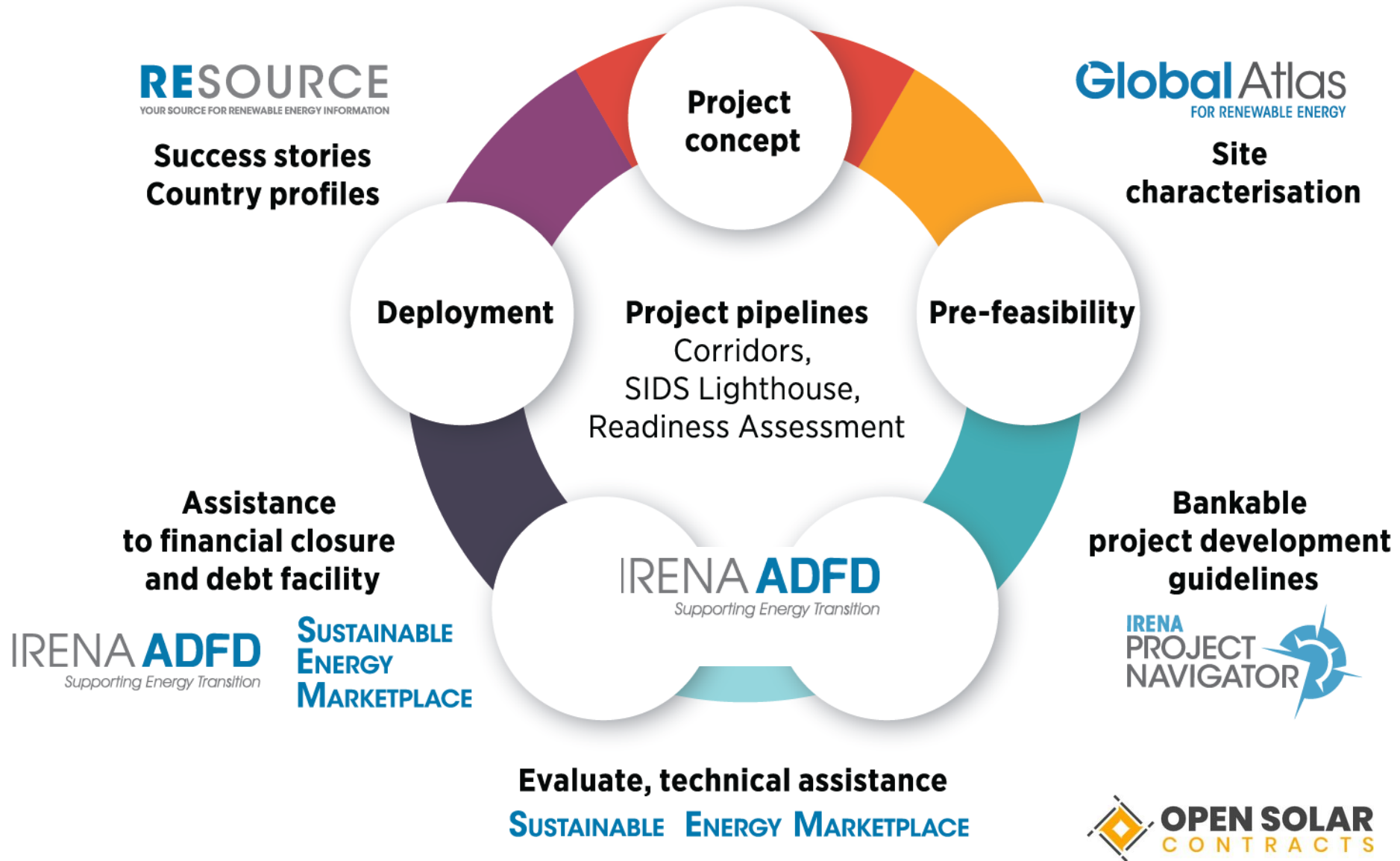
# Global Geothermal Alliance - GGA

- **Geothermal** Resource Classification and Assessment
- **Geothermal** Risk Mitigation and Market Assessment
- **Geothermal** Direct Use in the Agri-food Sector



GLOBAL  
GEOTHERMAL  
ALLIANCE

# Project Facilitation





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**Thank you!**

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