

THE ENERGY TRANSFORMATION IS HAPPENING, BUT NEED TO ACCELERATE

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**

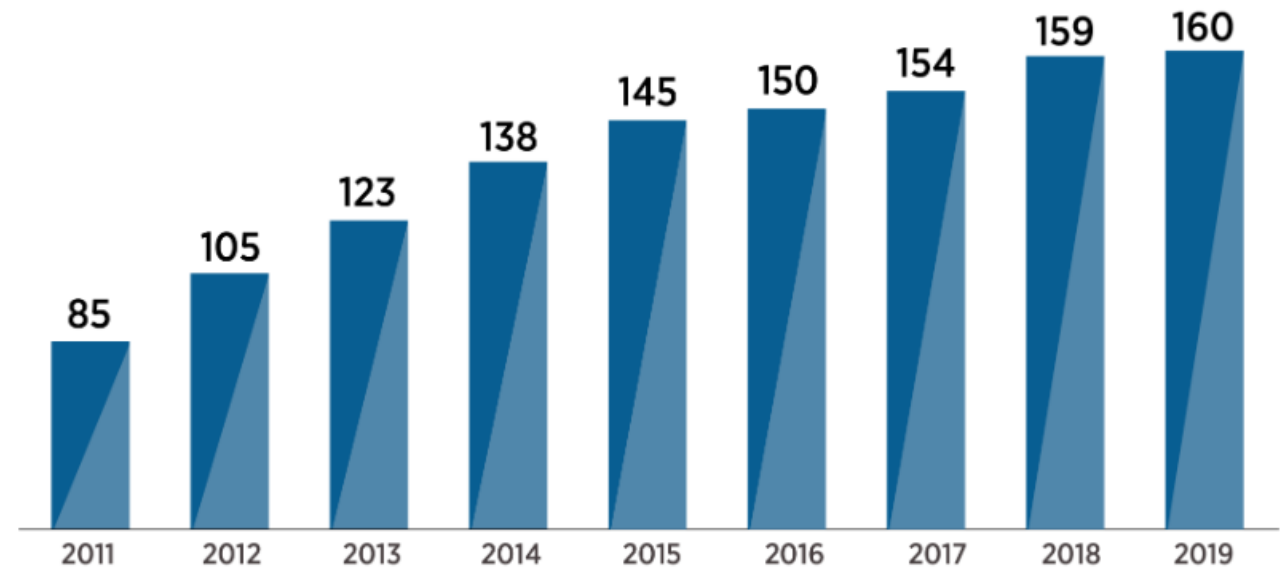
Scope: All renewable energy sources produced in a **sustainable manner**

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 2888, Abu Dhabi, UAE

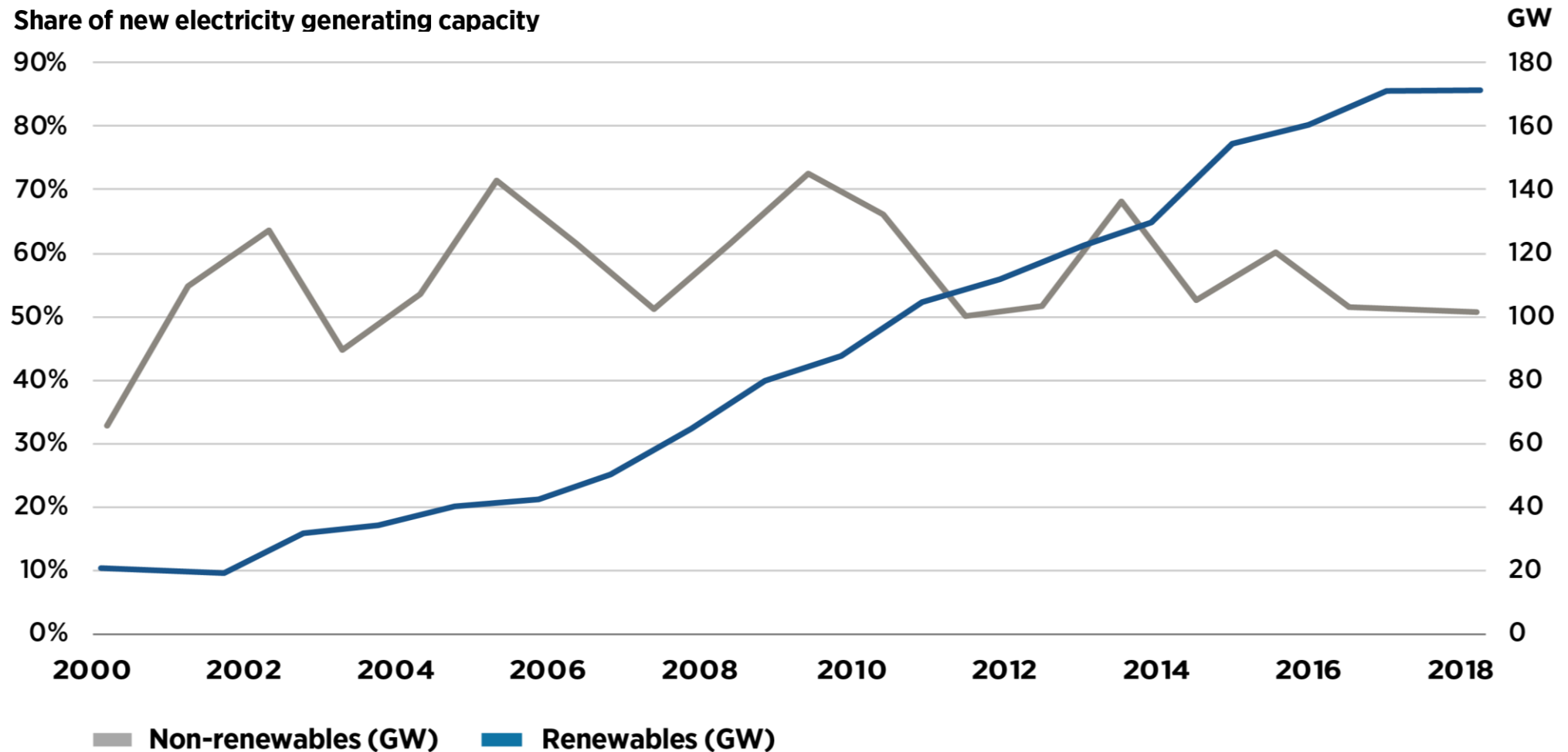


IRENA Innovation and Technology
Center



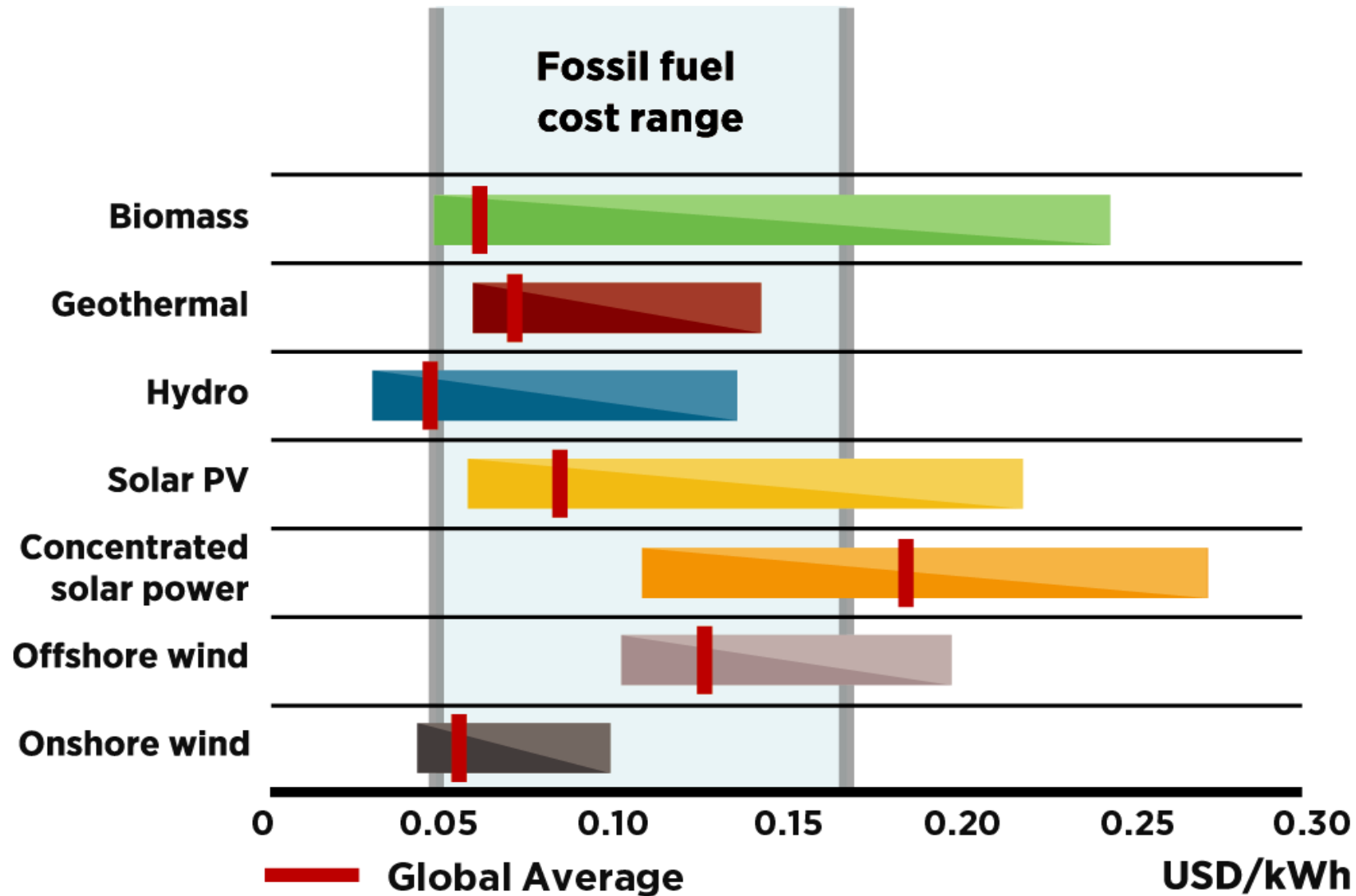
IRENA - Office of the Permanent
Observer to the United Nations

Renewable capacity additions are increasing...

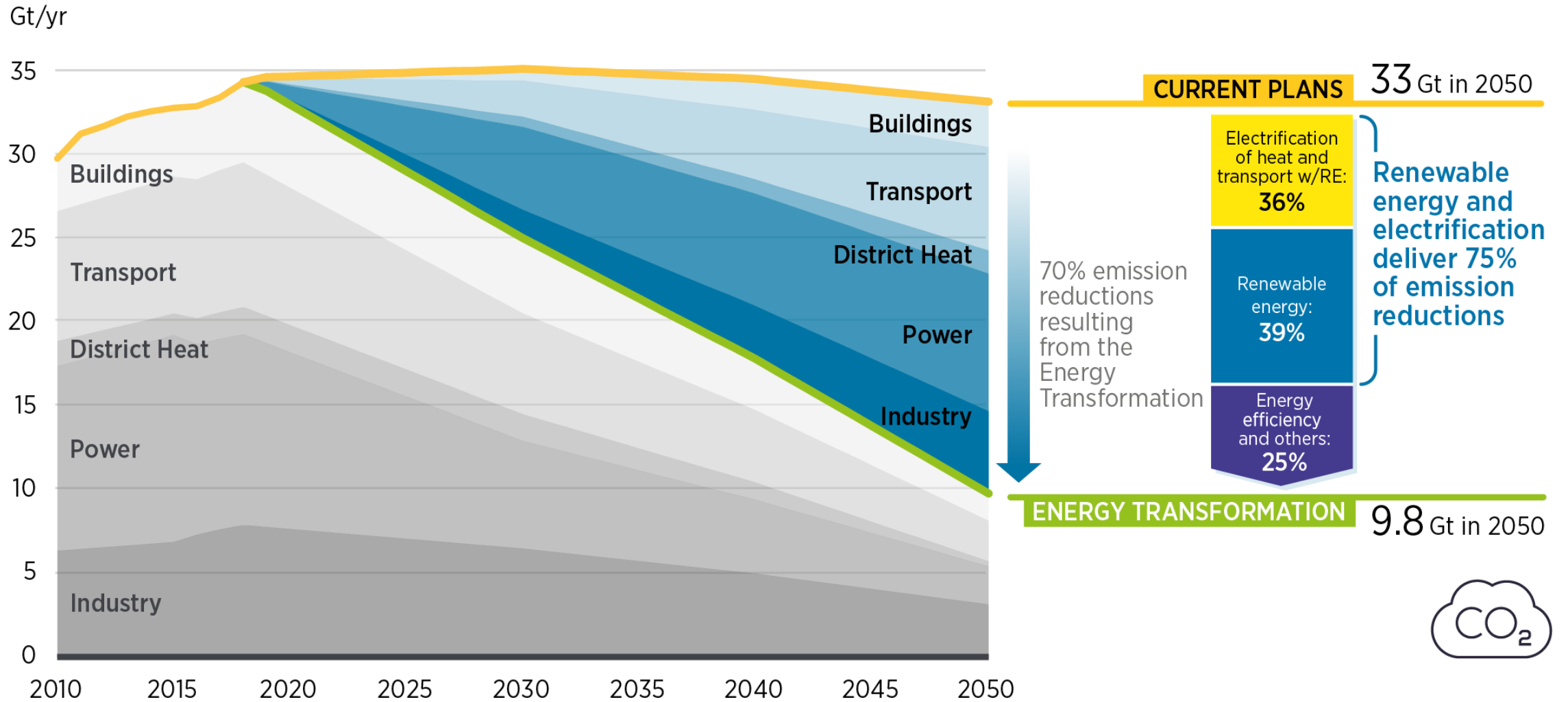


- For the 7th year, net additional power generation capacity of RE exceeded that of non-RE sources.
- A third of global power capacity is now based on renewable energy

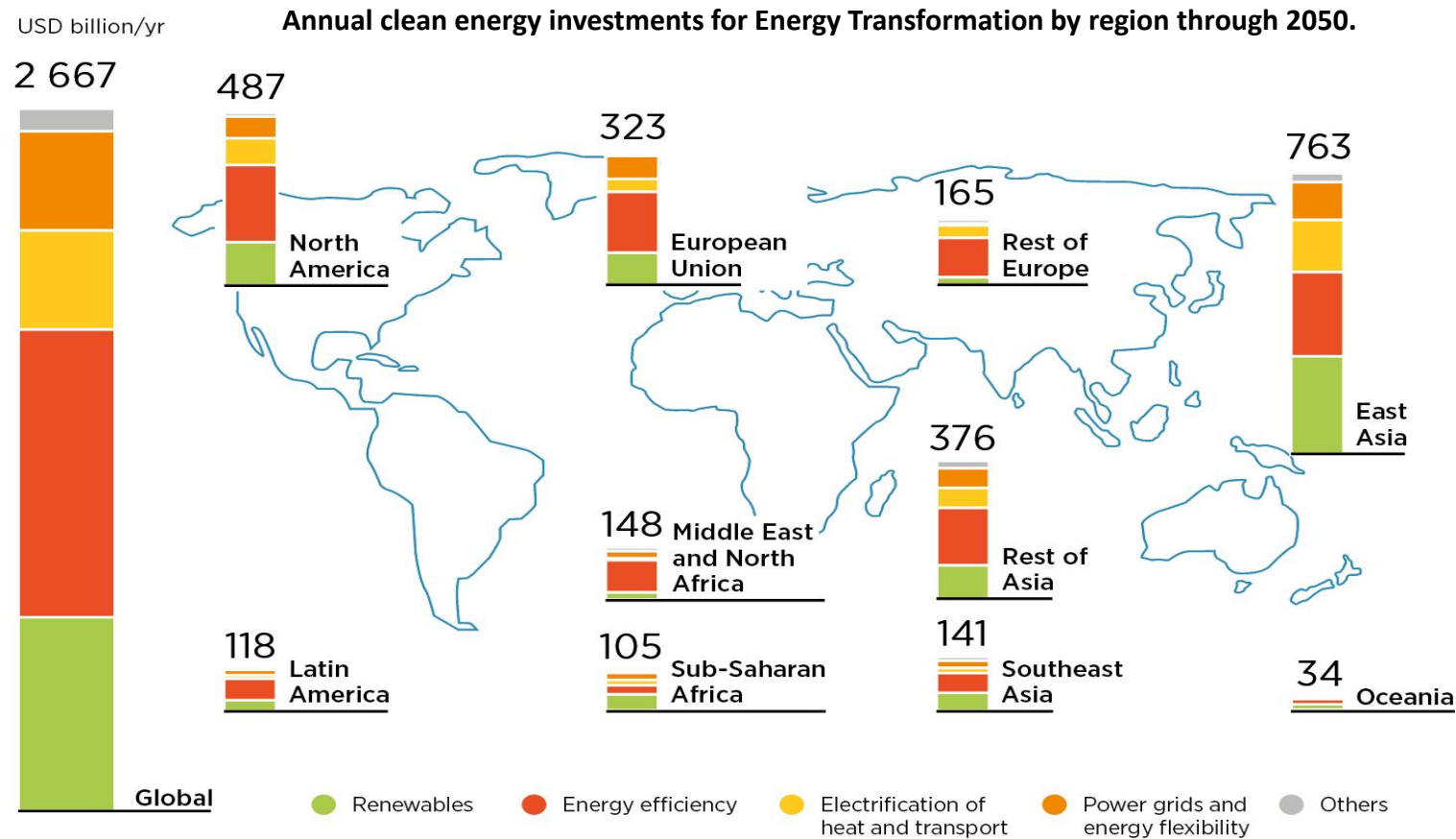
From “luxury” to low-cost solution: The business case of renewables continues to strengthen



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

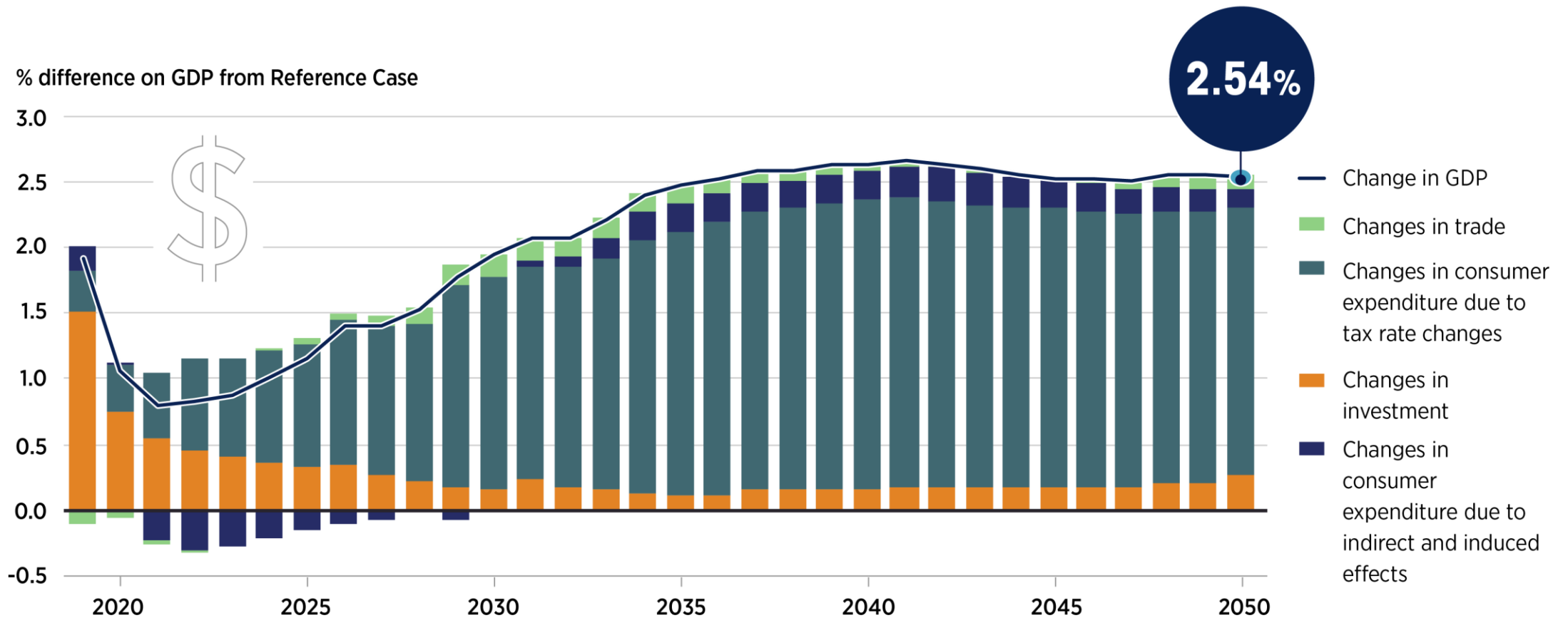


which vary per region

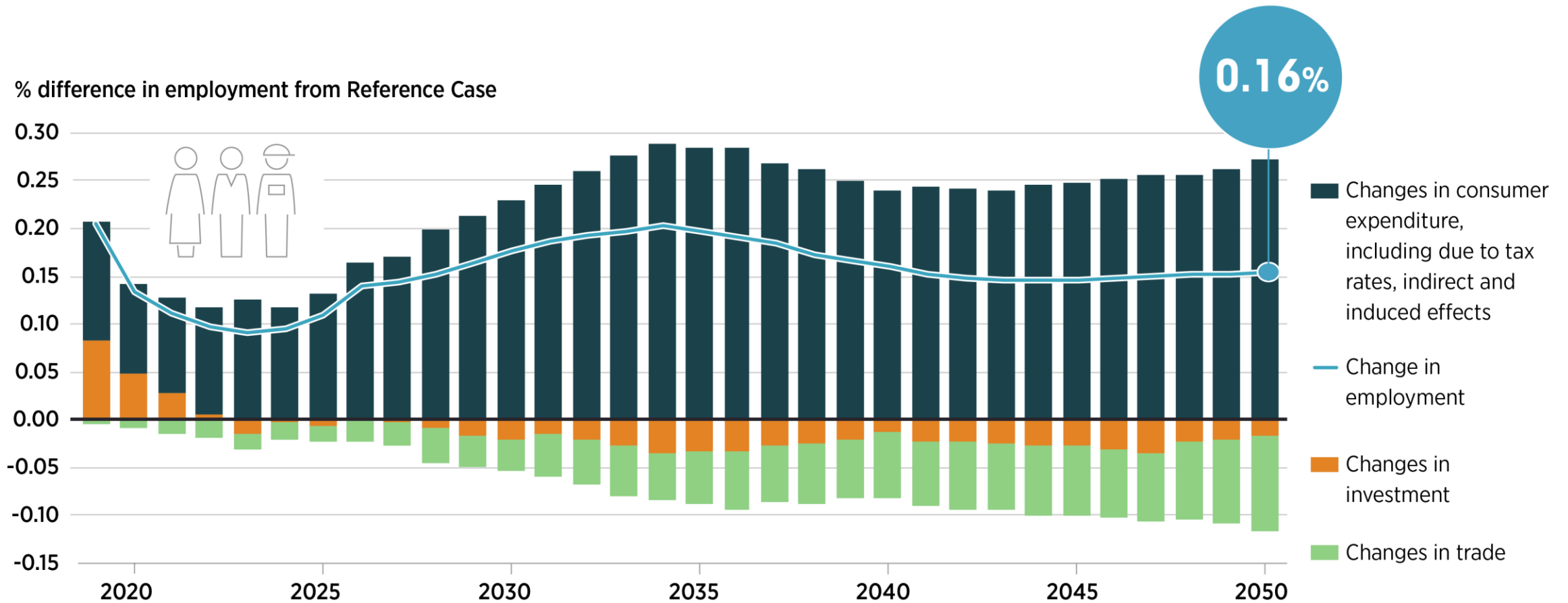


- East Asia accounts for the highest annual investment needs, at USD 763 billion by 2050
- Every dollar spent in the global energy transformation saves 3 to 7 USD.

Such an energy transformation can foster economic growth...

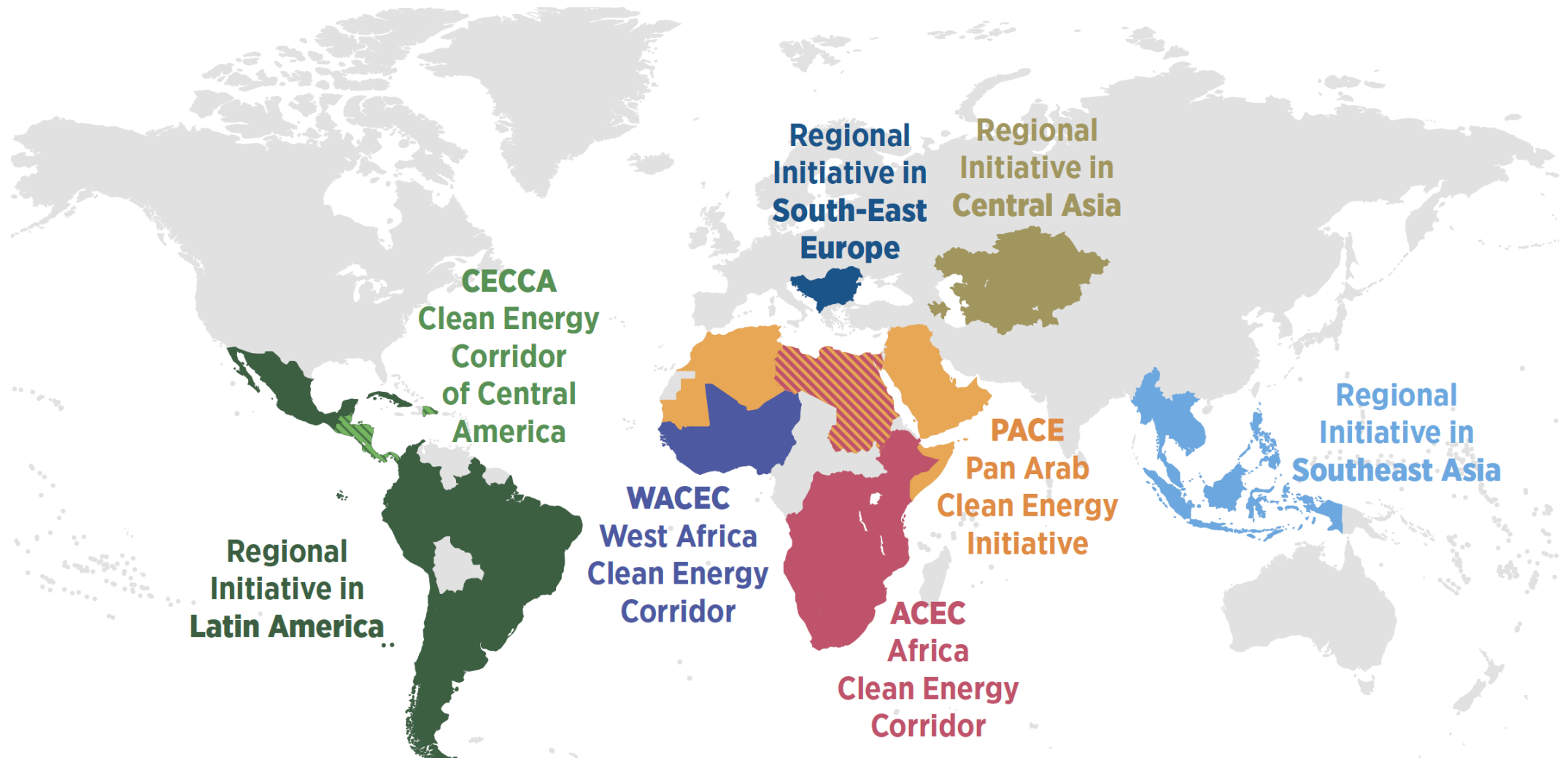


... create jobs and boost industries



- 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 36th 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.

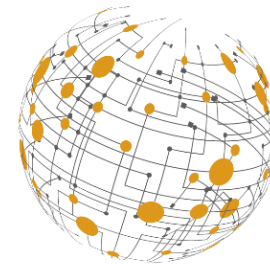
Today, 57 Partners (36 SIDS and 21 Development Partners)



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

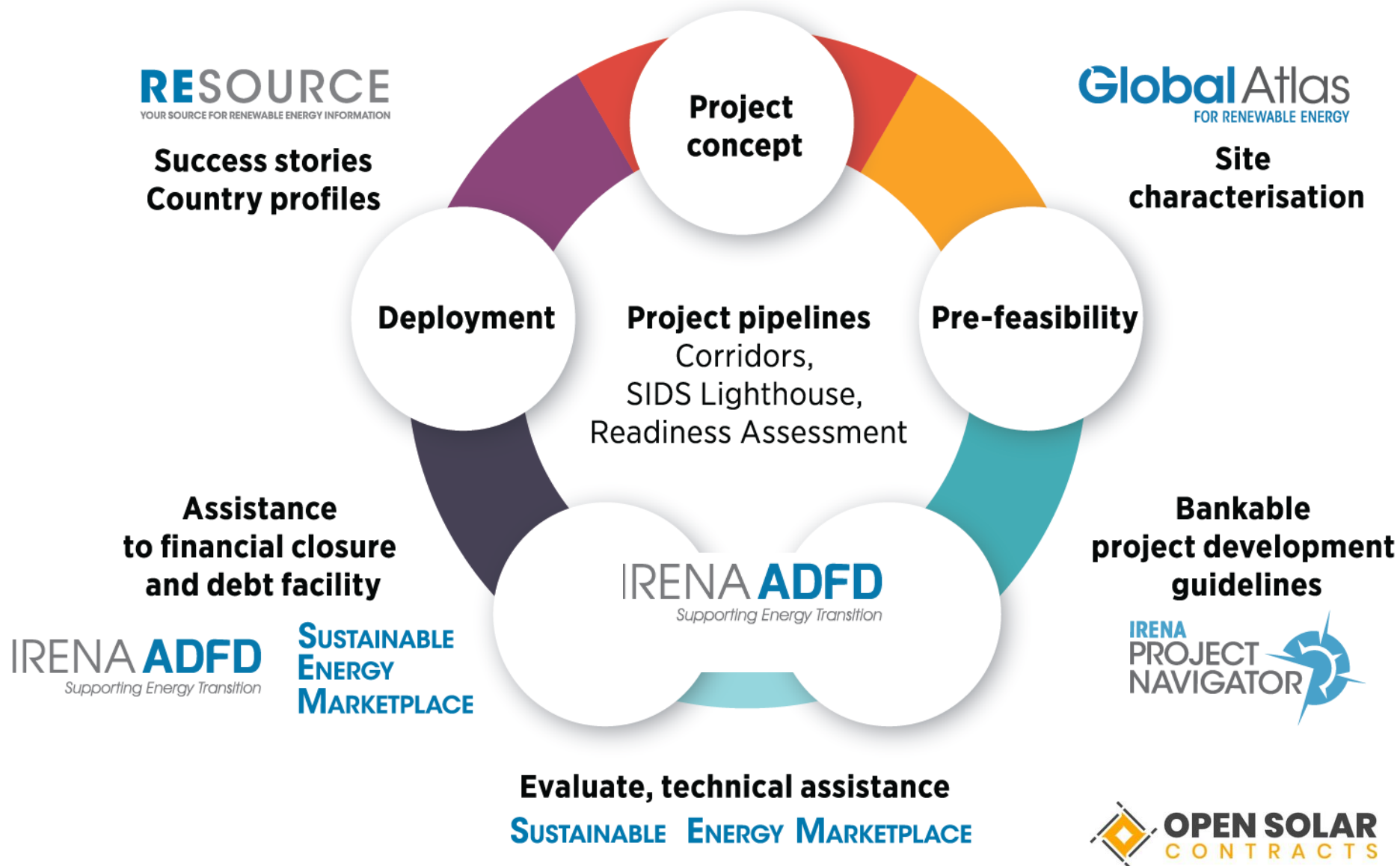
Global Geothermal Alliance - GGA

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



GLOBAL
GEOTHERMAL
ALLIANCE

Project Facilitation





www.irena.org



www.twitter.com/irena



www.facebook.com/irena.org



www.instagram.com/irenaimages



www.flickr.com/photos/irenaimages



www.youtube.com/user/irenaorg

Thank you!

RRoesch@irena.org

