

Socio-economic benefits of renewables: Job creation

Presenter:

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TUESDAY, 24 NOVEMBER 2020 • 10:00-10:30 CET

SPEAKER



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Annual reviews of employment in renewables



Analyses of local capacities



Assessing gender equity in renewable energy



Measuring the socio-economic impact of renewables





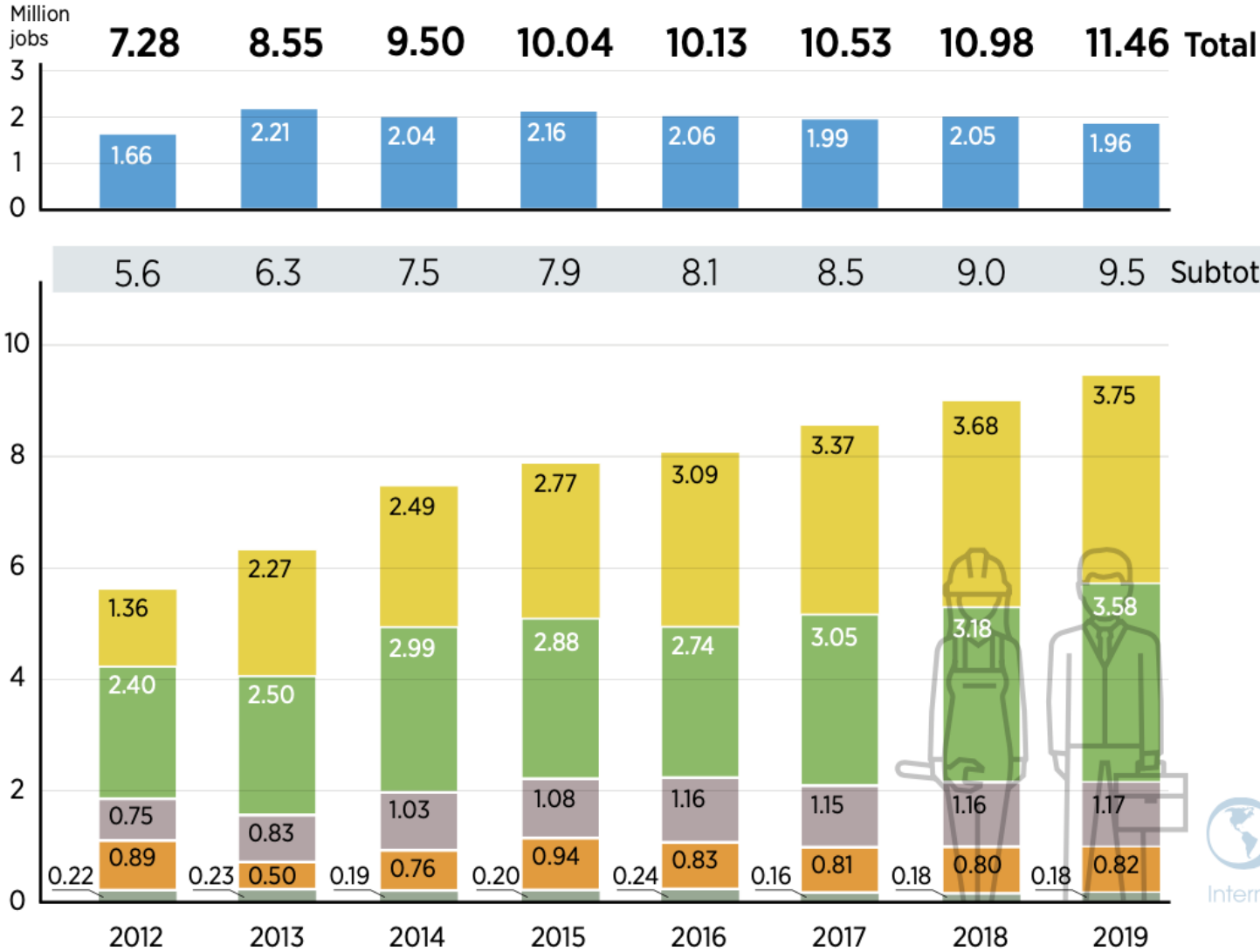
Gender Aspects







Beyond the Numbers: Job Quality

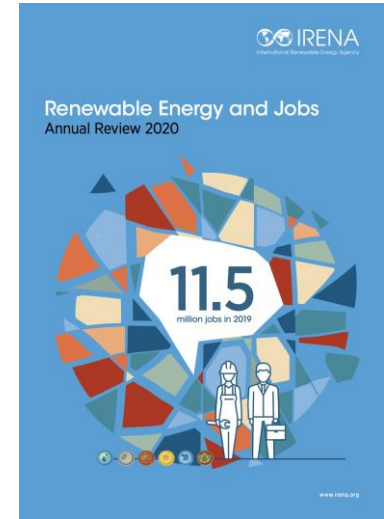
In Focus: Education and Training

COVID-19 and the Way Forward

Growth of Renewable Energy Jobs, 2012-19

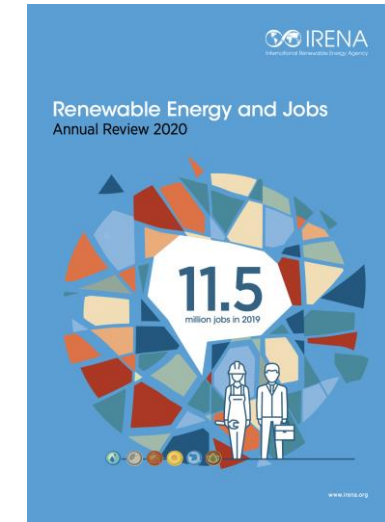
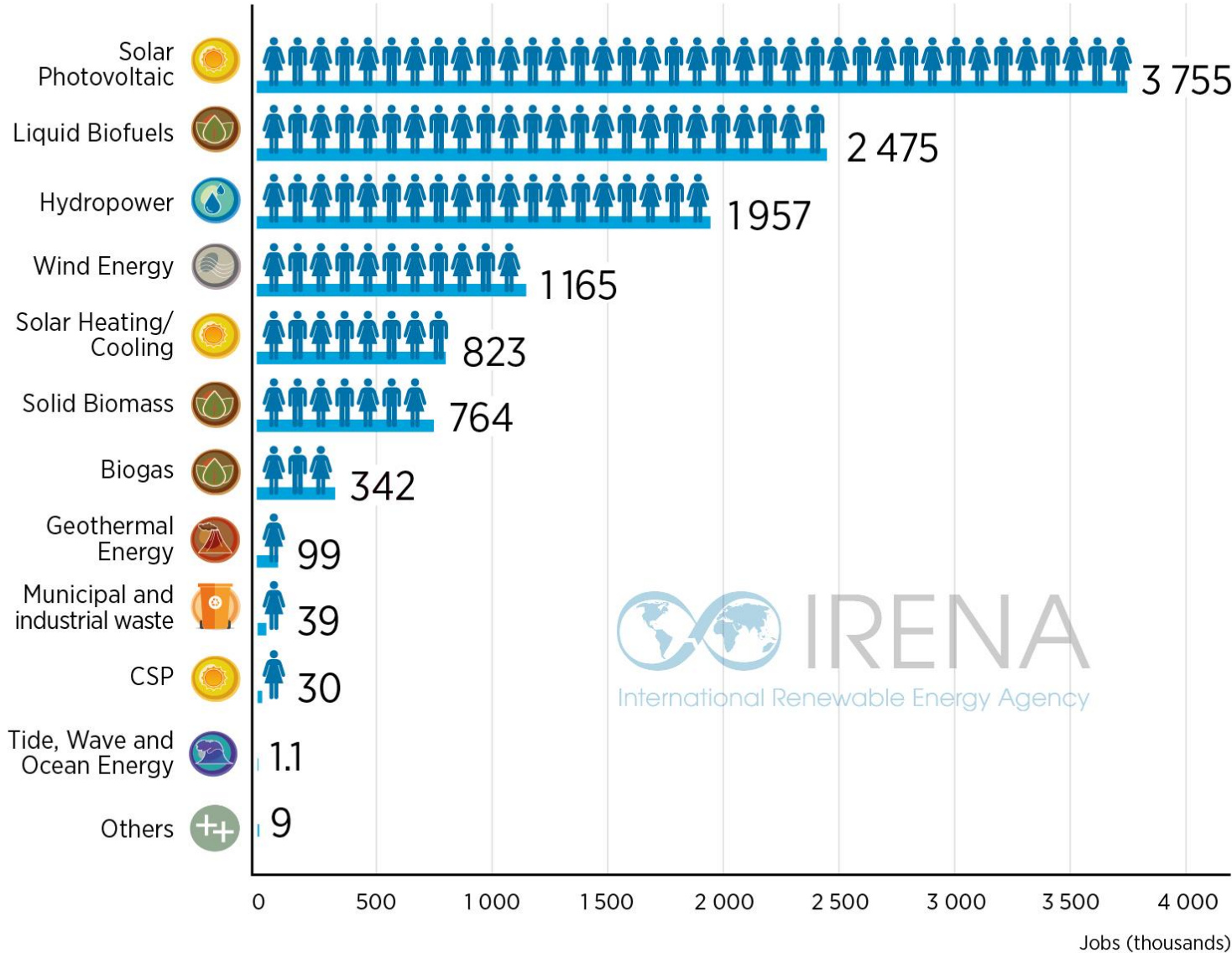


- Hydropower 
- Solar photovoltaics 
- Bioenergy^a 
- Wind energy 
- Solar heating/cooling 
- Others^b 

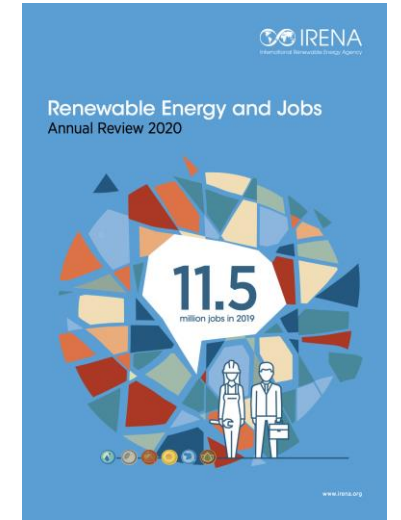
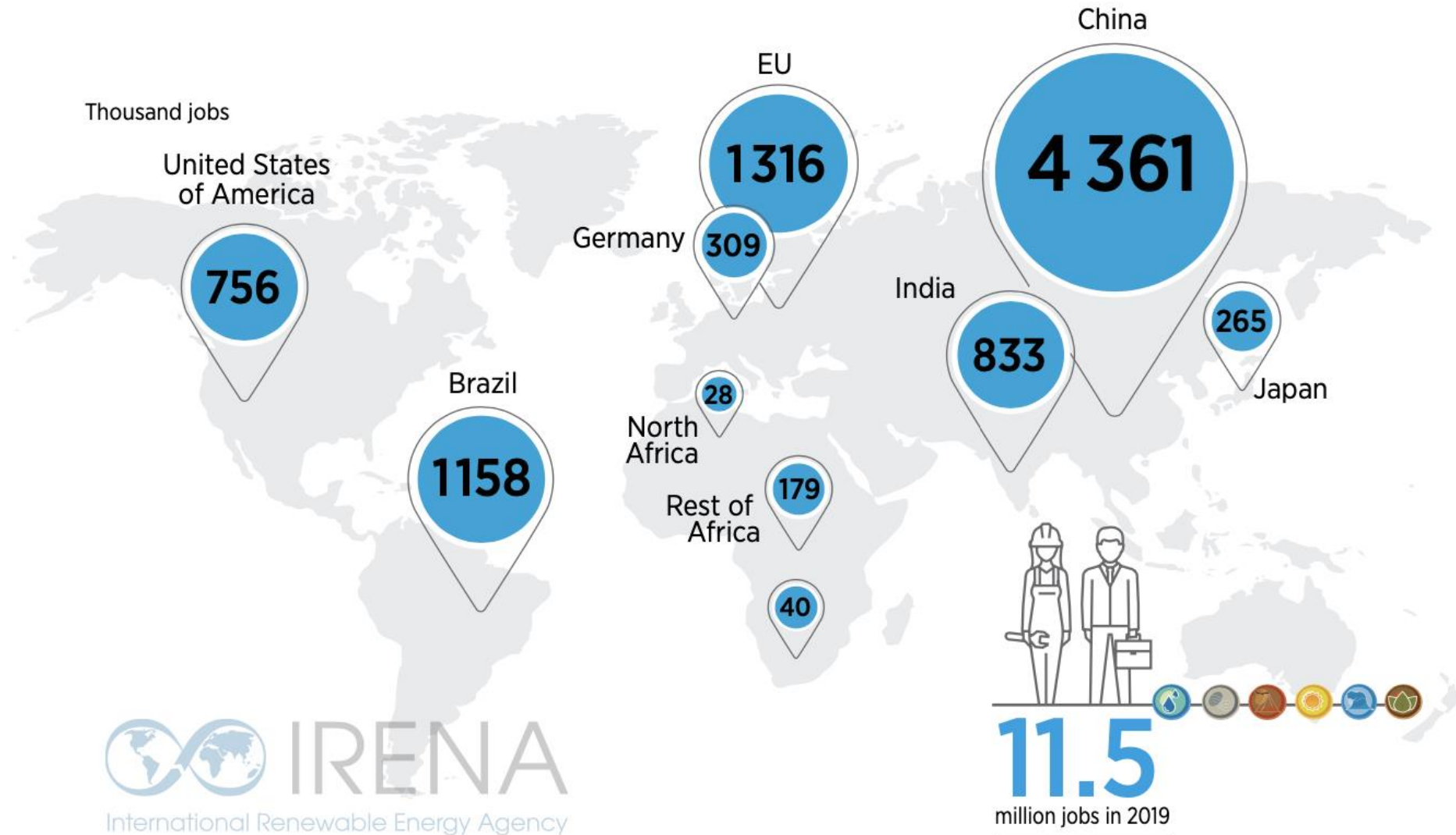


Source: IRENA jobs database.

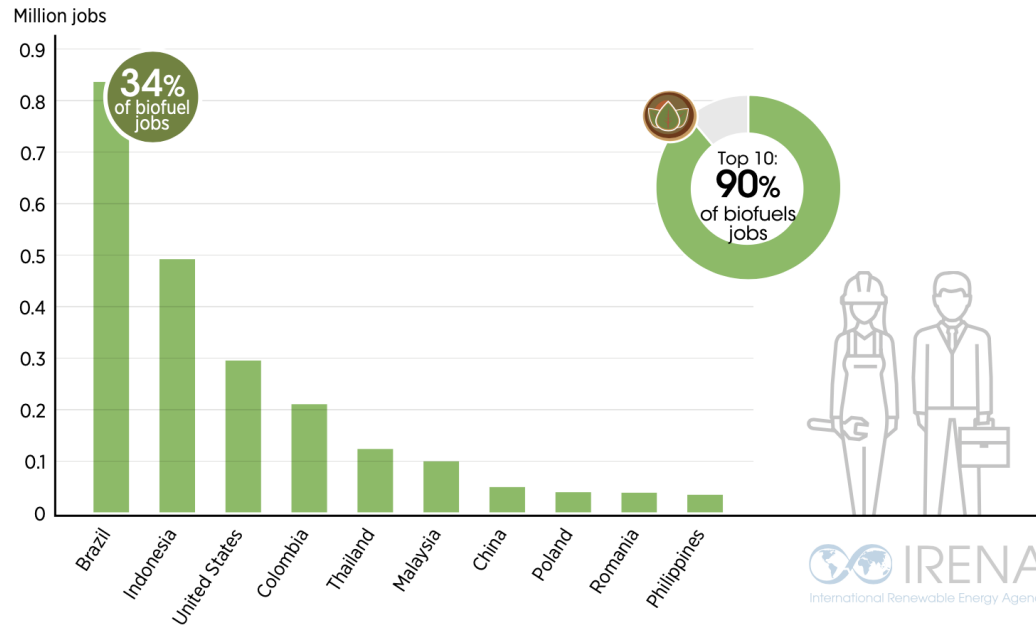
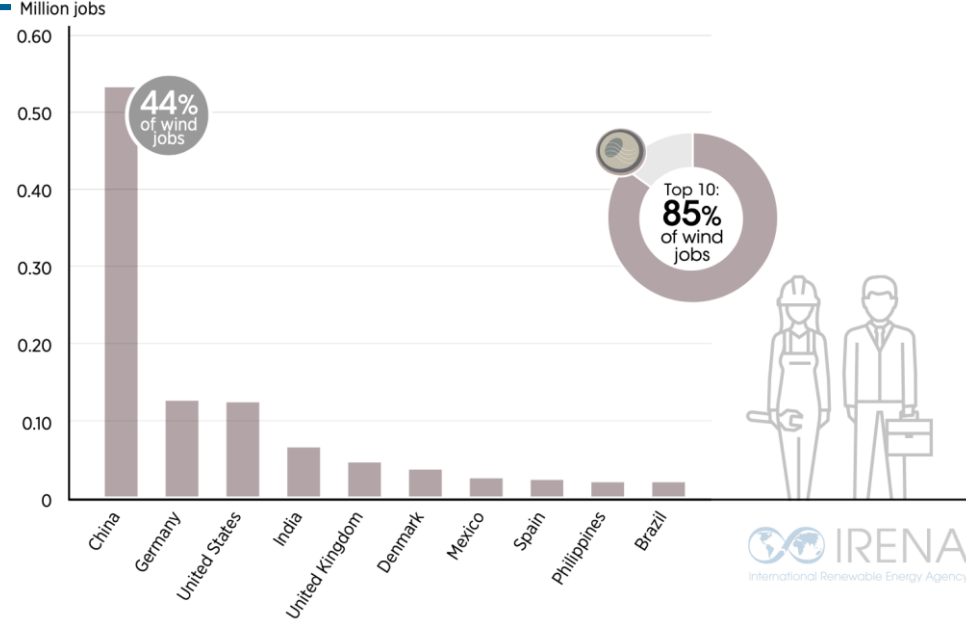
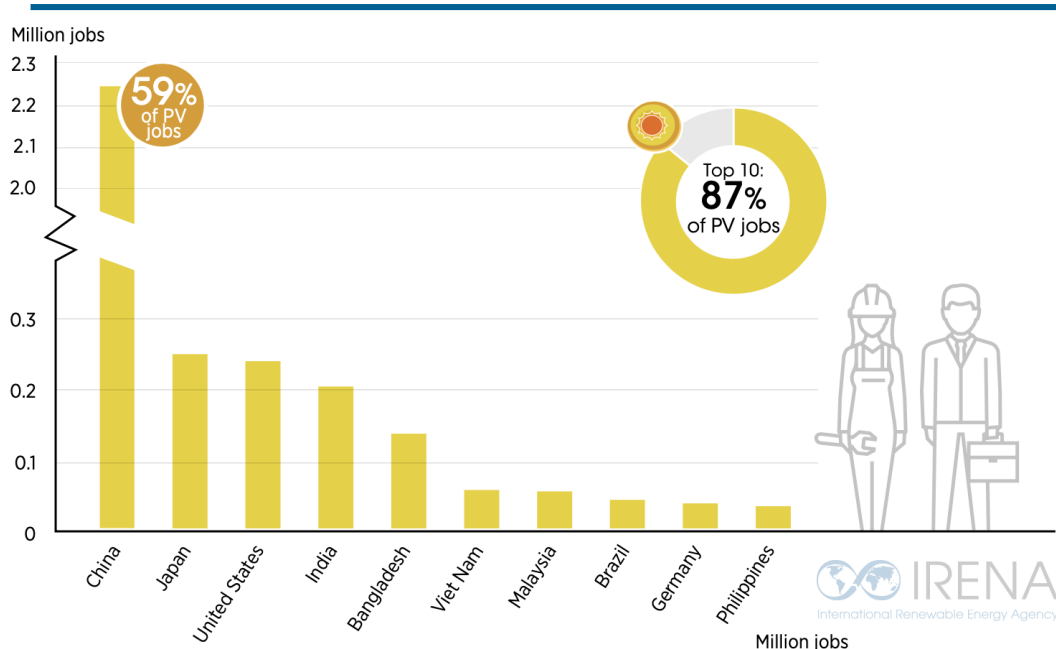
Jobs in Renewable Energy, by Technology



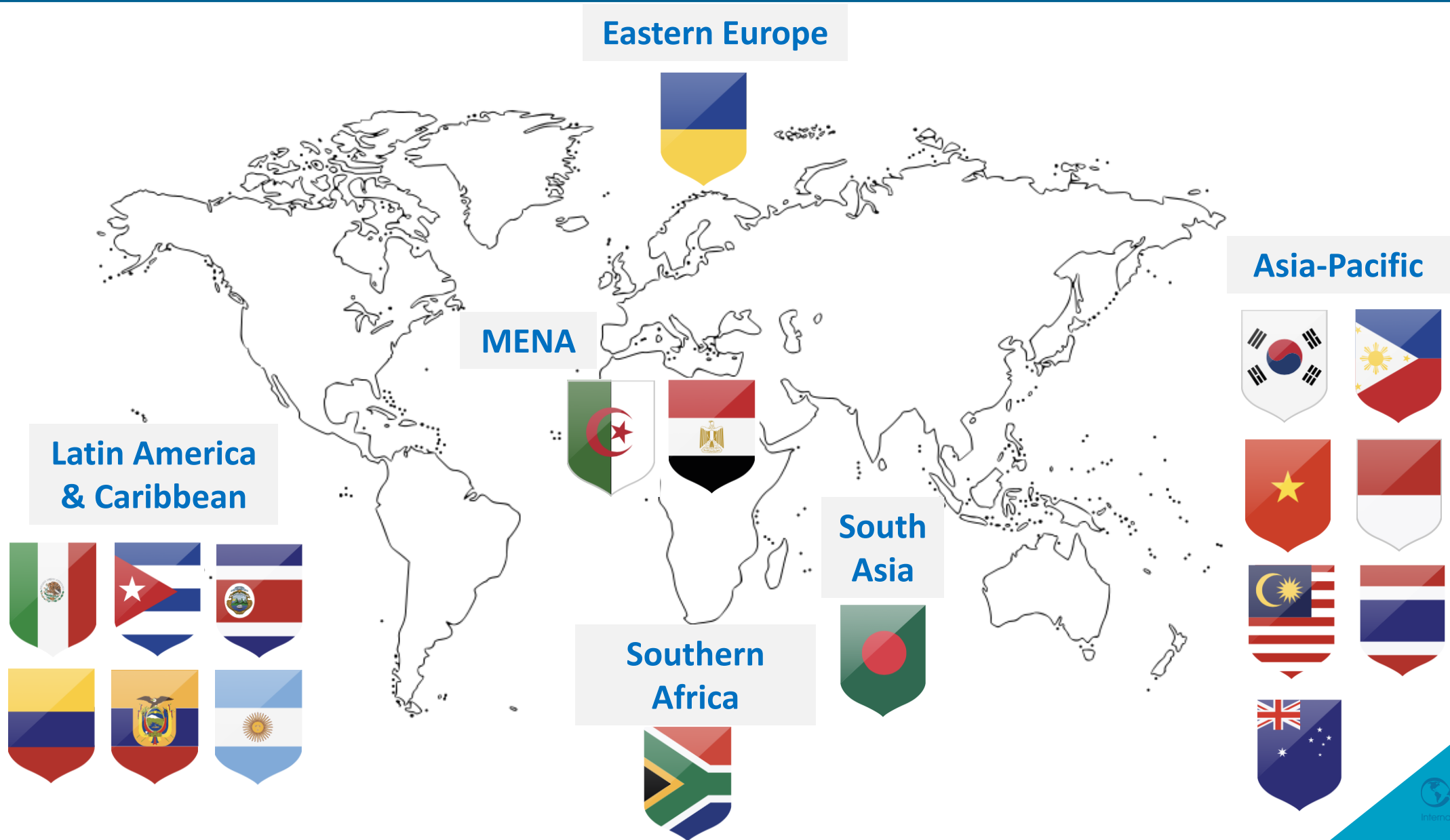
Jobs in Renewable Energy, by Region/Country



Jobs: Top 10 Countries in PV, Wind and Biofuels



Jobs in Renewable Energy, other Countries



Technological advances & falling costs

- ▶ lower costs =>
more deployment for same \$

Deployment: New installations

- ▶ jobs in project dev.;
manufacturing; sales;
construction & installation

Deployment: Cumulative installations

- ▶ jobs in operations &
maintenance

Policy ambition: Deployment & integration

- ▶ FITs; auctions; fiscal;
- ▶ targets & mandates

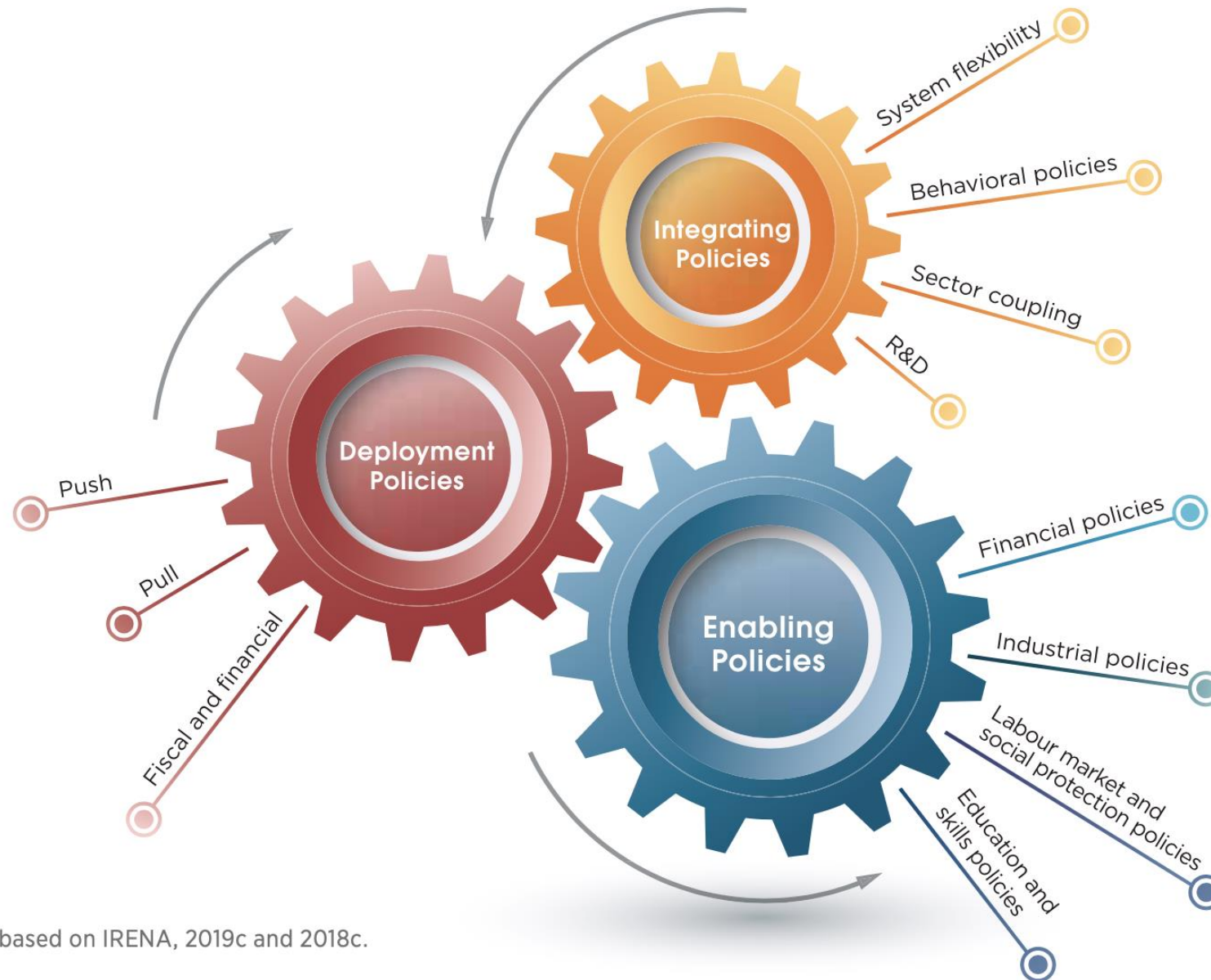
Changes in labour intensities

- ▶ automation; AI;
- ▶ economies of scale
- ▶ learning effects

Supply chains / trade dependencies

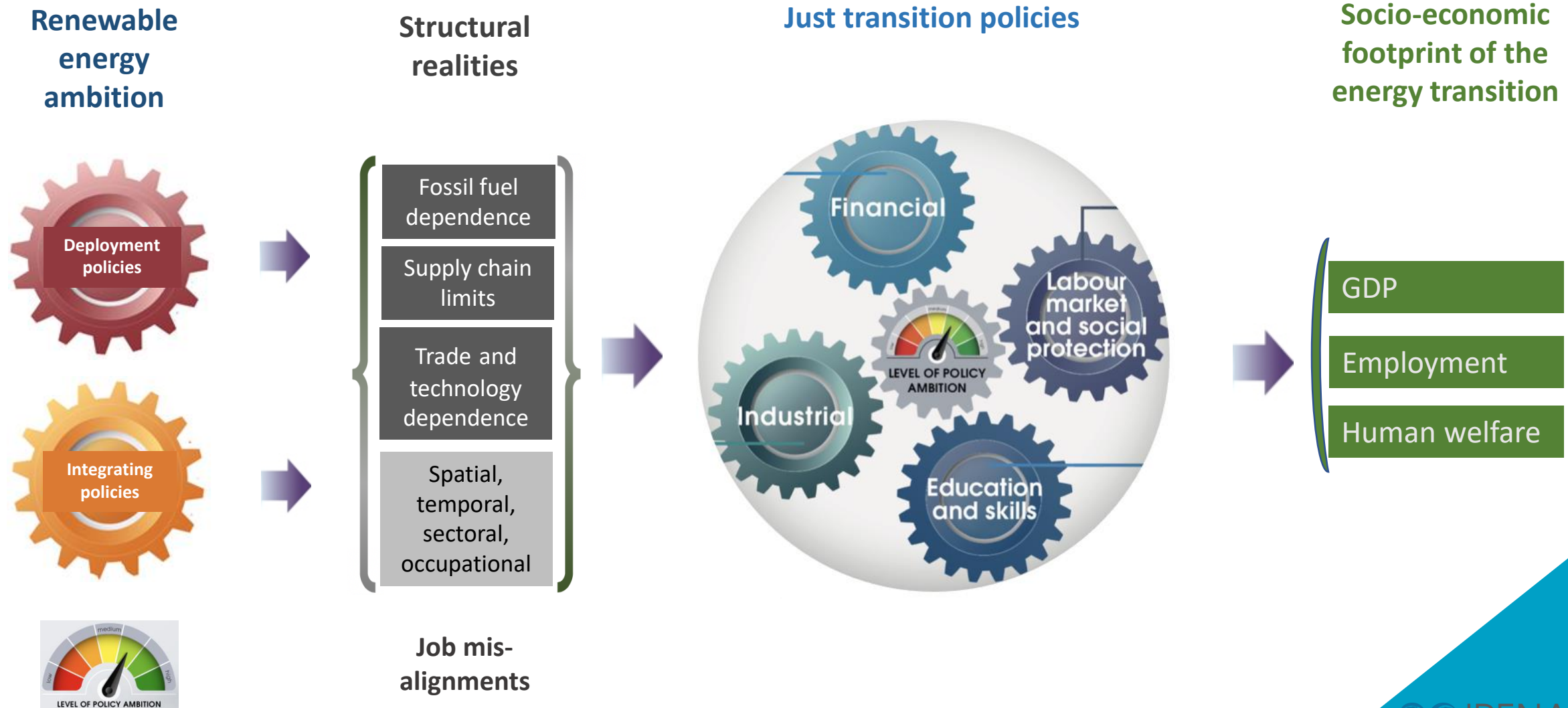
- ▶ geographic footprints
- ▶ localisation efforts

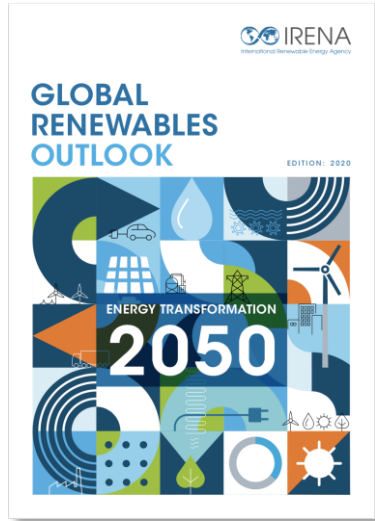
Energy transition: Policy Framework



based on IRENA, 2019c and 2018c.

Energy transition: Structural challenges and policies





2030: 29.5 million RE jobs

Plus:
Energy Efficiency - *29.2 million*
Energy flexibility - *12.1 million*

2019: 11.5 million RE jobs

Plus:
Energy Efficiency - *9.5 million*
Energy flexibility - *7.4 million*

2050: 42 million RE jobs

Plus:
Energy Efficiency - 21.3 million
Energy flexibility - 14.5 million





Q & A
10 min

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