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30th OSCE Economic and Environmental Forum

SECOND PREPARATORY MEETING

Łódź, Poland, 23-24 May 2022

Session 4

Ms. Celia García-Baños, Programme Officer at International Renewable Energy Agency (IRENA)



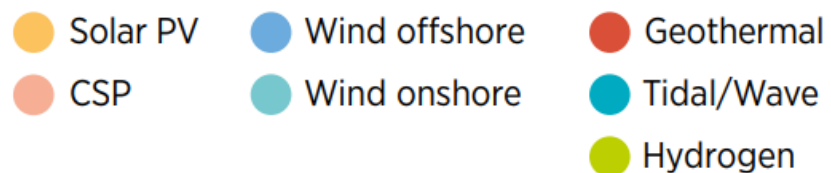
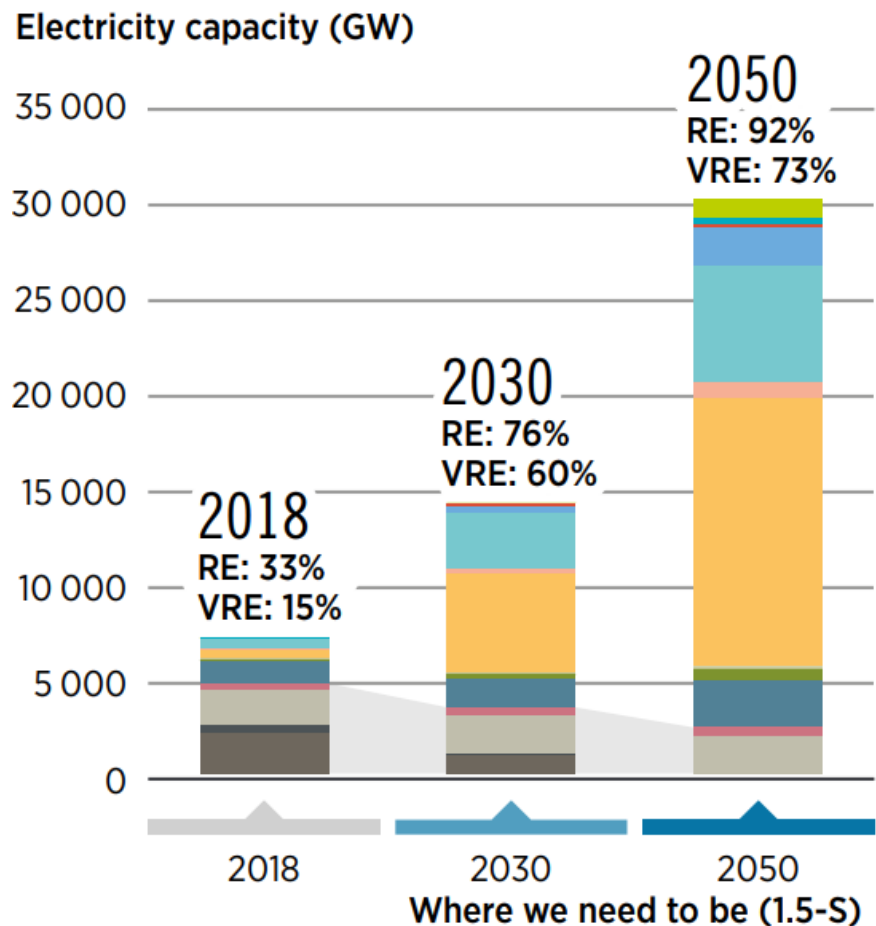
Policy and legislative measures supporting green growth, job creation, and diversity

Celia García-Baños
Programme Officer – Policy, Gender and Socioeconomics

Tuesday 24th of May



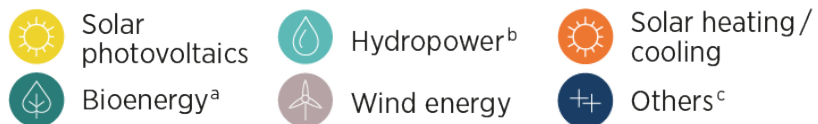
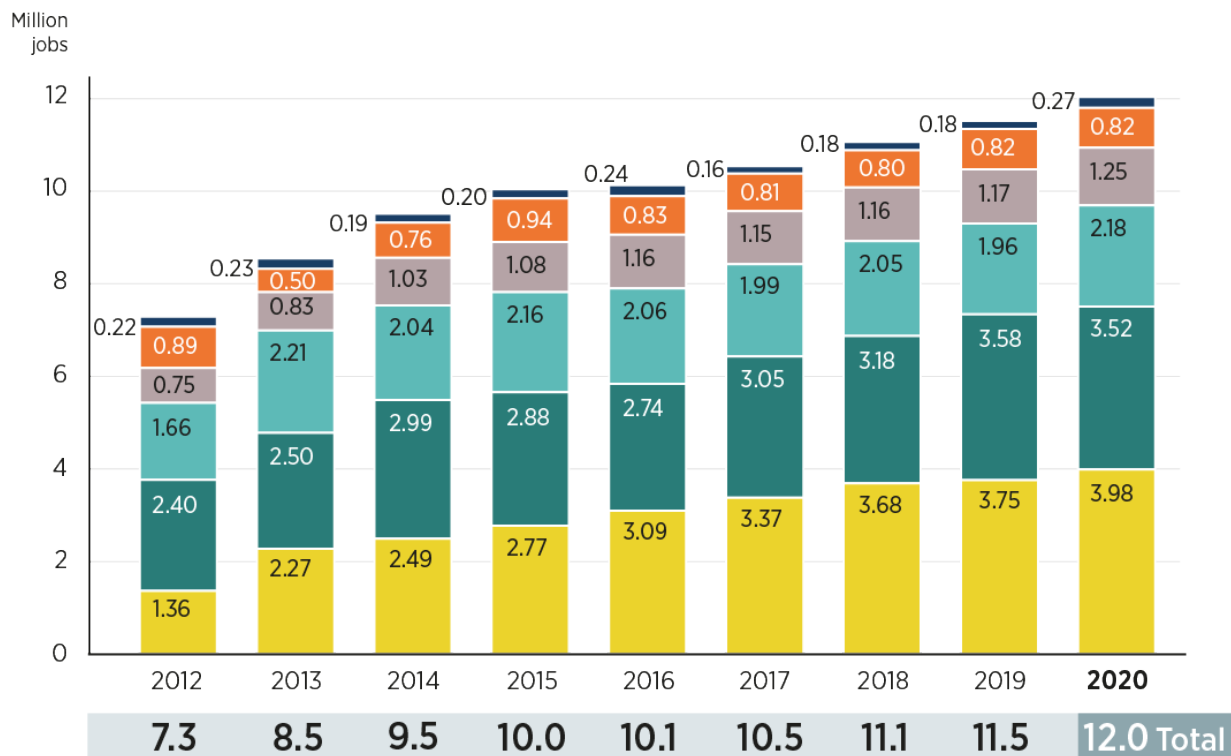
Renewables could decarbonize 90% of the power sector by 2050



- In order to get to where we want to go, renewables will need to provide **76%** and **92%** of the **total electricity generation capacity** by **2030** and **2050** respectively, up from over just 33% in 2018
- Specific policies and measures such as **RE targets, tax incentives, pricing mechanisms**, among others are needed to increase the deployment of renewables
- Renewables will necessitate an annual investment of more than **USD 1 trillion** till 2030.



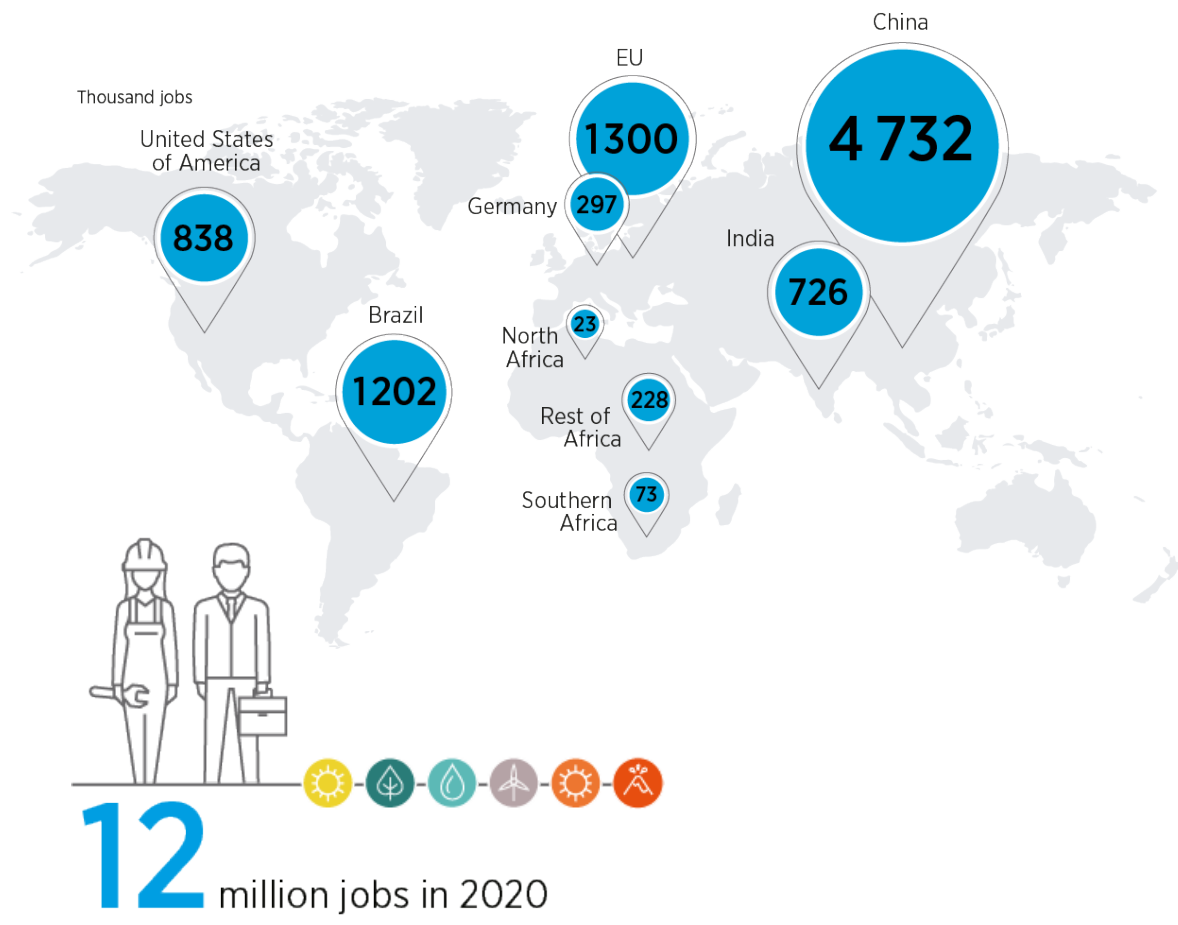
Jobs in Renewable Energy – by Year and Selected Countries



^a Includes liquid biofuels, solid biomass and biogas.

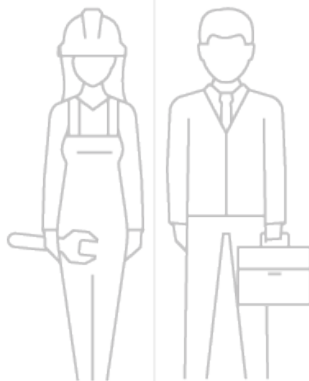
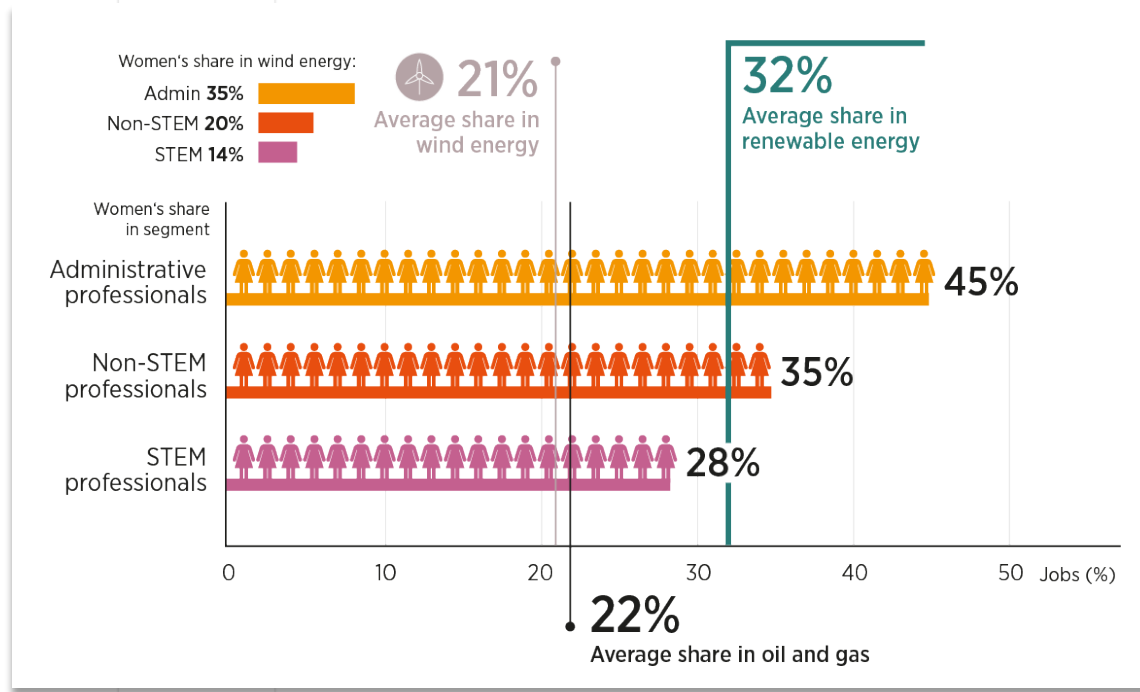
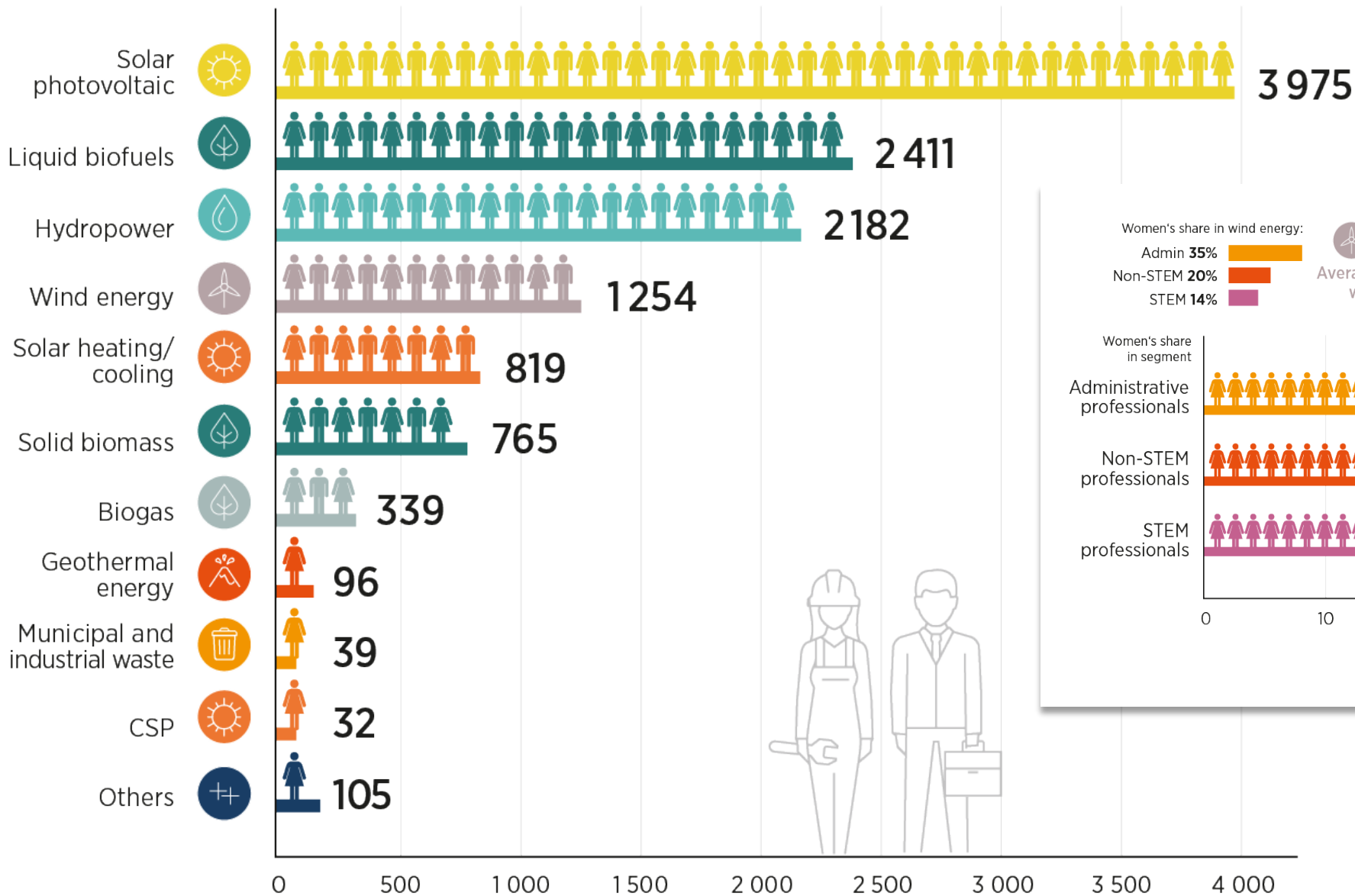
^b Direct jobs only.

^c "Others" includes geothermal energy, concentrated solar power, heat pumps (ground based), municipal and industrial waste, and ocean energy.



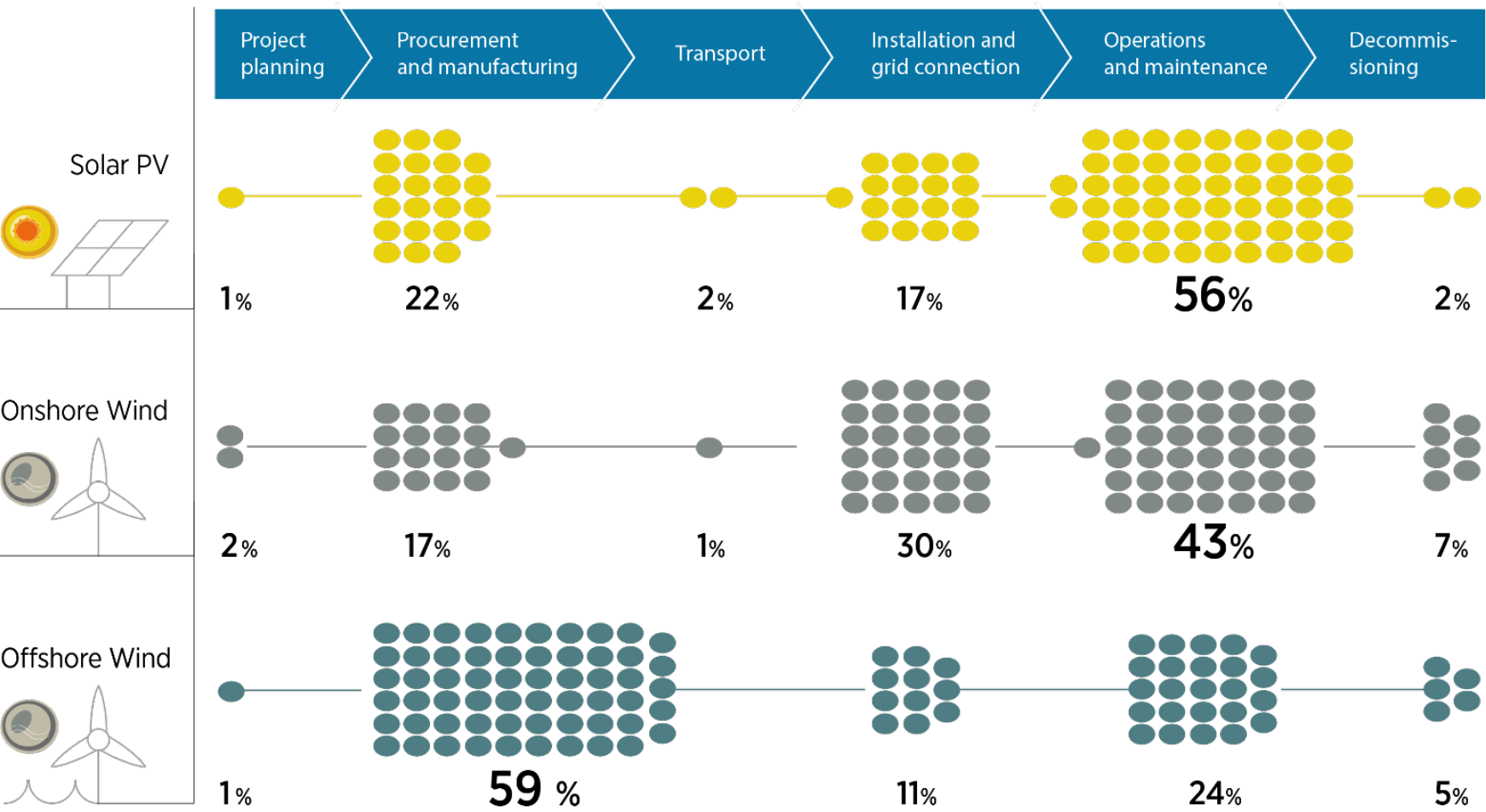


Jobs in Renewable Energy - by Technology and Women's Share





Labour and occupation requirements along the value chain

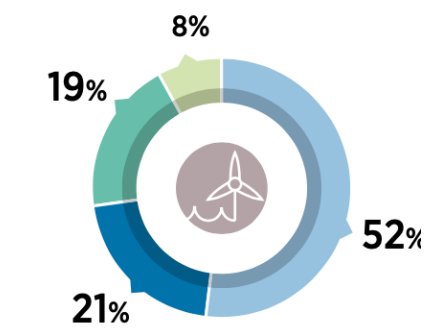
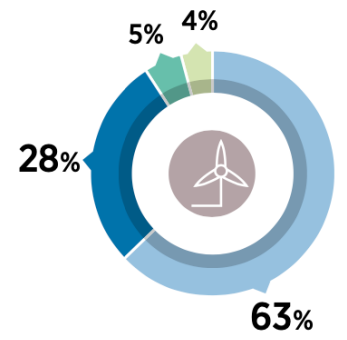
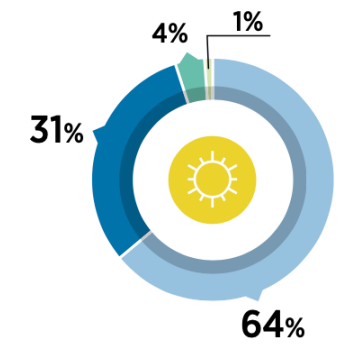


Human Resources Requirements

Solar PV (for 50MW)
229 055
 person-days

Onshore Wind (for 50MW)
144 420
 person-days

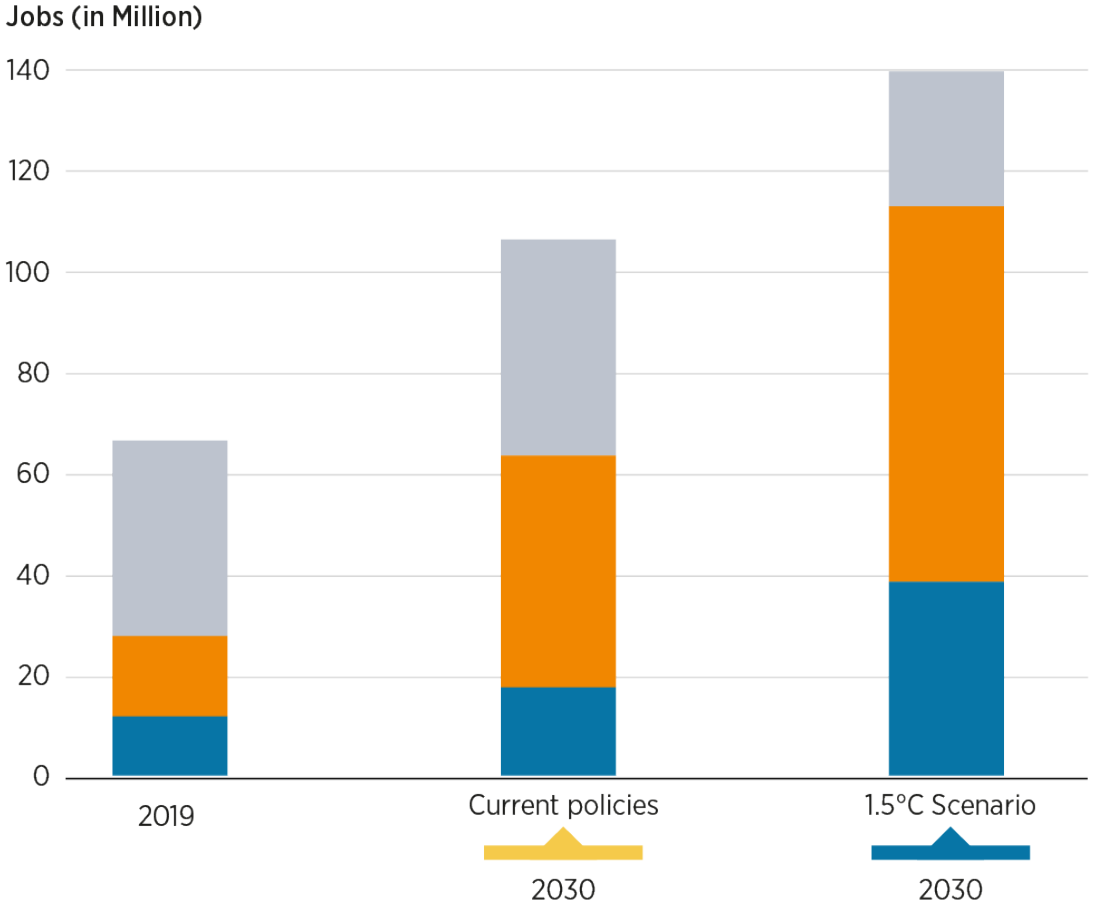
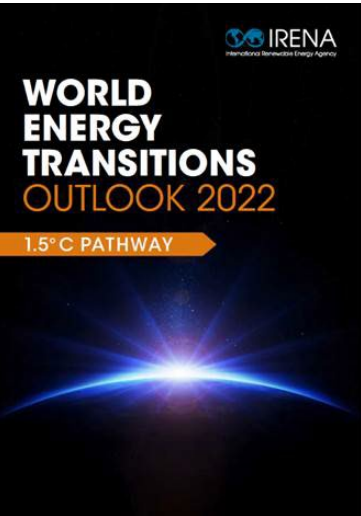
Offshore Wind (for 500MW)
2.1 mio
 person-days



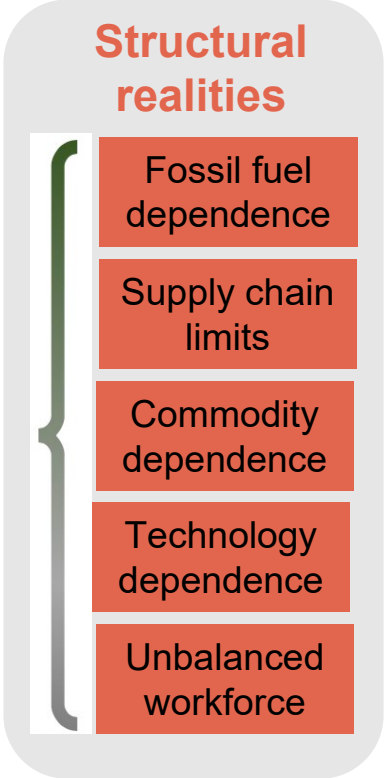
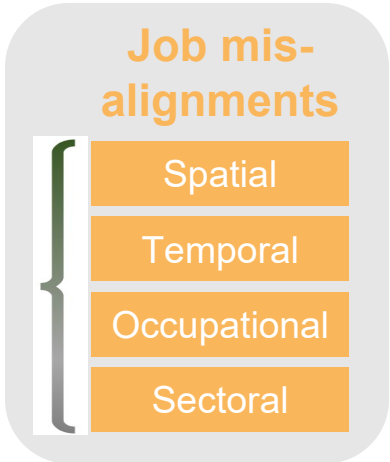
- Lower certification
- STEM professionals
- Non-STEM professionals
- Administrative



Additional 85 million energy-transition related jobs, by 2030



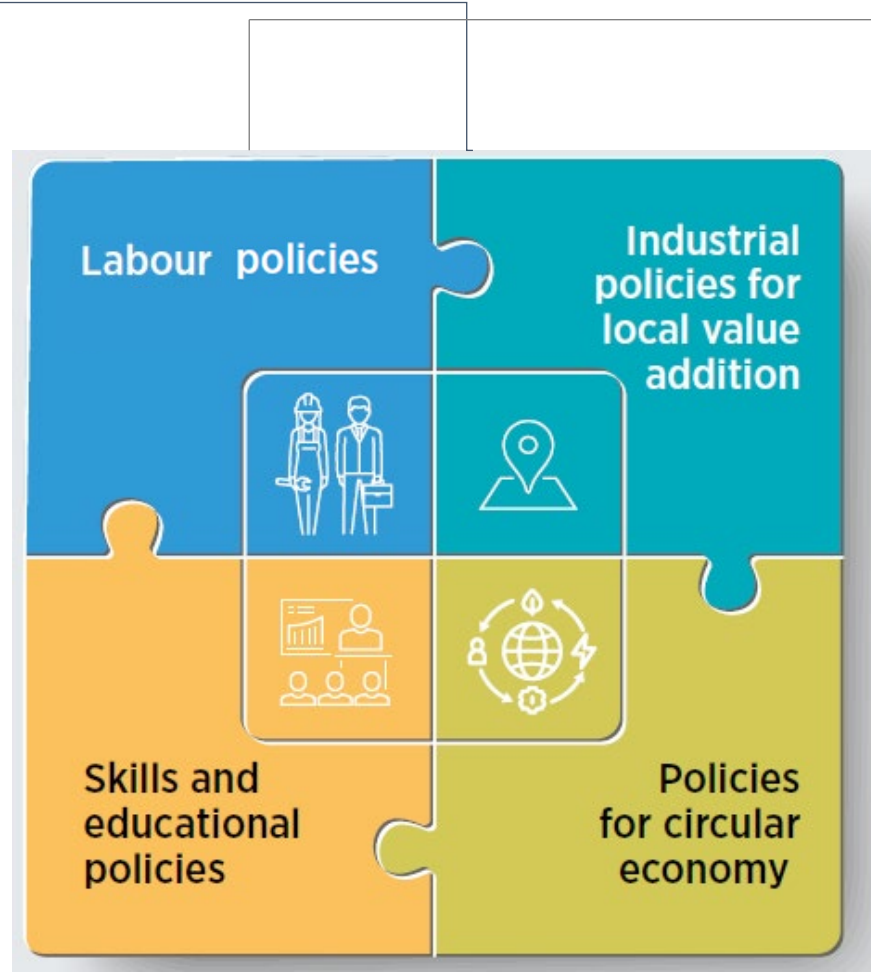
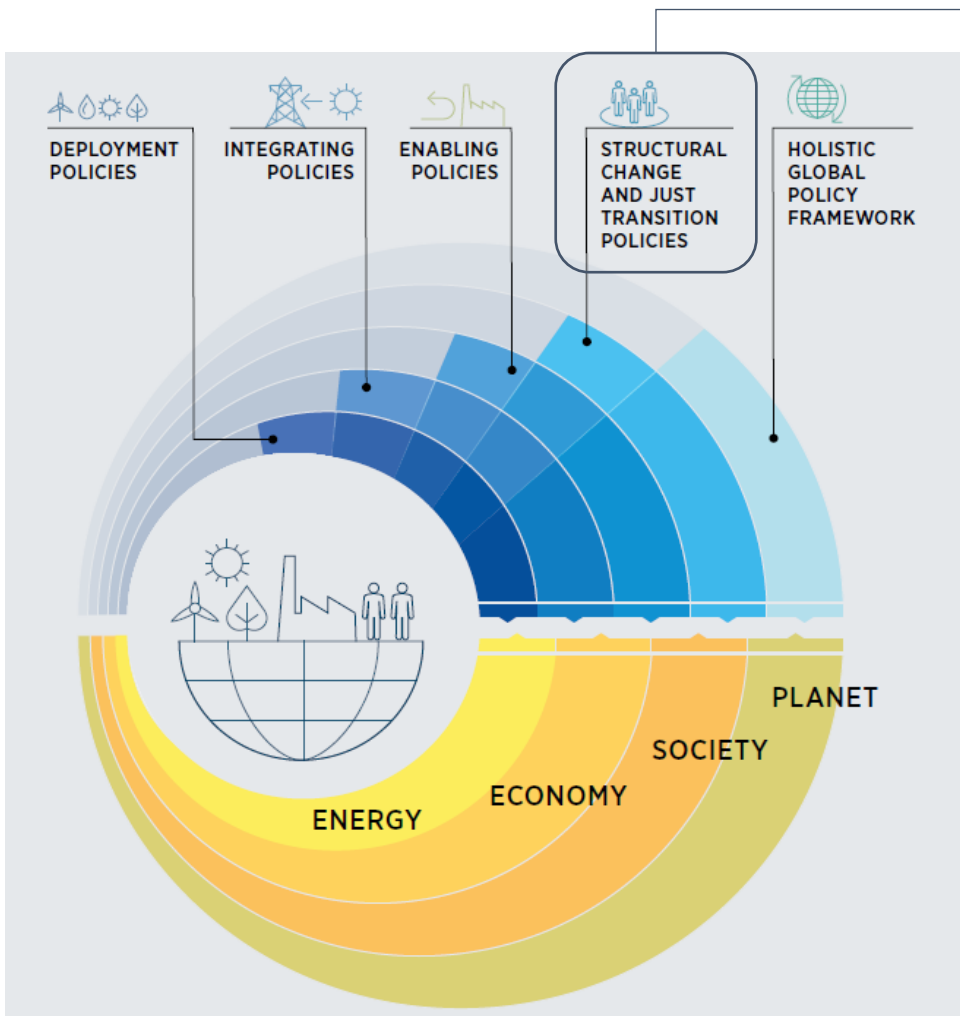
- Conventional energy
- Other transition-related sectors
- Renewable energy



Meeting the human resource capacity necessary to fill these newly created jobs requires a scaling up of education and training programmes as well as measures aimed at building an inclusive and gender-balanced transition workforce.

Policies for the energy transition

Comprehensive policy framework for a just and inclusive energy transition



Decent jobs

- Job creation
- Social protection
- Rights at work
- Social dialogue



**THANK
YOU!**

