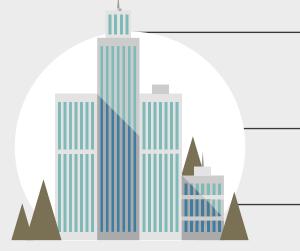
COPPER'S ROLE IN RENEWABLE ENERGY

Copper is critical for renewable energy technologies with applications in cabling, wiring, heat-exchange, and more.



GOVERNMENTS around the world are taking action to accelerate the energy transition.

As of 2020, there were:

617

Cities with **100% renewable energy targets** Source: REN21

• 1,852

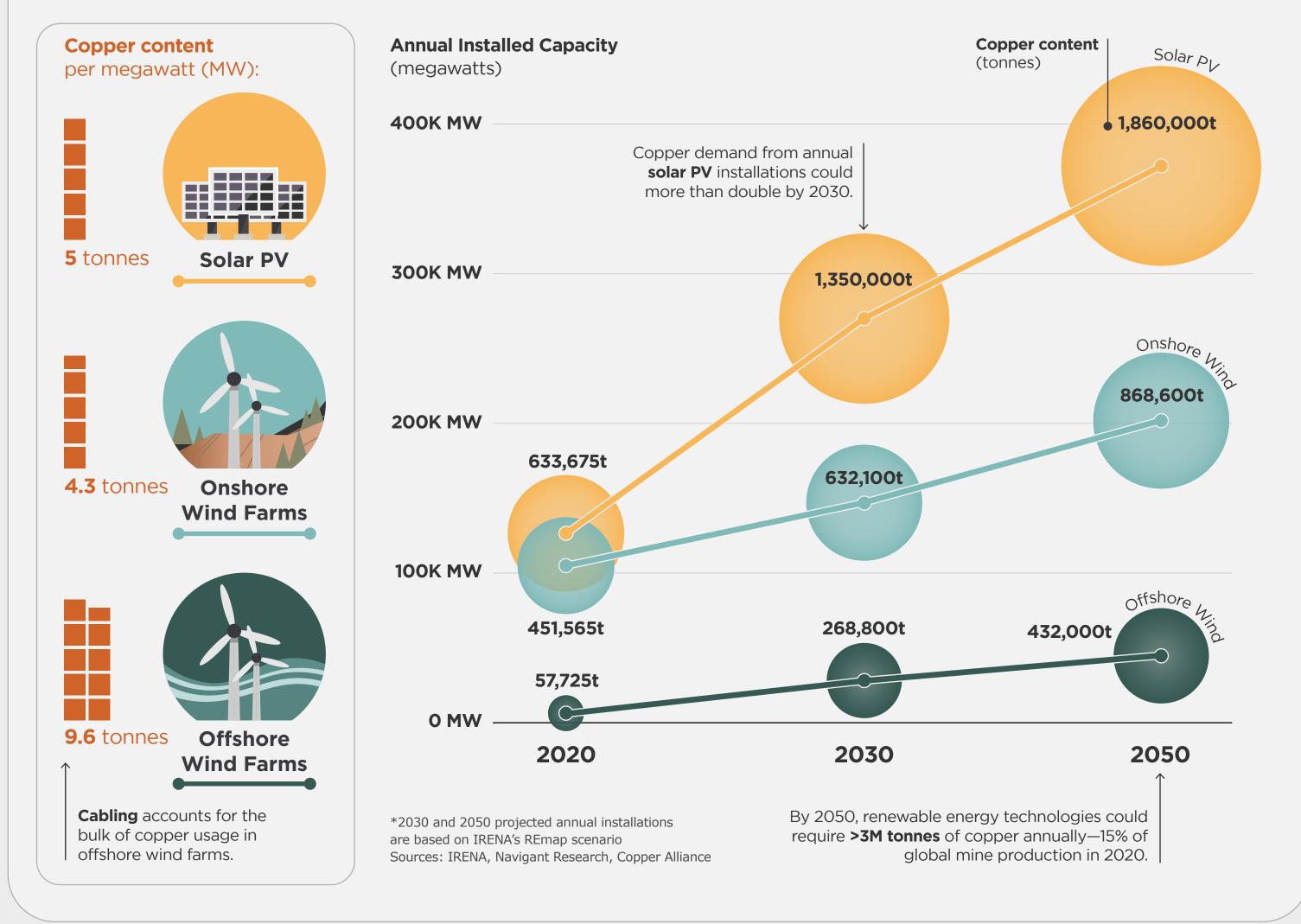
Cities with climate emergency declarations

• >10,500

Cities with emission reduction targets

The Copper Intensity of Renewable Energy

As the adoption of solar and wind technologies grows, so will the need for copper.



This demand represents just three technologies, and the overall copper market is expected to be in a >500,000-tonne deficit in 2021.

New copper mines and additional mining capacity will play a key role in meeting copper's rising demand.



Sources: REN21, IRENA, Navigant Research, Citigroup via Bloomberg



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