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How Falling Costs Make Renewables a Cost-effective Investment 02 June 2020 | Articles

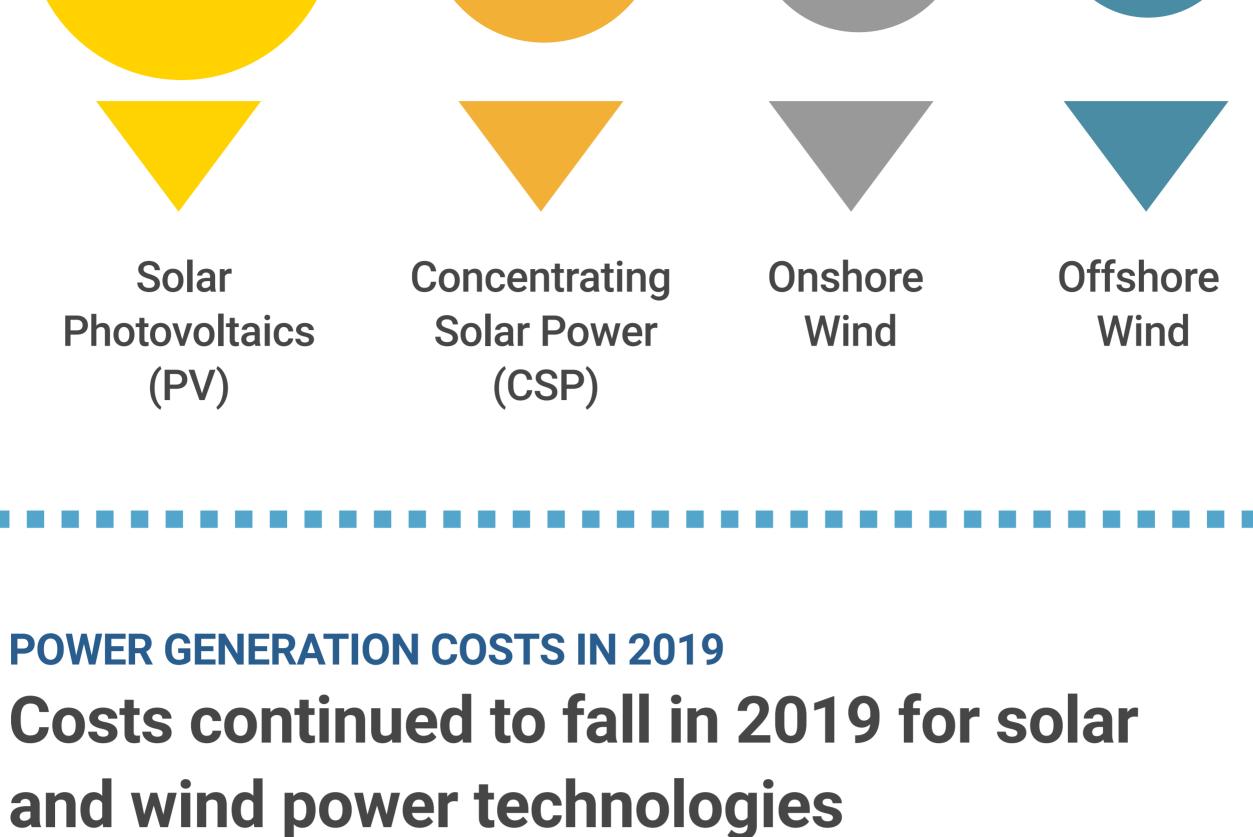
Renewable energy costs continue to fall and renewable power generation is increasingly becoming the default source of least cost new power generation. Renewable power generation technologies are not just competing head-to-head with fossil fuel options without financial support, but increasingly undercutting them, in many cases by a substantial margin. The mature renewable power generation technologies such as hydropower, bioenergy and geothermal are ongoingly competitive.

technologies.

The charts below show the continued improvement in the competitiveness of solar and wind power

Renewable En **FALLING POWER GENERATION COSTS** Renewable energy costs declined rapidly

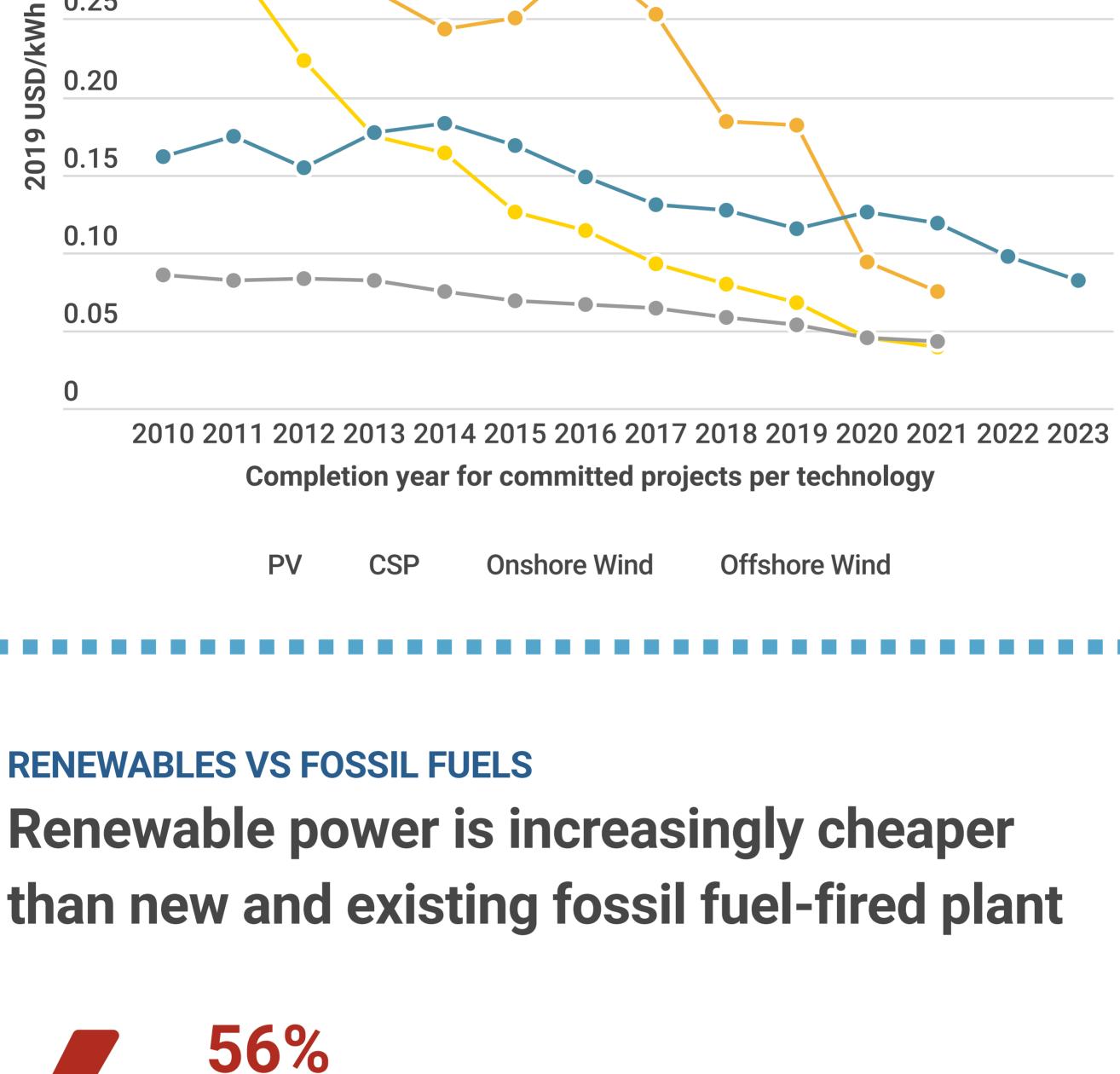
over the last 10 years (2010-2019)



0.35

0.40

0.30 0.25



23 billion

RECORD LOW PRICES IN 2019

new coal plant

of carbon dioxide (CO₂) reduction annually possible,

equalling to 5% of total global CO2 emissions last year

of capacity additions for utility-scale renewable power

in 2019 achieved lower electricity costs than cheapest

annual potential savings if the costliest 500 GW of

existing coal were replaced by solar and wind

in costs

0.4

0.3

0.1

2019 USD/kWh

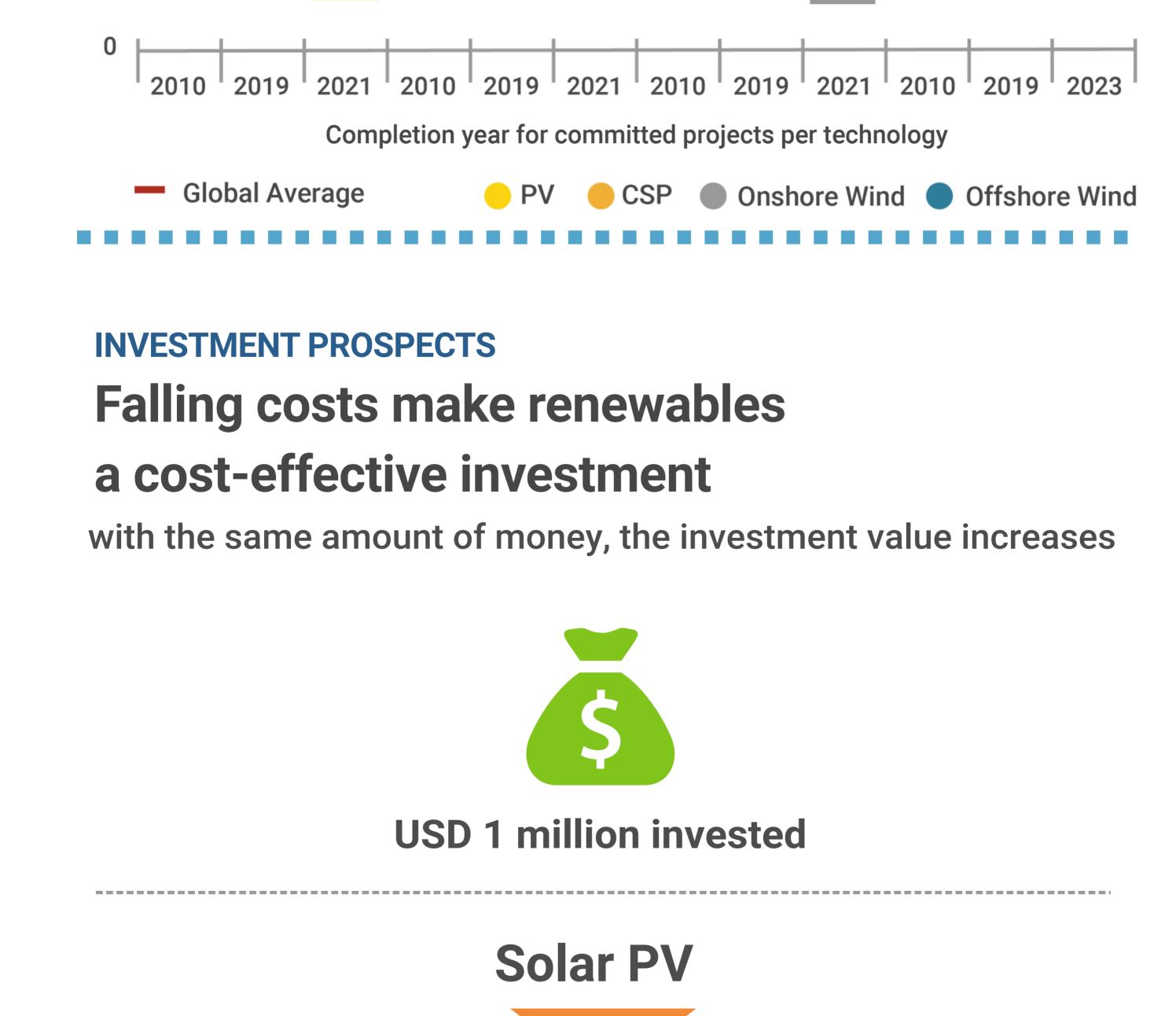
auction prices underpin the downward trend

Recent auctions results and record low

1.8 gigatons (Gt)

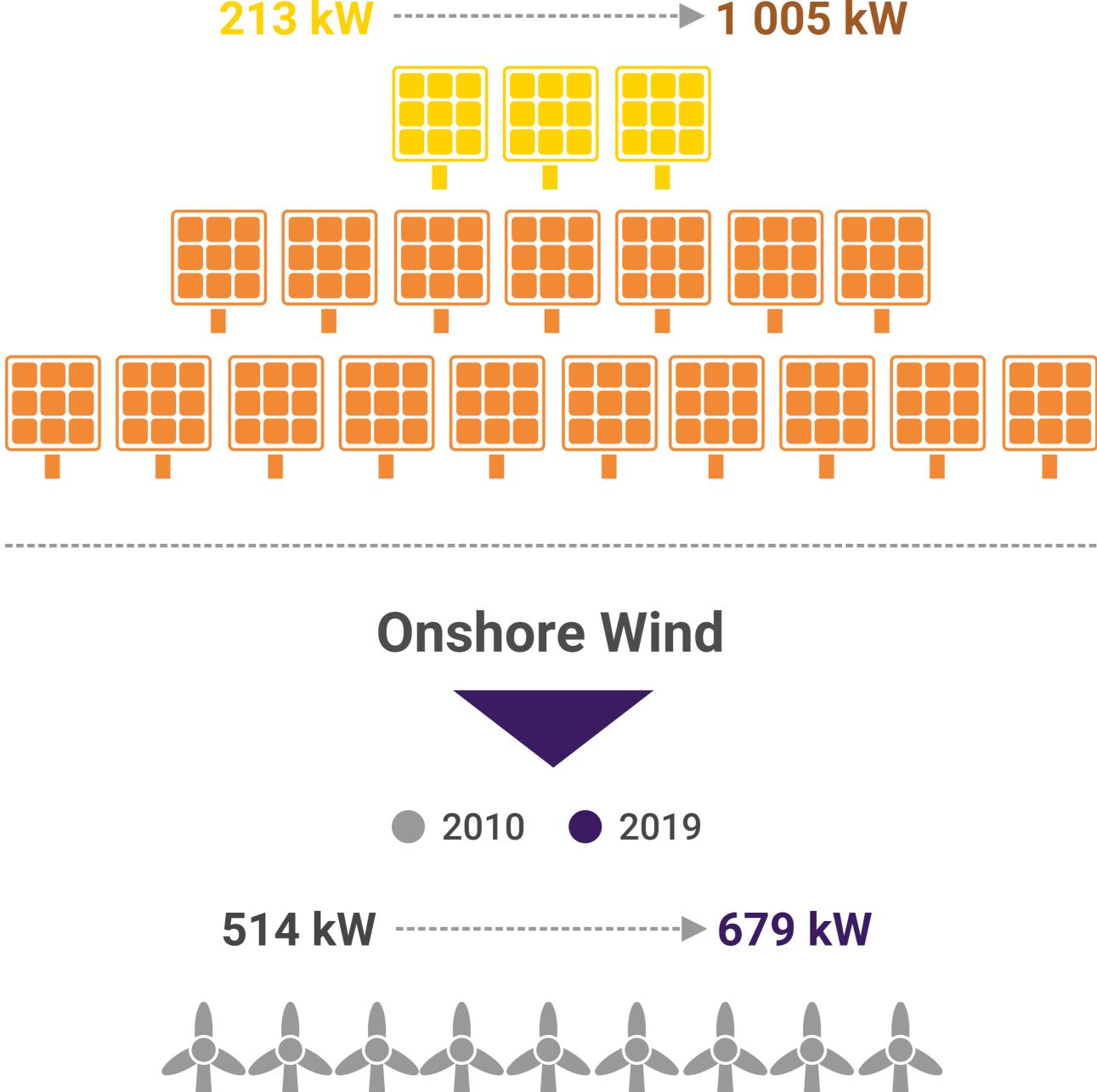
Fossil fuel

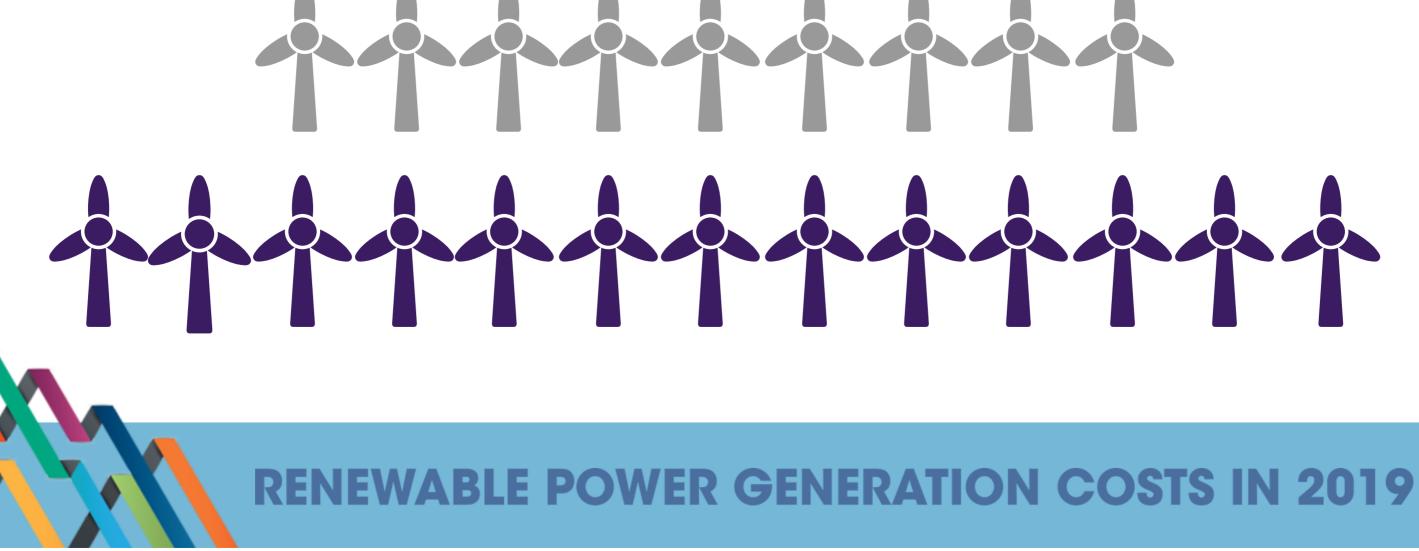
cost range



2010

2019





Develop a project (Project Navigator) Find investors/fund a project (Marketplace) Implementation of IRENA/ADFD Facility Locate a project site (Global Atlas)

Project Facilitation

(C) IDENIA

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territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

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