

Future Outlook for Solar Power

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Saudi Arabia sets new solar world record Home / News / 2018 / February / Saudi Arabia sets new solar world record

ACWA Power to develop the kingdom's first major renewables project.

ACWA Power has won the rights to develop Saudi Arabia's first utility scale solar power plant after pledging to build the project at a new world record

Located on a 6 sq km site in Al Jouf, the \$302mn Skaka IPP is expected to generate 300 MW once operational. The project marks the start of a government renewable energy procurement programme aiming to eventually produce 9.5 GW.

Mohammad Abdullah Abunayyan, chairman ACWA Power, said: "Me Fossil fuel city flips to Why Solar Is on a Path to Dominance

Yuri Horwitz details the investment, cost and technology trends driving solar forward in 2018 and beyond.

News

A Company in Japan Just Broke the Wor Record for Solar Panel Efficiency

INDUSTRY PERSPECTIVE

Engie and Suez cooperate to develop 1 GW PV capacity in France

Eskom set to end renewable uncertainty









renewables March 24, 2015 by Staff Writer * Leave a Comment

December 11, 2017 by Michael Bloch • Leave a Comment

Longi Solar Announces New World Record

with signing of 27 contracts

By John Parnell Mar 09 2018 1:04 Dec **Another Conversion** Efficiency World Record For Jinko Solar

October 27, 2017 by Michael Bloch * Leave a Co

Solargiga expanding monocrystalline module capacity by 1GW

By Mark Osborne | Mar 05, 2018 1:12 PM GMT | ■ 0





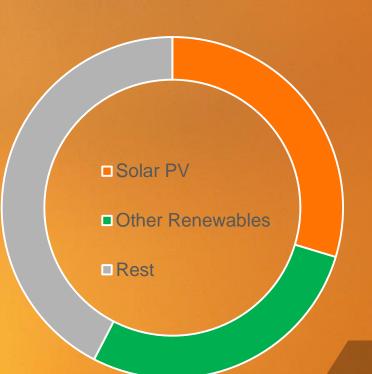
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Sources: futurism.com, thebig5hub.com, solarquotes.com.au, pv-tech.org, greentechmedia.com







THE FUTURE IS HERE ALREADY

Almost one third, 98 GW out of ~310 GW of new installed power generation capacity during 2017 was solar photovoltaic technology.

PRICE CURVES

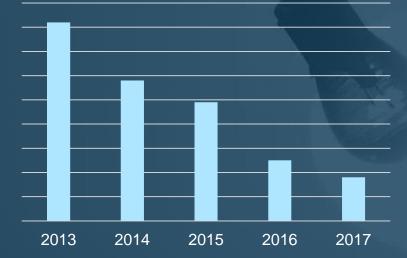




Solar photovoltaic panel prices have decreased 40% during 2014-2017.

The lowest solar power price has decreased 69% during the same period.

Lowest cost of solar power



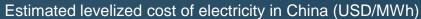
ECONOMY MEETS ENVIRONMENT

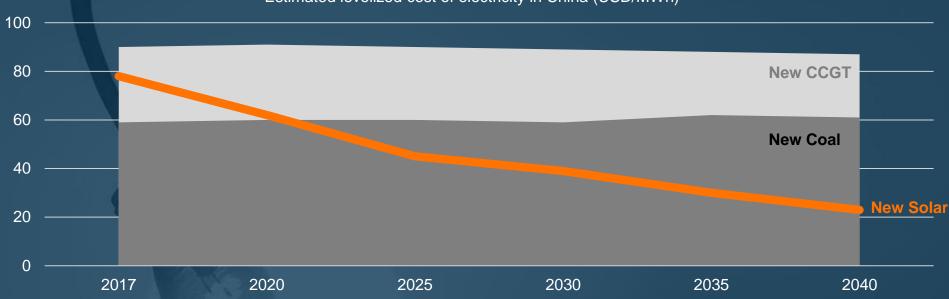
Cost of solar power has dropped significantly thanks to declining prices of solar panels and other hardware, economies of scale, and strong competition because of auction based markets.

Sources: Electrec, NREL





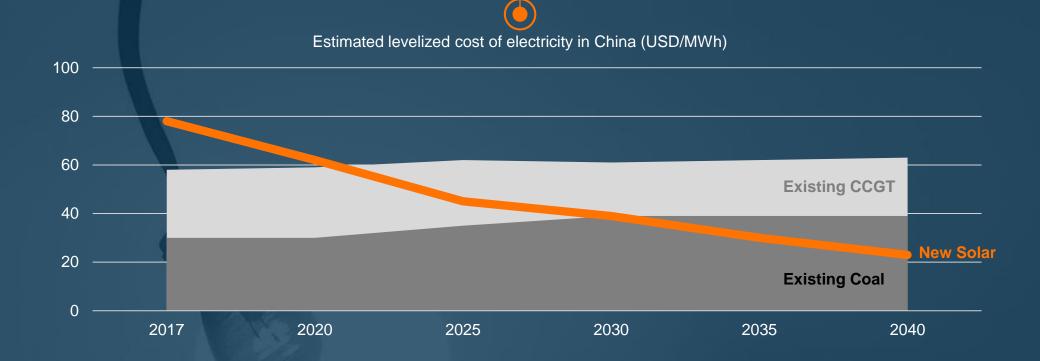




What happens when new solar power becomes cheaper than new coal power?

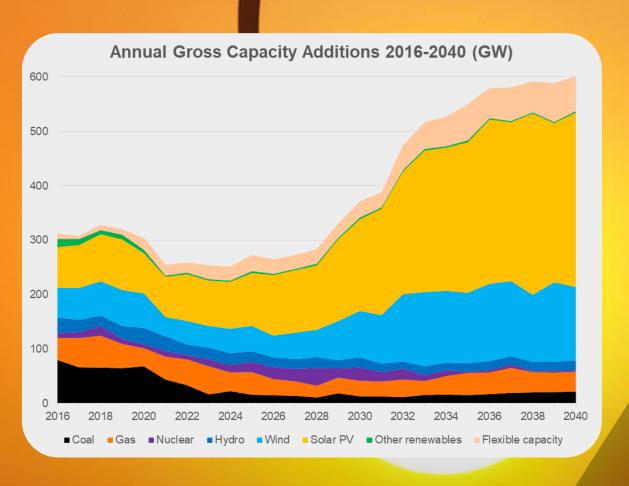
Source: Bloomberg

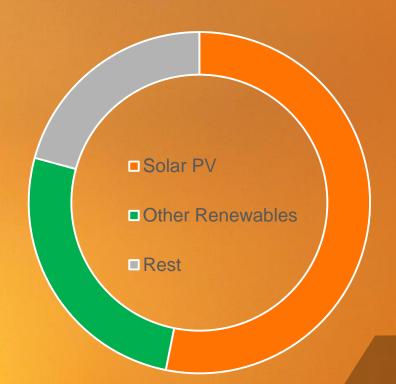




What happens when new solar power becomes cheaper than existing coal power?

Source: Bloomberg







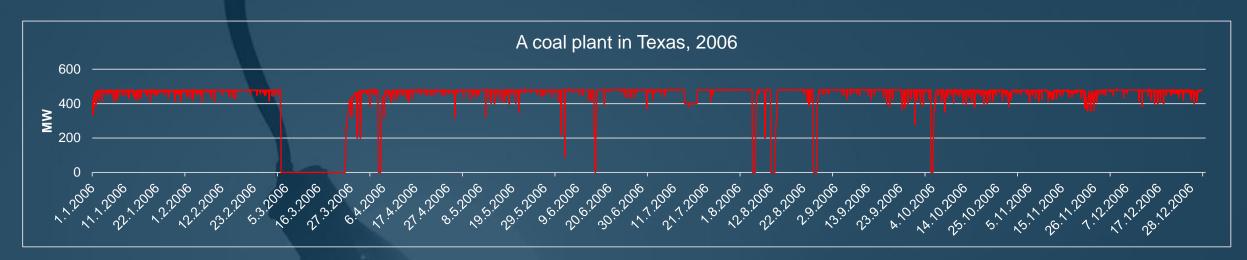
RENEWABLE BASELOAD

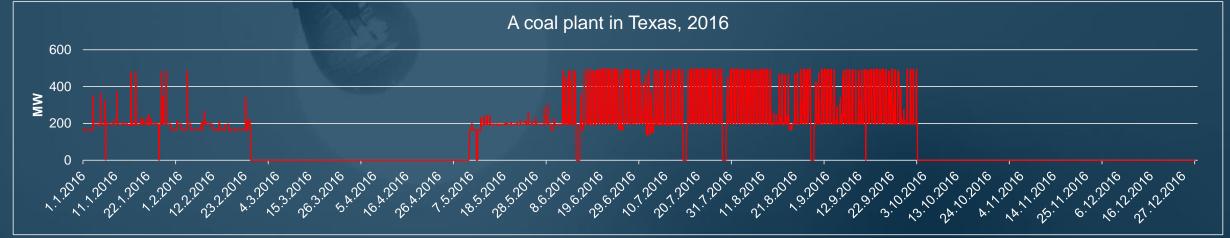
By 2040, renewables will account for over 50% of the electricity generation globally, and Solar PV alone will take more than half, ~320 out of ~600 GW of new installed power generation capacity during 2040.



Less room for inflexible power generation

More demand for flexible power generation







WE ENABLE SUSTAINABLE SOCIETIES WITH SMART TECHNOLOGIES

ENGINE POWER
GENERATION





THE ENERGY SYSTEM INTEGRATOR



OPTIMISED GENERATION



MAXIMIZE RENEWABLE PENETRATION





SYSTEM STABILITY

ENERGY

ENERGY STORAGE

ENERGY MANAGEMENT SYSTEMS

