Renewables breaking an all-time record accounting for two thirds of global net capacity additions; For the first time solar PV becoming the global leader in net capacity growth.
Renewable policies spurring more competition

Competitive tenders with long-term contracts will drive almost half of new capacity growth globally; the timing of policy transition in China may accelerate further this trend.
Price discovery through competitive auctions effectively reduces costs along the entire value chain.
Renewables growth more and more dependent on wind and solar

Renewable electricity capacity growth by technology

Solar PV enters a new era, becoming the undisputed leader in renewable power capacity growth; PV also accounts for 60% of the upside potential in the accelerated case
China continues to lead growth while India overtakes the EU

The forecast is 12% more optimistic vs. last year mainly due to solar PV revisions in China and India; Growth could be 27% higher with enhanced policies addressing regulatory uncertainties and grid integration
China holds the key to the new solar PV era

China’s share in global solar PV manufacturing and demand

China influences the global market volumes and prices of solar PV
With government policies and innovative business models, off-grid PV capacity triples in Africa and developing Asia. Small home systems bring initial electricity access to almost 70 million by 2022.
Renewables closing the gap with coal

Renewable generation to expand by over a third with its share increasing from 24% in 2016 to 30% in 2022, rapidly closing the gap with coal.
Wind and solar transforming power sector - system integration becomes key

More flexible power systems, adapted market design and policies will have to play a key role in integrating larger shares of wind and solar in a secure and cost-effective way.
Renewables to supply almost a third of EV demand in 2022

Global electricity consumption by EVs and share of renewable consumption in 2016 and forecast for 2022

China accounts for almost 90% of global EV electricity consumption in 2022, mostly from 2/3 wheelers, and remains the largest electric car market, followed by Europe and the United States.
Surging EVs to complement biofuels in renewable transport

Biofuels and electric vehicles contribution to renewable energy consumption in road transport

Share of renewables in road transport increases from 4% in 2016 to almost 5% in 2022. Biofuels represent 80% of the growth in the next five years led by Asia & Brazil.
Progress in renewable heat depends on strong policies

Renewables share in heat consumption rises from 9% in 2016 to 11% in 2022. China leads absolute growth with new targets; EU remains the largest renewable heat consumer while total heat demand outpaces renewables growth in India.
Concluding remarks

➢ Renewables rise by 1,000 GW to 2022, equal to half of current total coal capacity

➢ Renewables generation exceeds 8,000 TWh by 2022, equal to total electricity consumption of China, India & Germany combined

➢ Solar PV enters a new era leading the growth in renewables, driven by a rapid expansion in deployment & manufacturing capacity in China

➢ Despite rapid growth in EVs, decarbonisation of transport is a long way off

➢ Only 30% of electricity used by EVs is sourced from renewables

➢ Advanced biofuels require specific incentives to bolster deployment

➢ Policymakers have to turn their focus to system integration & expanding the use of renewables for heating & cooling
Thank you

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