

Accelerating the clean energy transitions and mobilizing investment

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IEA at COP24



- The IEA Family now covers almost 75% of global energy demand
- The IEA offers unparalleled data, rigorous analysis and real-world solutions
- "All Fuels and All Technologies" with global clean energy hub capabilities
- The IEA helps countries and companies to accelerate their own clean energy transitions
- IEA analysis is key to tracking progress of global energy transitions
 - Assessing progress on energy transitions, under the Talanoa Dialogue and beyond
 - Helping to drive further NDC ambition





Global energy-related CO2 emissions

Global emissions are set to increase in 2018 - again The world is not moving towards the Paris goals, but rather away from them







Achieving goals require early emissions peak & sharp decline; CO₂ needs to fall to 1960 levels (with global economy 20 times larger); innovation absolutely critical

Tracking Clean Energy Progress (TCEP) - a new web platform



Industry Buildings Power Transport Building Cement • Electric vehicles Renewable power • Nuclear power codes International shipping Chemicals Solar PV Natural gas-fired power Heating Steel Fuel economy Onshore wind • Coal-fired power Cooling Trucks Aluminum • CCS in power Offshore wind • Lighting • Transport biofuels • Pulp and paper Hydropower Appliances & • CCS in industry Aviation equipment Bioenergy Rail Data centres Geothermal and networks Concentrating solar power Ocean **Energy Integration** Demand response Hydrogen Energy storage Smart grids Digitalization Renewable heat





For the 3rd consecutive year energy investment declined in 2017, by 2%, due to less power generation investment, lower costs and continued prudence in the oil and gas sector. Energy efficiency was a lone growth area.

A major shift in investment flows in a sustainable world



Cumulative energy investment needs in the Sustainable Development Scenario, 2018-40



The Sustainable Development Scenario requires 15% higher investment, but there is a marked difference in capital allocation towards power and efficiency

The IEA Clean Energy Transitions Programme





In November 2017, 13 IEA member countries launched the CETP: a multi-year, EUR 30 million commitment, enhancing IEA capabilities to support countries with their clean energy transitions

Clean Energy Transitions Programme – 2019 planning

- Data and statistics: engagements with new countries / regions and deeper work in key focus countries (Indonesia, India, Mexico)
- Energy efficiency: continued work based on extensive E4 activities (capacity building, policy support, sharing best practices), strong support from Mexico, Brazil, China, India, Indonesia
- Electricity transitions: very strong interest from wide variety of countries (China, India); continued ramp-up and focus on integration
- Policy and modelling: enhance capability; holistic approach, focus on ETS (China), long-term planning (India), policy packages (South Africa)
- Sectors: focus on transport (GEF), industry, hydrogen, bioenergy and digitalization
- Innovation: strengthening cross-agency innovation efforts; enhanced work with India and Brazil



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The IEA works around the world to support accelerated clean energy transitions that are

enabled by real-world SOLUTIONS

supported by ANALYSIS

and built on DATA



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