

Accelerating the clean energy transitions and mobilizing investment

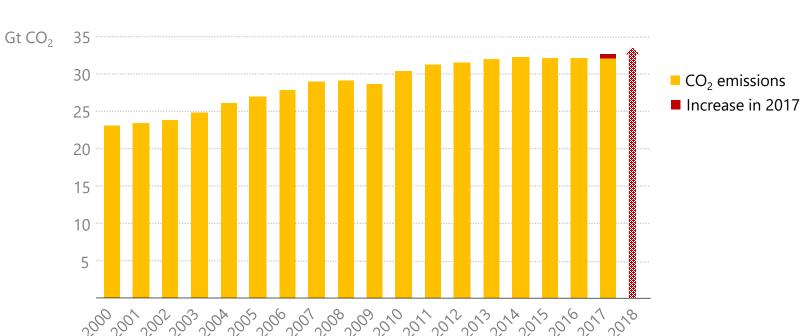
Dave Turk, Head of Strategic Initiatives Office, IEA

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- The IEA Family of countries now covers almost 75% of global energy demand
- The IEA, a global clean energy hub, helps countries and companies to better achieve their clean energy transitions
- The IEA offers unparalleled data, rigorous analysis and real-world solutions across all fuels and all technologies
- 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 emissions are on the rise again

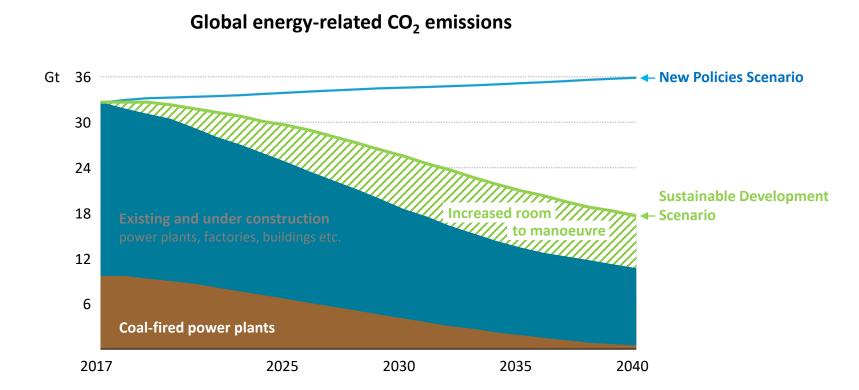


Global energy-related CO2 emissions

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

Can we unlock a different energy future?





Coal plants make up one-third of CO₂ emissions today and half are less than 15 years old; policies are needed to support CCUS, efficient operations and technology innovation



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Tracking Clean Energy Progress

Informing Energy Sector Transformations

The IEA's newly-enhanced Tracking Clean Energy Progress provides a comprehensive and rigorous assessment of a full range of energy technologies and sectors that are critical in a global clean-energy transition. It includes the most up-to-date information for where technologies are today and where they need to be according to the IEA's **Sustainable Development Scenario**, a pathway to reach the Paris Agreement well below 2°C climate goal, deliver universal energy access and significantly lower air pollution.

Are clean energy technologies on track?

Some technologies have made tremendous progress in 2017 – particularly solar PV, LEDs and EVs – but most are not on track. Energy efficiency improvements have slowed and progress on key technologies like carbon capture and storage remains stalled.

Click on a sector or technology for a detailed assessment of recent trends and progress.

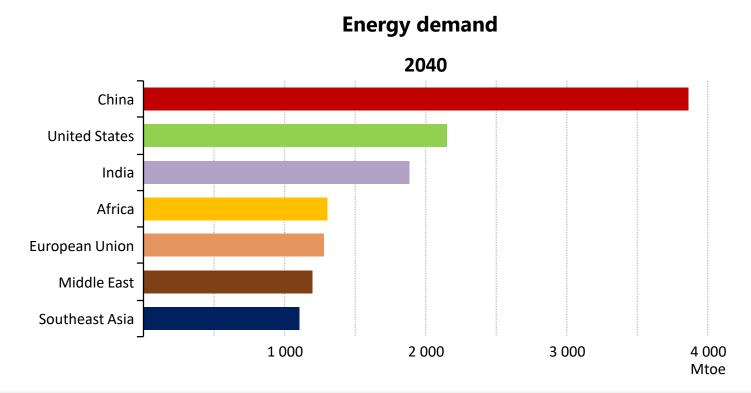
On track • More efforts needed • Not on track P One to watch

Power	Buildings	😑 Transport	🥚 Industry	Energy integration	
Renewable power	Building envelopes	Electric vehicles	😐 Chemicals 🔎	🗧 Energy storage 🔎	
Solar PV	Heating	Fuel economy of cars &	🧧 Iron & Steel	Smart grids Demand response Digitalization Hydrogen Renewable heat	
Onshore wind	Cooling 🔎	vans	Cement		
👴 Offshore wind 🔎	Lighting	Trucks & buses	Pulp & paper		
Hydropower	Appliances & equipment	Transport biofuels	Aluminium		
Bioenergy	Data centres & networks	Aviation	CCUS in industry &		
Geothermal		International shipping P	transformation		
 Concentrating solar power 		Rail			
Ocean					
 Nuclear power 					
 Natural gas-fired power 					
Coal-fired power					

About the TCEP methodology

The new geography of energy





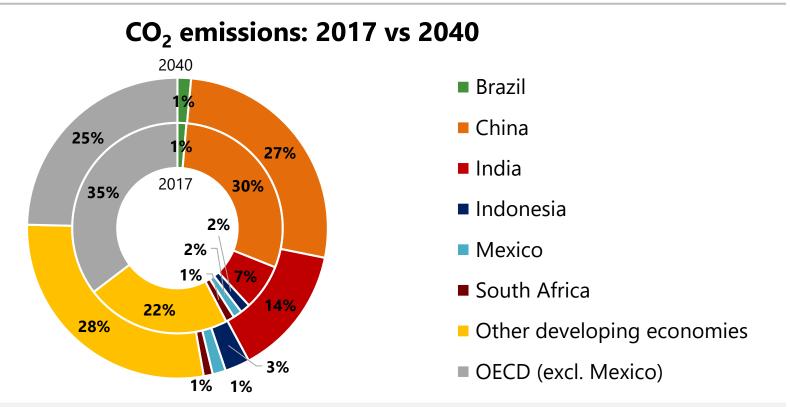
In 2000, more than 40% of global demand was in Europe & North America and some 20% in developing economies in Asia. By 2040, this situation is completely reversed

The IEA Clean Energy Transitions Programme embodies this approach 🔖



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





Developing economies are becoming the main source of CO2 emissions

Overview of the Clean Energy Transitions Programme



Five main areas	Data and stati	istics		ïciency (E4 se 2)	Systems integration; electricity		an	Technology development and innovation		
	Policy guidance and modellingStrategic policy planningClean energy transitions in sectors									
Four principle modalities	Training and ca building	•	collabor	nnical ation and port	Country-level policy review and guidance			Bi/Pluri/Multi lateral dialogue		
Six key countries	Brazil	Chin	ina India		Indonesia		Mexico	South Africa		
+ broader geographical impact		Association countries		Regional focus		Global focus (e.g. stats)				

The CETP is an all-of-IEA effort, involving 10 substantive Divisions across all Directorates, and strong support from the Office of Global Energy Relations, as well as financial and legal teams



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



www.iea.org/COP24

