

# BROWN TO GREEN



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The G20 transition to a low carbon economy

Monday 3 July 2017, 10 – 11 am CEST



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# AGENDA

- **Welcome by Peter EIGEN (Co-Chair Climate Transparency)**
- **Presentation of the Brown to Green Report (10:10 – 10:25)**
  - Niklas HÖHNE (NewClimate Institute)
  - Charlene WATSON (Overseas Development Institute)
  - Jan BURCK (Germanwatch)
- **Comments on country performance (10:25 - 10:35)**
  - Jiang KEJUN (Energy Research Institute, China)
  - Swati AGARWAL – Video Statement (TERI, India)
  - Enrique MAURTUA KONSTANTINIDIS (FARN, Argentina)
- Lars GROTEWOLD – Video Statement (Stiftung Mercator)
- **Questions & Answers**

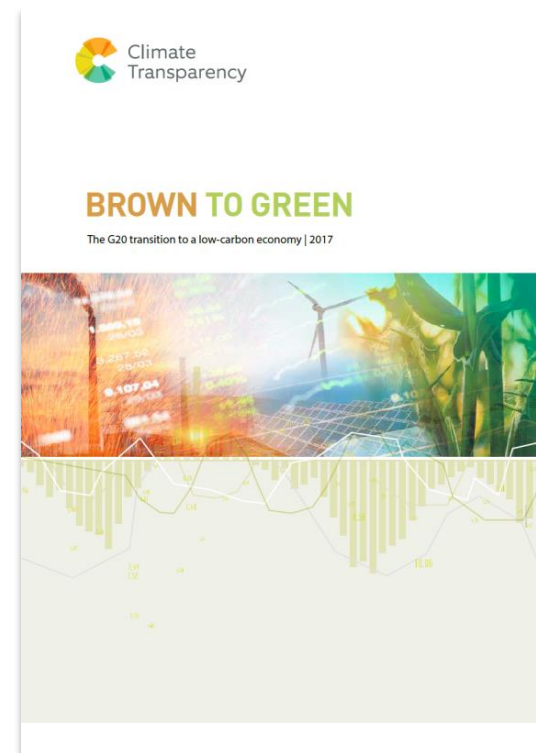
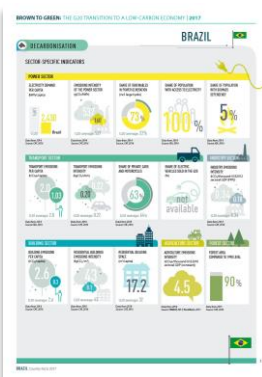
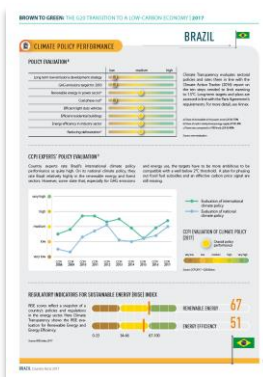
# CLIMATE TRANSPARENCY: RAISING AMBITION THROUGH LEARNING AND COMPETITION

 GREENHOUSE GAS (GHG) EMISSIONS DEVELOPMENT

 CLIMATE POLICY PERFORMANCE

 FINANCING THE TRANSITION

 DECARBONISATION



# MAIN FINDINGS:

## Decarbonisation has begun but too slow



### GREENHOUSE GAS (GHG) EMISSIONS DEVELOPMENT

- GHG emissions are still rising, but energy-related CO<sub>2</sub> emissions have stalled



### CLIMATE POLICY PERFORMANCE

- International performance better than national policy and implementation
- Policies and Paris Agreement pledges are not sufficiently ambitious for well below 2°C or 1.5°C
- Canada, France and the UK have established a plan for a coal phase-out



### FINANCING THE TRANSITION

- G20 countries are attractive for renewable energy investment, especially China, France, Germany and the UK
- G20 countries' public finance institutions spent almost USD 88 billion a year on coal, oil and gas

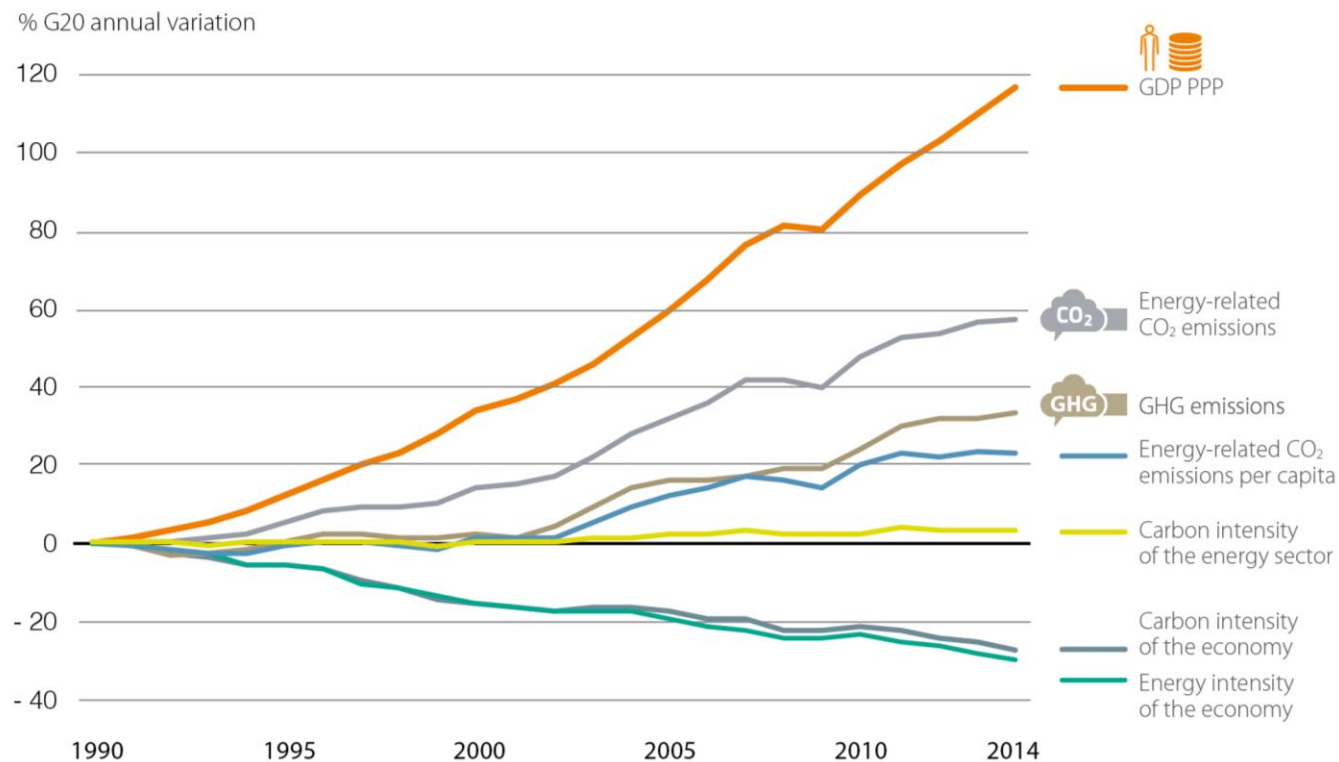


### DECARBONISATION

- In most G20 countries, renewables are growing, except in Russia. China, the Republic of Korea, Turkey and the UK have all experienced strong growth
- Coal and fossil fuels still dominate in the G20 energy mix. Australia, China, India and South Africa have the highest shares of coal in energy supply



## KEY INDICATORS ON THE G20 TRANSITION TO A LOW-CARBON ECONOMY



Source: IEA, 2016; PRIMAP, 2017; World Bank, 2017

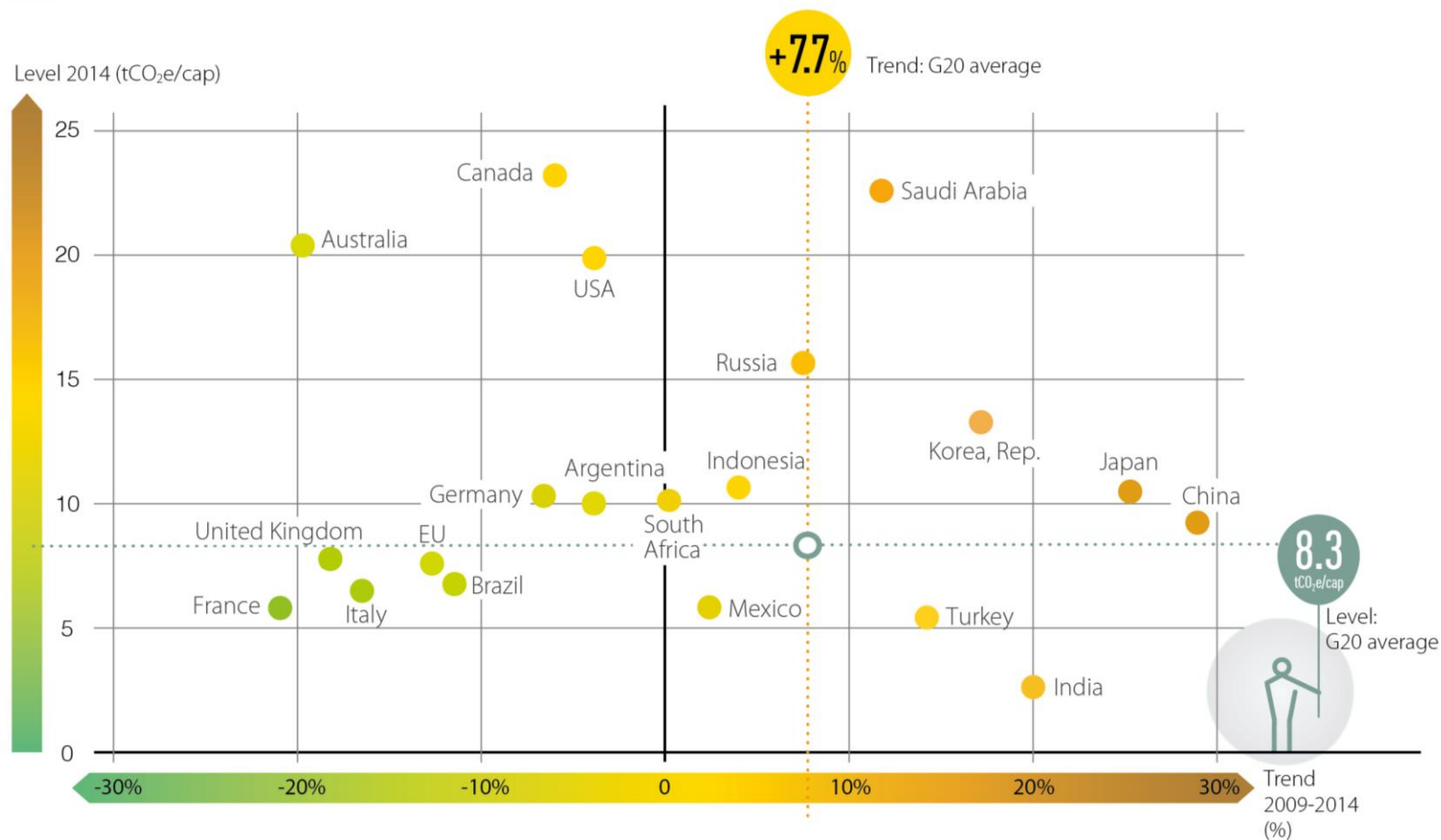


## GREENHOUSE GAS (GHG) EMISSIONS DEVELOPMENT





## GREENHOUSE GAS EMISSIONS PER CAPITA



Source: CCPI 2017; PRIMAP, 2017





# CLIMATE POLICY PERFORMANCE



- High: Canada, France, Germany, Mexico

- High: Canada, France and the UK have established a plan for a coal phase-out

- Low: Australia, EU, Indonesia, South Africa, Turkey, US

- High: India is the only G20 country that has announced a total ban on new fossil fuel-driven cars from 2030
- Low: Argentina, Australia, Indonesia and South Africa, Australia, Indonesia and South Africa

The G20 transition to a low-carbon economy | 2017

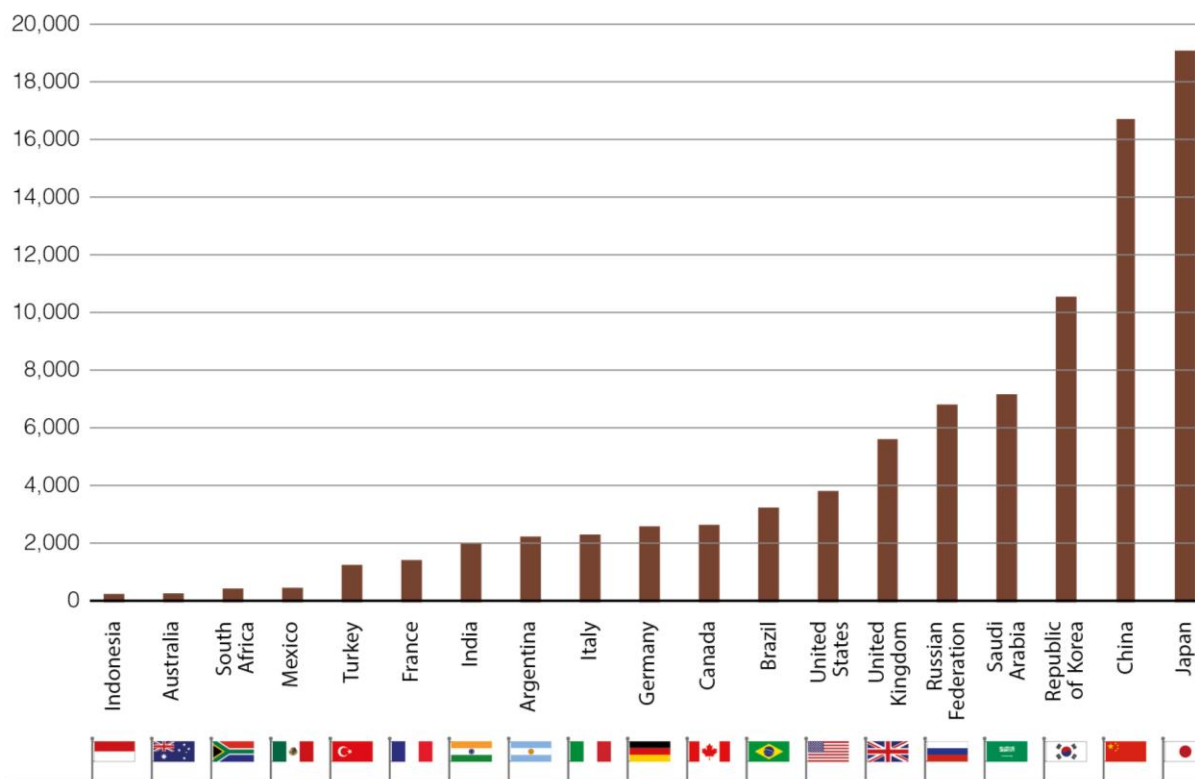


# FINANCING THE TRANSITION



## G20 PUBLIC FINANCE FOR FOSSIL FUELS

Million US\$, annual average, 2013 and 2014



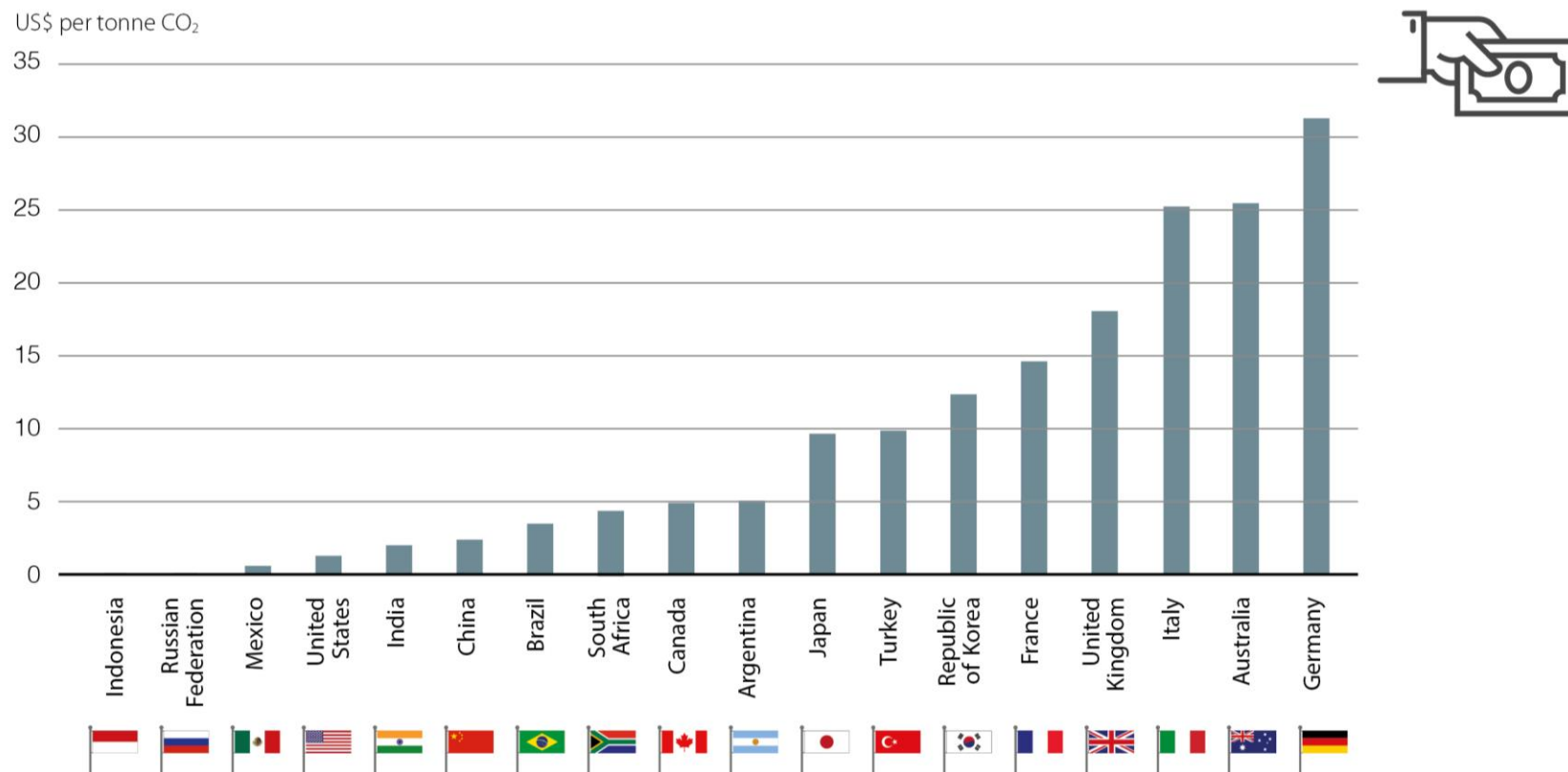
Source: ODI/OCI, 2015







## EFFECTIVE CARBON RATE (NON-ROAD ENERGY, 2012)



Source: OECD, 2012



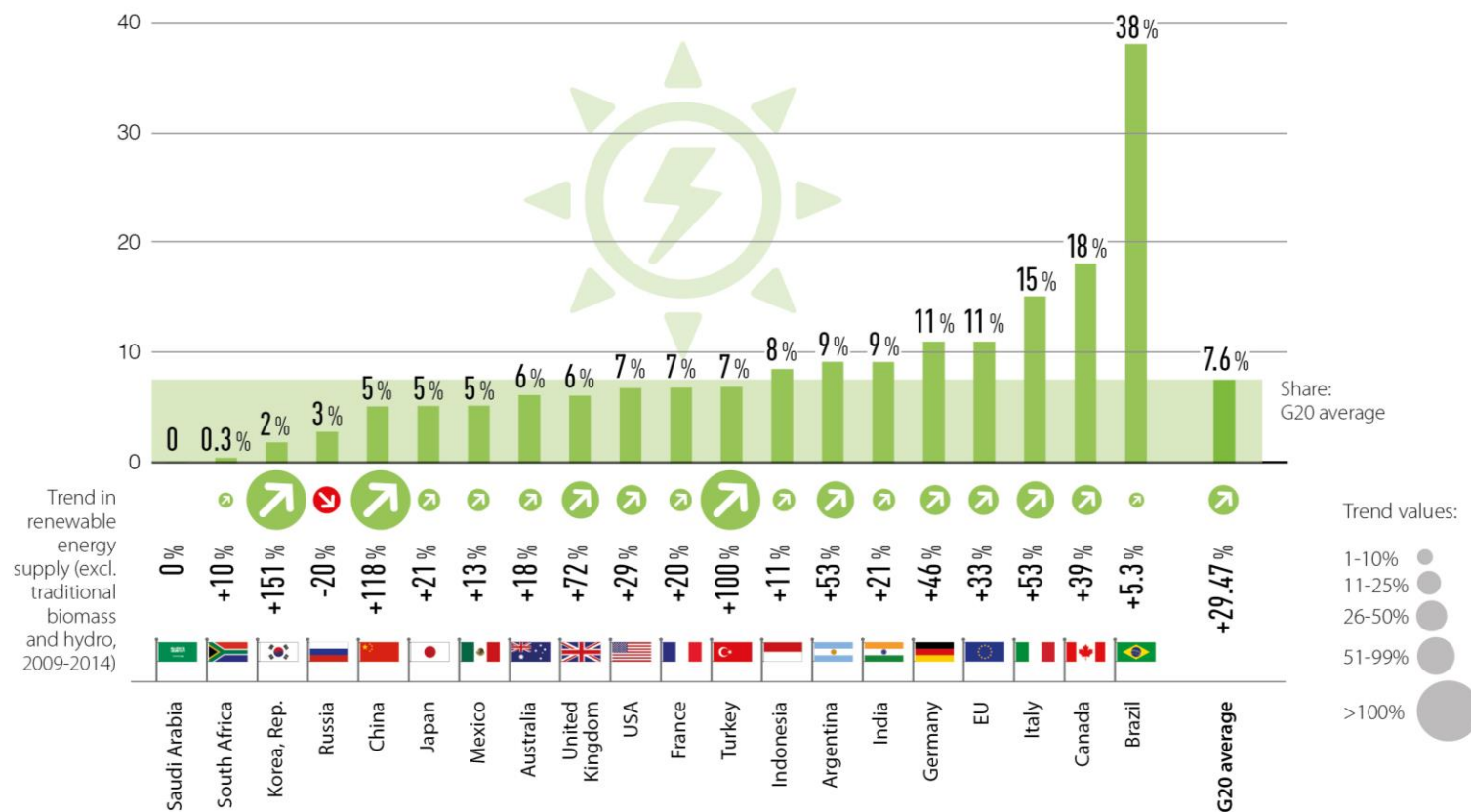


# DECARBONISATION



## SHARE AND TREND OF RENEWABLES IN TOTAL PRIMARY ENERGY SUPPLY (2009-2014)

Share of renewable energy  
(excl. traditional biomass, incl. hydro) in 2014 (%)

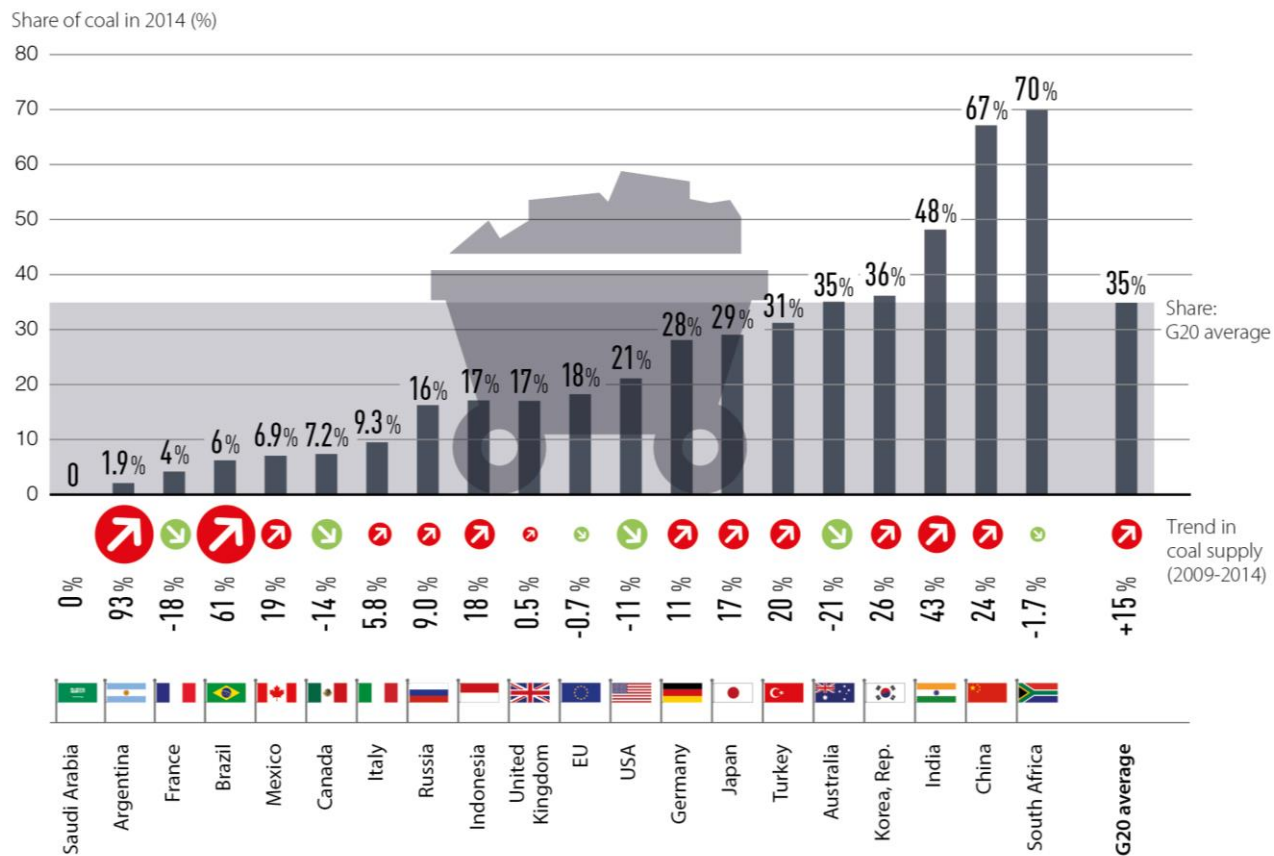


Source: IEA, 2016





## SHARE AND TREND OF COAL IN TOTAL PRIMARY ENERGY SUPPLY (2009-2014)



Source: IEA, 2016





# G20 DECARBONISATION PERFORMANCE RATING

CO <sub>2</sub>		Emissions	Energy intensity of the economy	Carbon intensity of the energy sector	Energy use per capita	Share of coal in TPES	Share of renewables in TPES
		Overall rating*	Current level (2014)	Current level (2014)	Overall rating**	Current level (2014)	Current level (2014)
	Argentina						
	Australia						
	Brazil						
	Canada						
	China						
	European Union (28)						
	France						
	Germany						
	India						
	Indonesia						
	Italy						
	Japan						
	Korea, Rep.						
	Mexico						
	Russian Federation						
	Saudi Arabia						
	South Africa						
	Turkey						
	United Kingdom						
	United States						

## Share of renewables

High rating: Brazil, Canada, Indonesia, Italy

Low rating: Republic of Korea, Russia, Saudi Arabia, South Africa

## Share of coal

High rating: Brazil, France, Saudi Arabia

Low rating: Australia, China, India, South Africa

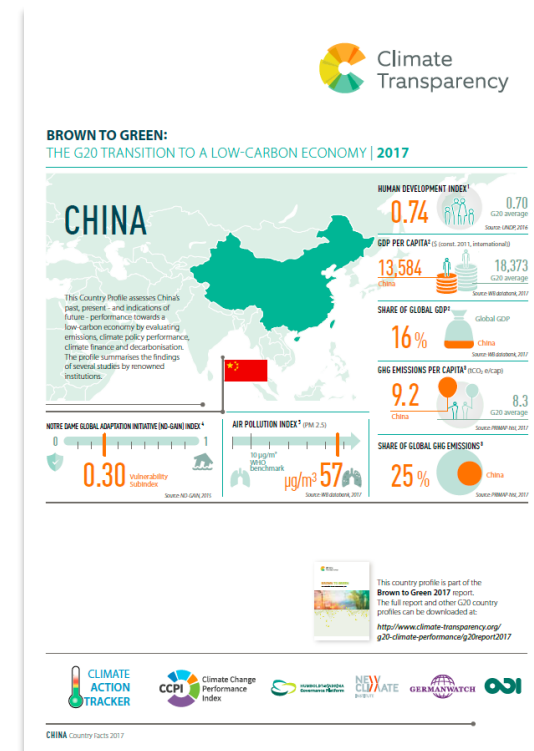




# CHINA: Climate is a priority



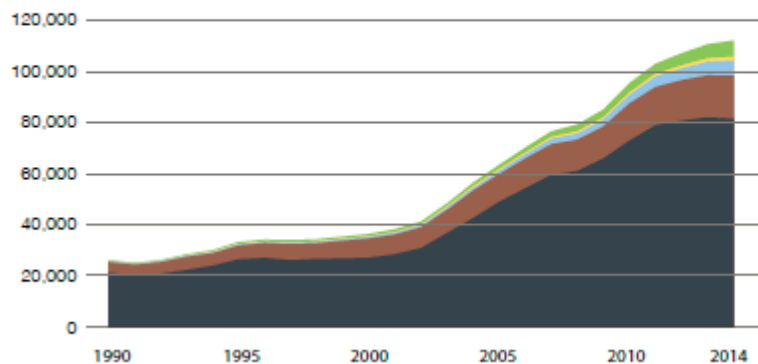
- Climate was one of the priorities of the Chinese G20 Presidency in 2016.
- China is becoming a leading force in international climate politics.



# CHINA: Dependent on coal, but strong growth of renewables

ENERGY MIX <sup>21</sup>

Total Primary Energy Supply (PJ)

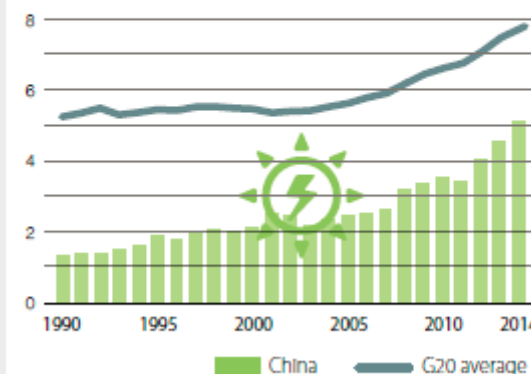


Note: numbers might not add up to 100% due to exclusion of residential biomass from the share of renewables.  
Source: IEA, 2016

SHARE OF RENEWABLES IN ENERGY SUPPLY <sup>23</sup>

China's share of renewable energy in the energy mix has increased steadily over the past couple of decades. At 5% in 2014, the share of renewables was however still below the G20 average.

Share of renewables (incl. hydro and excl. residential biomass) (%)

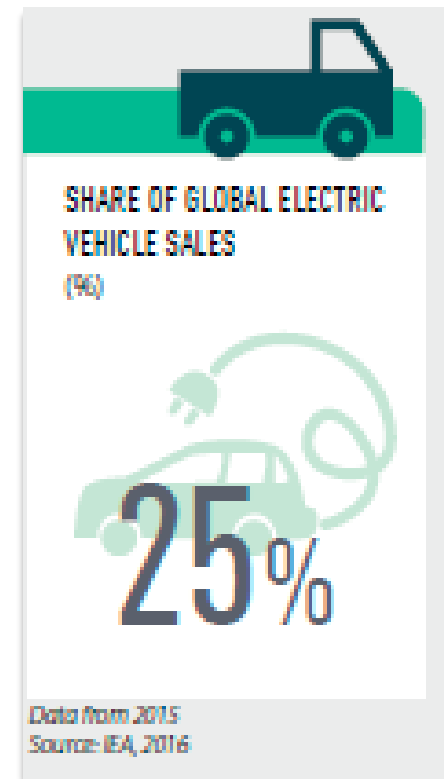


Source: IEA, 2016

## CHINA: Emissions may peak soon after 2020 ...

### Positive Developments:

- Support for electric vehicles.
- Government has reduced new coal power plants from 400GW to less than 200GW.
- Power generation from coal fired plant may already peak.
- Country wide emissions trading scheme in 2017



... Emissions may peak much earlier than expected!



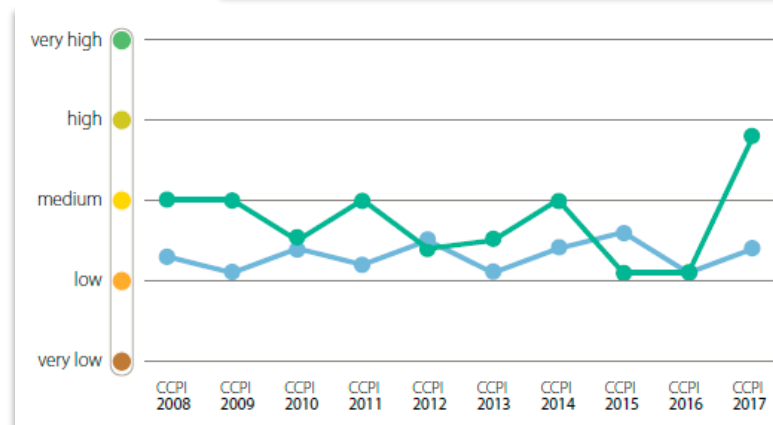
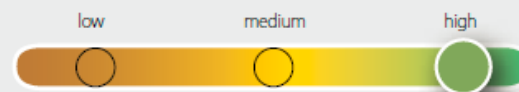
**Swati AGARWAL**, The Energy and Resource Institute - TERI, India

## ARGENTINA: New policies, many changes and a lot of expectations

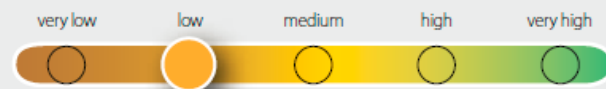
- New Government in Dec 2015, change in policies and approaches. Openness to Markets.
- 33% Poverty
- Many National budget cuts including FFS
- Renewables rulebook and 2 successful Tenders in '16
- Review of NDC process a CC Strategy
- Challenges remain with regards stranded assets (Nuclear, Big Hydro, Land Use, and Shale Oil/Gas )



### RENEWABLE ENERGY COUNTRY ATTRACTIVENESS INDEX (RECAI)<sup>12</sup>



### ALLIANZ CLIMATE AND ENERGY MONITOR<sup>11</sup>





# ARGENTINA: G20 Presidency 2018

## G20 Agenda 2018

- Developing Country Agenda.
- POVERTY, EDUCATION and EMPLOYMENT as key issues.
- Sustainability more as transversal issue.
- Climate will be much more oriented to Adaptation
- Opportunity for Argentina to improve Climate Policies

## FARN & Climate Transparency in 2018

- Close follow up of Climate Developments
- Brown To Green Report in Buenos Aires
- Capacity Building
- Empowerment of Civil Society for Advocacy





Video available on Youtube  
<https://www.youtube.com/watch?v=DYa7AX8RLxg>

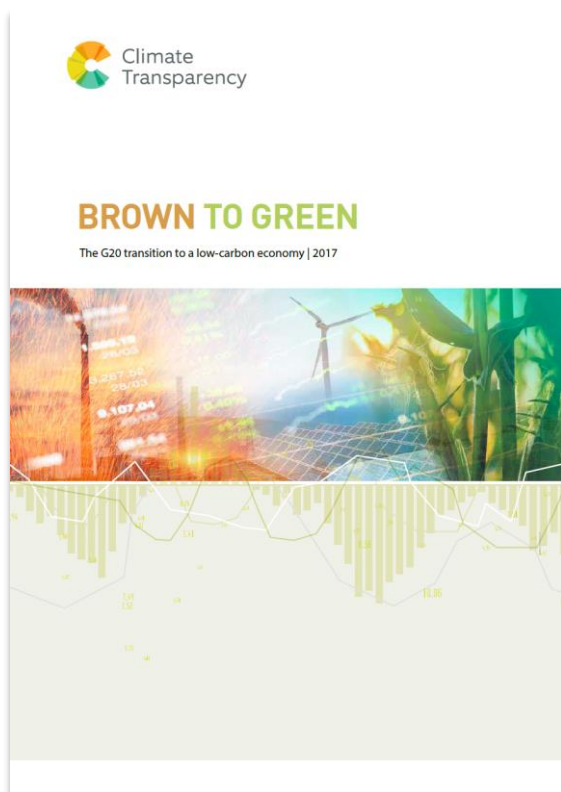
**Lars GROTEWOLD**, Stiftung Mercator - Germany

## Questions & Answers

**Dear Participants, you are invited to send questions via the chat function.**

Questions will automatically only be visible to the administrator of the webinar. Please kindly note that we might not be able to discuss all of your questions during the Q&A session, but will follow up on them via email.

# THANK YOU FOR JOINING!

**Contact us:**

[info@climate-transparency.org](mailto:info@climate-transparency.org)

**For media:**

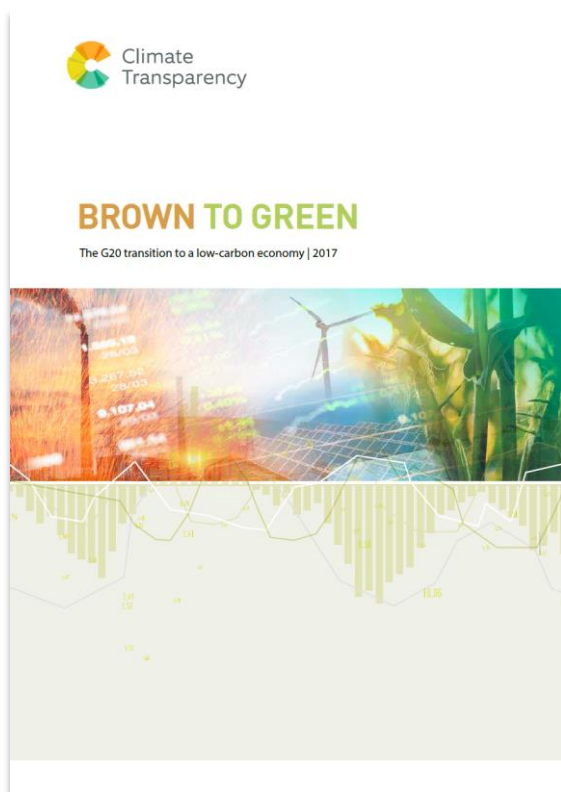
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