

BROWN TO GREEN:

THE G20 TRANSITION TO A LOW-CARBON ECONOMY | 2018

CHINA

GREENHOUSE GAS (GHG) EMISSIONS
(INCL. FORESTRY) PER CAPITA
(tCO₂e/capita)



Data from 2015 | Source: PRIMAP 2018



The gap:

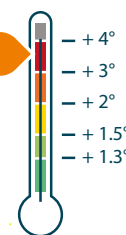
Is China on track to stay below the Paris Agreement temperature limit?

Based on implemented policies, China's GHG emissions are expected to increase to between 11,779 and 13,437 MtCO₂e by 2030 (excl. forestry). This is not in line with an emission pathway compatible with the Paris Agreement.¹

China's NDC, with CO₂ emissions peaking around 2030, is not consistent with the Paris Agreement's temperature limit but would lead to a warming of between 3°C and 4°C.²

China shows strong progress on energy efficiency for buildings and renewable energy but generally sectoral policies still fall short of being consistent with the Paris Agreement, especially on coal.³

Current NDC²



Source: CAT 2018

Recent developments:

What has happened since the Paris conference?



China's coal consumption increased again in 2017, after a three-year decline, bringing uncertainty over the country's future coal use.



China announced in 2017 the launch of an emissions trading scheme for its power sector, with a trial period from 2019.



China has exceeded its 2020 renewable electricity target of 105 GW installed capacity three years early. More than half of new global solar PV capacity in 2016 and 2017 was installed in China.

Brown and green performance:

Where does China lead or lag compared to G20 countries?

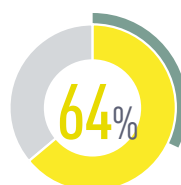
ENERGY INTENSITY OF THE ECONOMY
Total Primary Energy Supply in TJ per GDP in million US\$2015 (PPP)



G20 average: 4.72

Data from 2017 | Source: Enerdata 2018

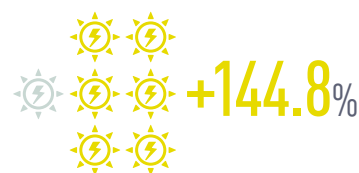
SHARE OF COAL IN THE ENERGY MIX
%



G20 average: 32%

Data from 2017 | Source: Enerdata 2018

2012-2017 TREND IN SHARE OF NEW RENEWABLES IN THE ENERGY MIX



G20 average: +27.9%

Source: Enerdata 2018

This country profile is part of the **Brown to Green 2018** report. The full report and other G20 country profiles can be downloaded at: <http://www.climate-transparency.org/g20-climate-performance/g20report2018>

BACKGROUND INDICATORS:
CHINA

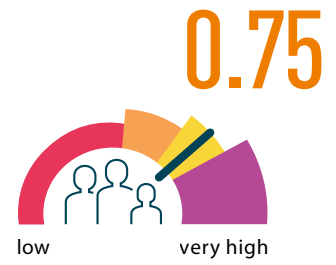


GDP PER CAPITA⁴
(PPP US\$ const. 2015, international)



Source: World Bank 2017

HUMAN DEVELOPMENT INDEX⁵



Data from 2017 | Source: UNDP 2018

CHINA'S EXPOSURE TO CLIMATE IMPACTS⁶

This indicator shows the extent to which human society and its supporting sectors are affected by the future changing climate conditions based on an approximately 2°C scenario. This sectoral exposure will be even higher given that the efforts depicted in current NDCs will lead to an approximately 3°C scenario.



FOOD



Projected climate impacts on cereal yields



Projected increase of food demand due to population growth



WATER



Projected climate impacts on annual run-off



Projected climate impacts on annual groundwater recharge



HEALTH



Projected climate impacts on a spread of malnutrition and diarrhoeal diseases



Projected climate impacts on spread of vector-borne diseases



ECOSYSTEM SERVICE



Projected climate impacts on biomes occupying the countries



Projected climate impacts on marine biodiversity



HUMAN HABITAT



Projected climate impacts on frequency of high temperature periods



Projected climate impacts on frequency and severity of floods



INFRASTRUCTURE



Projected climate impacts on hydropower generation capacity



Proportion of coastline impacted by sea level rise

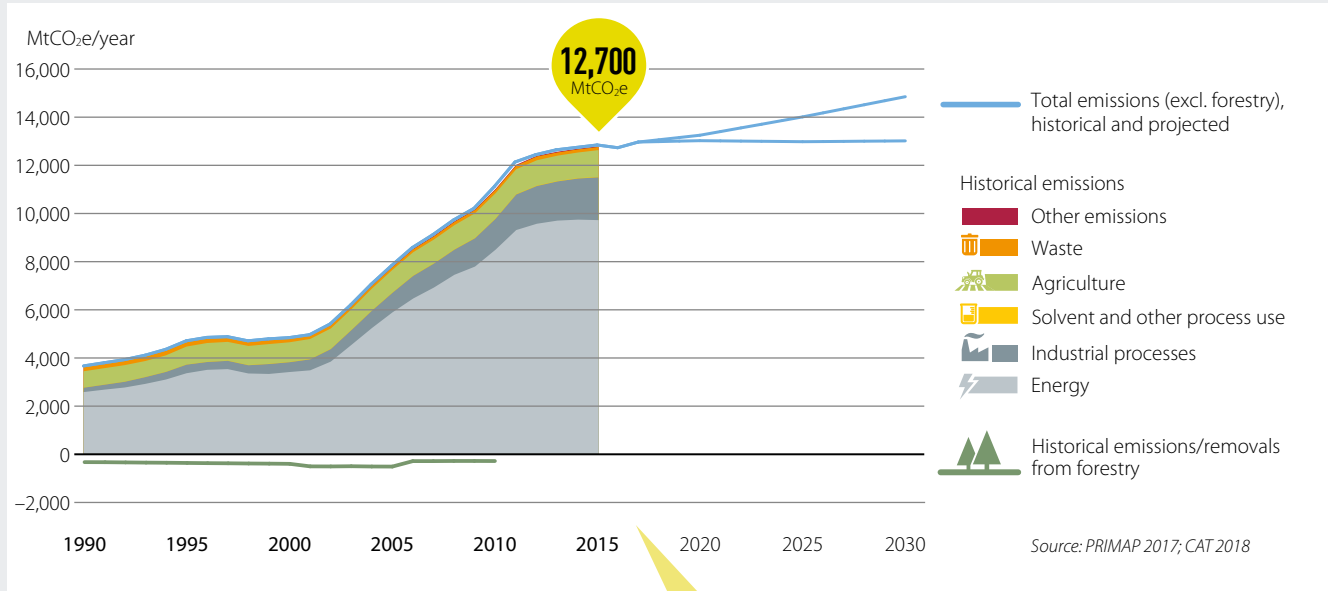


Own composition based on ND-GAIN 2017 (based on data for 2016)

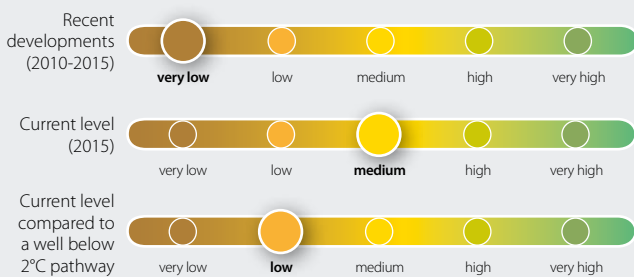
GREENHOUSE GAS (GHG) EMISSIONS

CHINA

TOTAL GHG EMISSIONS ACROSS SECTORS⁷

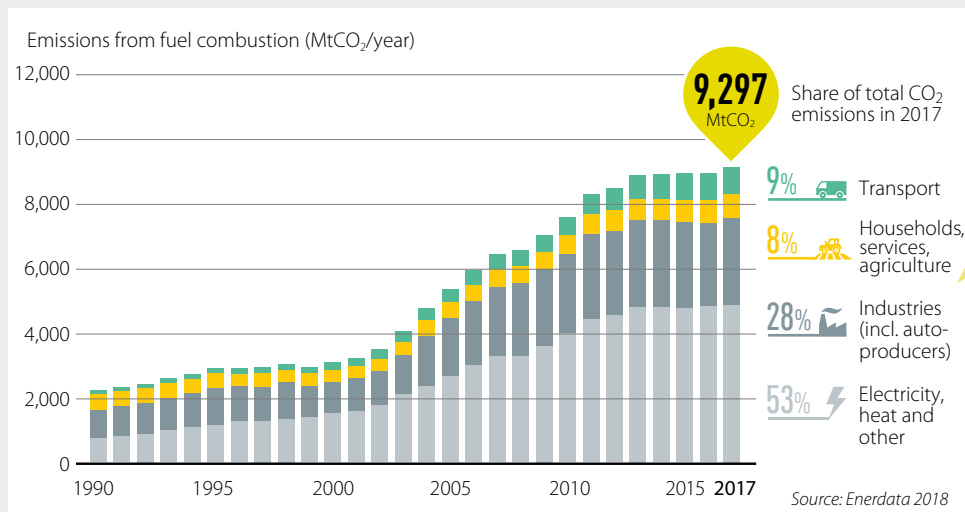


CCPI PERFORMANCE RATING OF GHG EMISSIONS PER CAPITA⁸



China's emissions more than tripled between 1990 and 2015, and per capita emissions are now above the G20 average. Since 2013 this trend has slowed down considerably and is expected to flatten towards 2030. The energy sector is by far the largest contributor to national emissions.

ENERGY-RELATED CO₂ EMISSIONS⁹

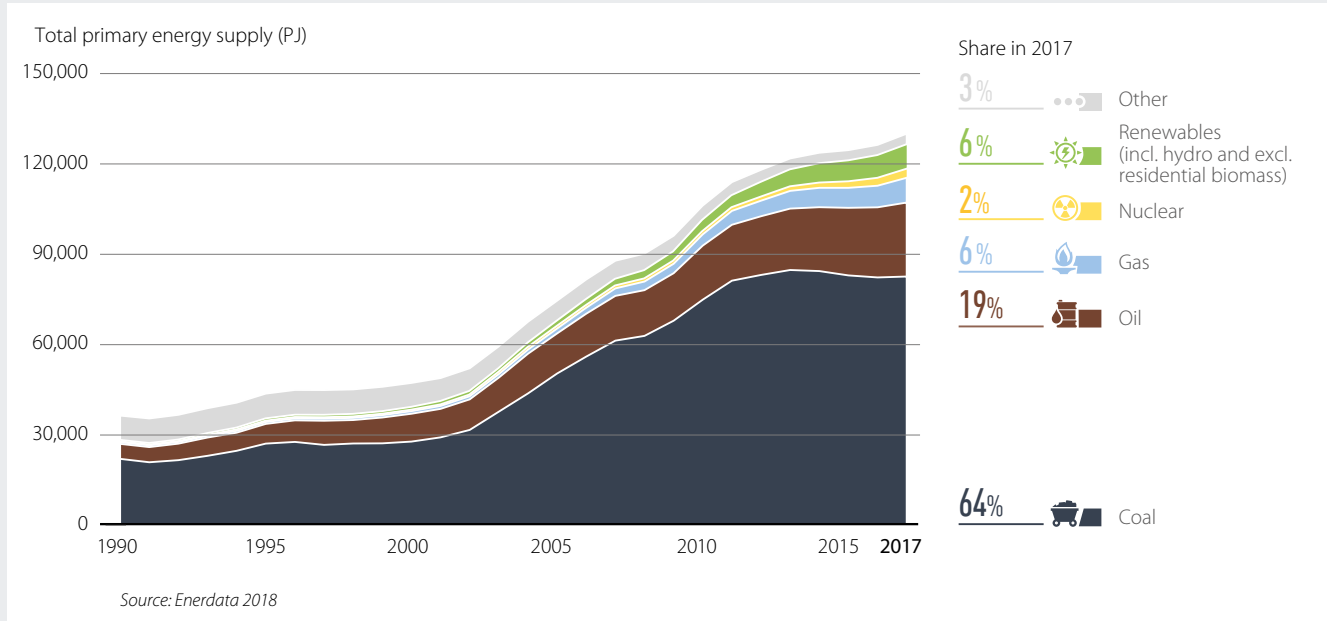


The largest driver for overall GHG emissions are CO₂ emissions from energy, which increased in China by 8% (2012–2017), at a much slower pace than in previous years. Power generation and industries make up the largest share.

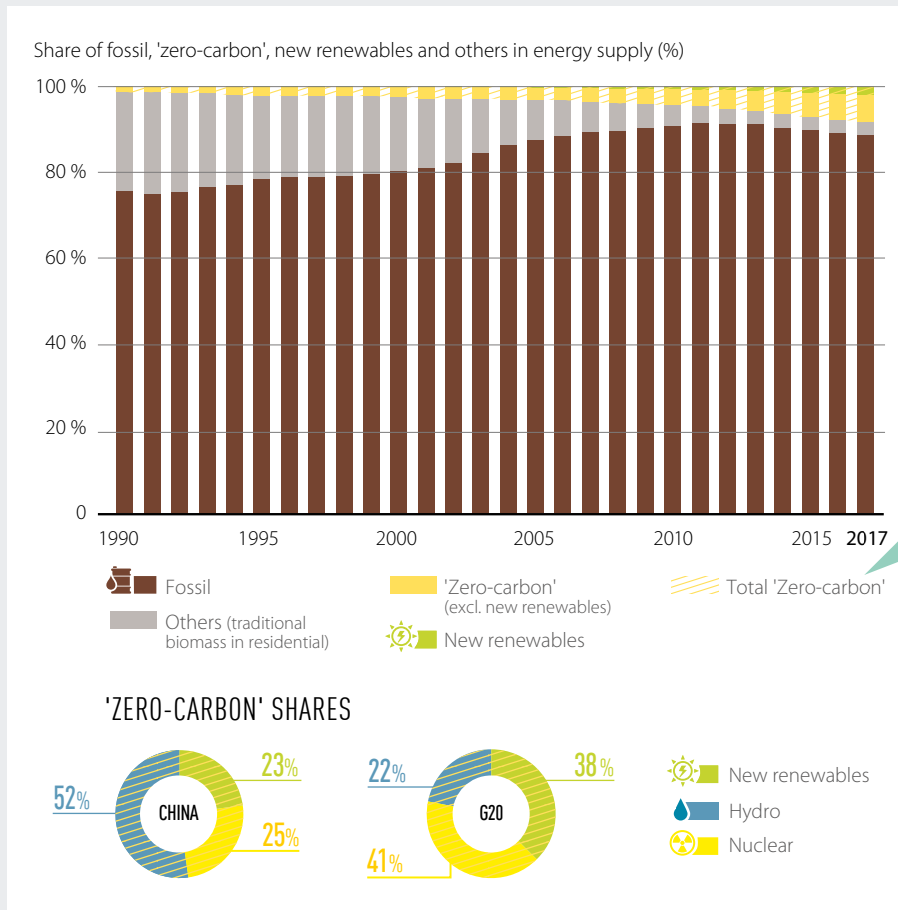
DECARBONISATION

CHINA

ENERGY MIX¹⁰



SHARE OF FOSSIL FUELS AND 'ZERO-CARBON' FUELS IN ENERGY SUPPLY¹¹



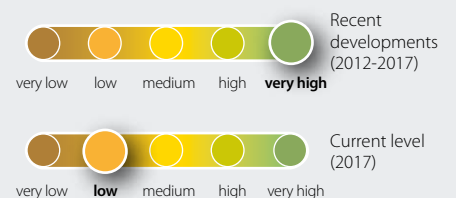
PERFORMANCE RATING OF SHARE OF FOSSIL FUELS¹²



Source: own evaluation

Zero-carbon fuels include nuclear, hydropower, new renewables. In China, the share of these in the energy mix has more than doubled (2012–2017) but at 8%, is still below the G20 average (14%).

PERFORMANCE RATING OF SHARE OF ZERO-CARBON TECHNOLOGY¹²

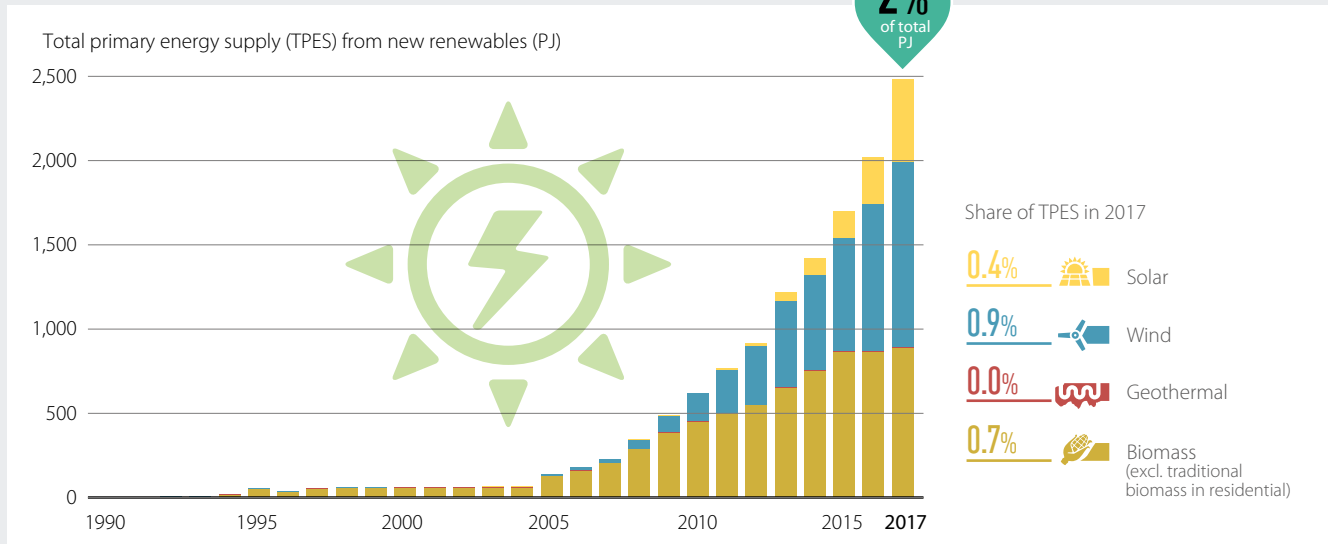


Source: own evaluation

DECARBONISATION

CHINA

NEW RENEWABLES¹³



Source: Enerdata 2018

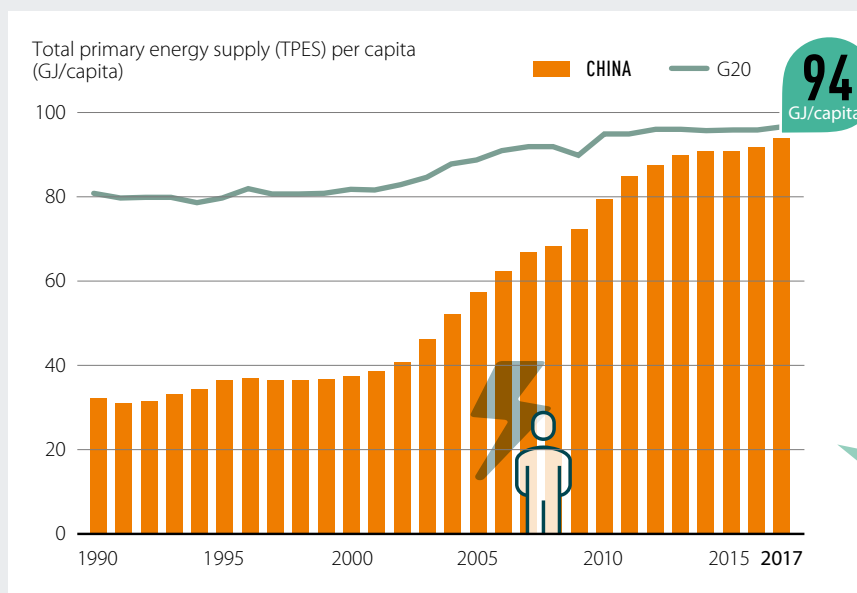
"New renewables" includes solar, wind, geothermal and biomass (excl. traditional biomass in residential use) energy. China sources only 2% of its energy supply from new renewables but shows one of the highest growth rates in the G20: energy production from wind, biomass, solar and geothermal energy increased by 170% (2012–2017).

PERFORMANCE RATING OF NEW RENEWABLES¹²



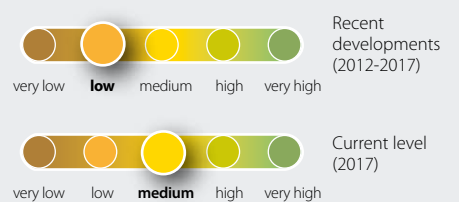
Source: own evaluation

ENERGY USE PER CAPITA¹⁴



Source: Enerdata 2018

PERFORMANCE RATING OF ENERGY USE PER CAPITA¹²



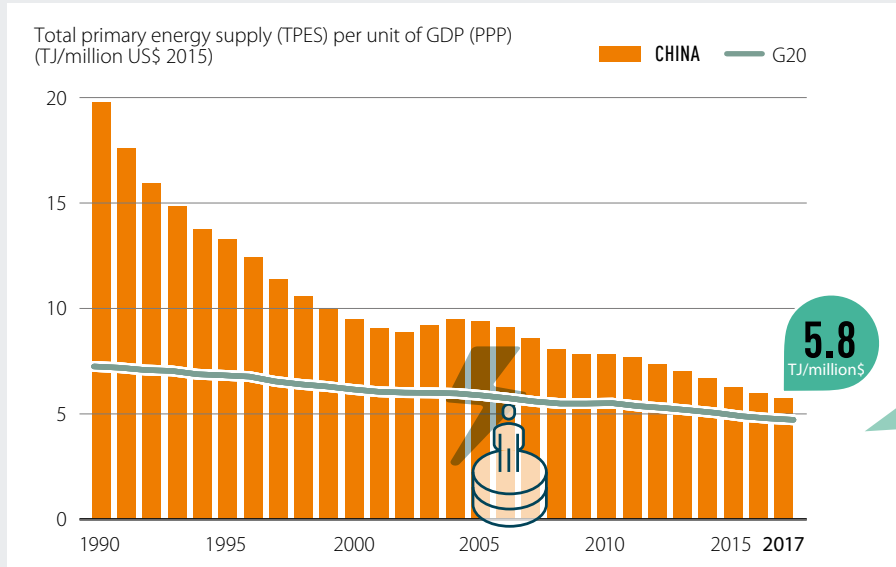
Source: own evaluation

Energy use per capita in China has increased by 7% (2012–2017) and is now slightly below the G20 average.

DECARBONISATION

CHINA

ENERGY INTENSITY OF THE ECONOMY¹⁵



This indicator quantifies how much energy is used for each unit of GDP. China's energy intensity has decreased rapidly (-22% over 2012–2017) and much faster than the G20 (-11%) but the level is still slightly above the G20 average.

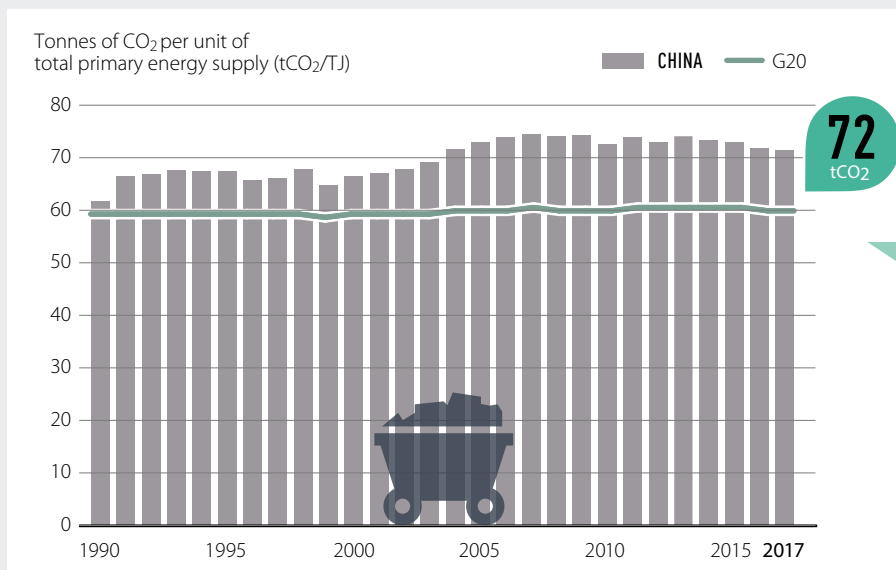
Source: Enerdata 2018

PERFORMANCE RATING OF ENERGY INTENSITY¹²



Source: own evaluation

CARBON INTENSITY OF THE ENERGY SECTOR¹⁶



The carbon intensity of China's energy sector has decreased slightly, reflecting a decreasing share of fossil fuels in the energy mix, but at 72 tCO₂/TJ, it remains well above the G20 average (59 tCO₂/TJ).

Source: Enerdata 2018

PERFORMANCE RATING OF CARBON INTENSITY¹²



Source: own evaluation

DECARBONISATION

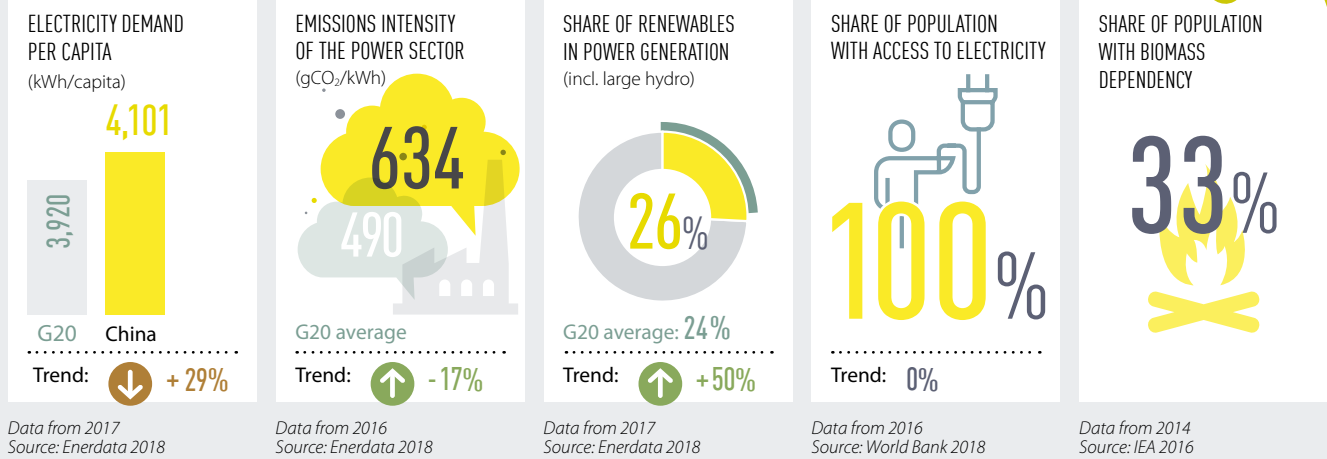
CHINA

SECTOR-SPECIFIC INDICATORS

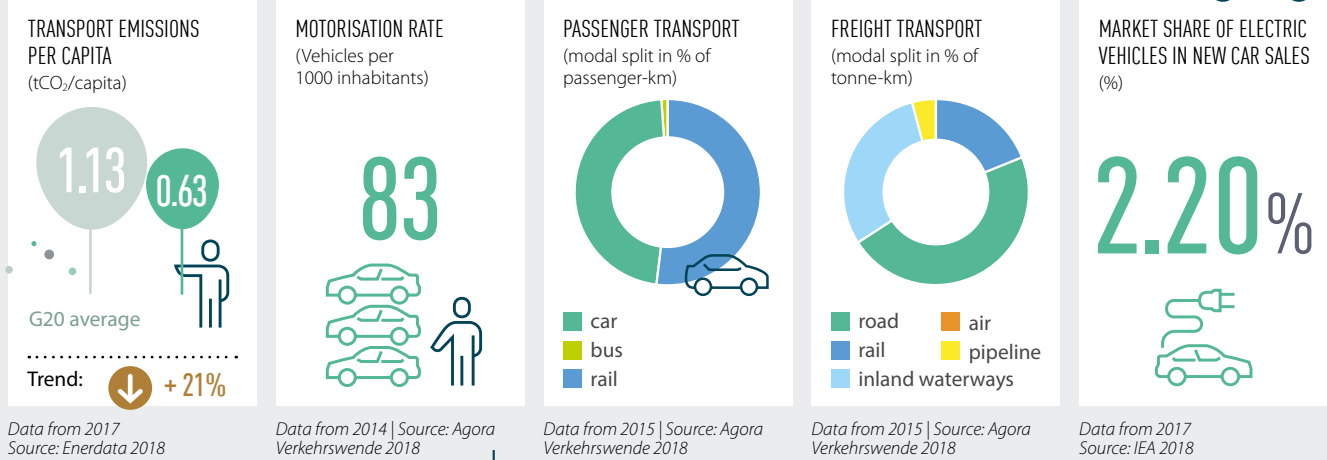
Legend for trend: negative positive

The trend number shows developments over the past five years, where data is available

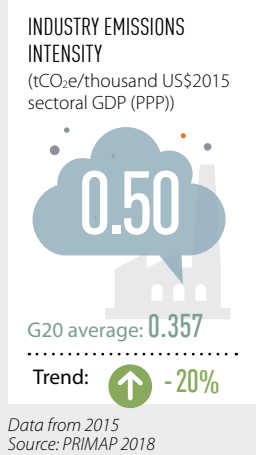
POWER SECTOR



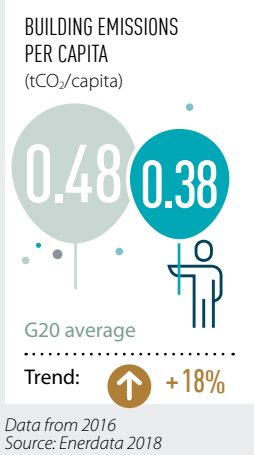
TRANSPORT SECTOR



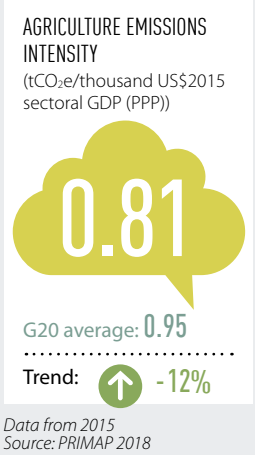
INDUSTRY SECTOR



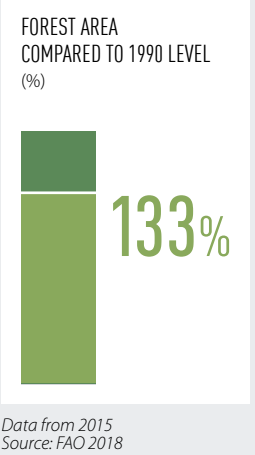
BUILDING SECTOR



AGRICULTURE SECTOR



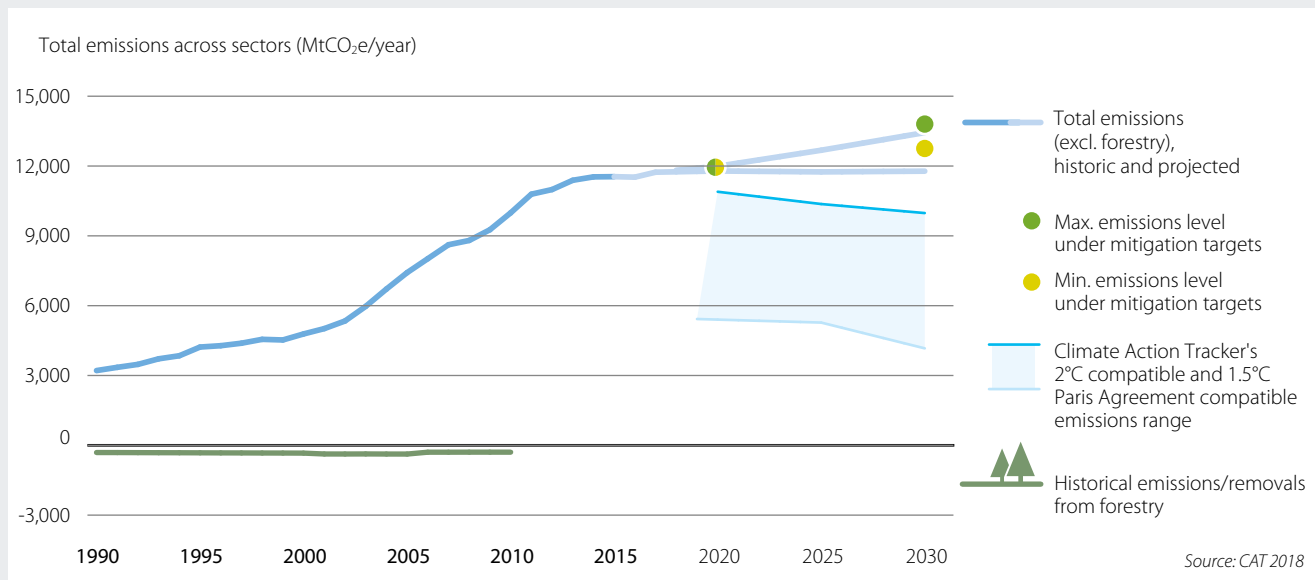
FOREST SECTOR



CLIMATE POLICY

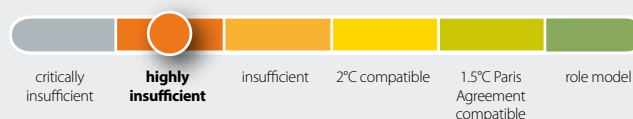
CHINA

COMPATIBILITY OF CLIMATE TARGETS WITH THE PARIS AGREEMENT²



China is on track to over-achieve its NDC targets, although an increase in coal use in 2017, together with rising demand for oil and gas, drove CO₂ emissions above 2014 levels, the previous record high. The CAT rates China's NDC "highly insufficient" as it is not ambitious enough to limit warming to below 2°C, let alone to 1.5°C. In 2017, China announced it had already met its 2020 target to reduce carbon intensity of GDP by 45% below 2005 levels, with expectations of reducing it by more than 50% by 2020.

CLIMATE ACTION TRACKER (CAT) EVALUATION OF NDC²



Source: CAT 2018

NATIONALLY DETERMINED CONTRIBUTION (NDC)

MITIGATION

Targets	<p>Overall targets</p> <ul style="list-style-type: none"> To achieve the peaking of carbon dioxide emissions around 2030 and making best efforts to peak early To lower carbon dioxide emissions per unit of GDP by 60% to 65% from the 2005 level <p>Coverage</p> <ul style="list-style-type: none"> Sectors covered: Not specified GHG covered: Carbon dioxide Percentage of national emissions covered: Not specified <p>Sectoral targets</p> <ul style="list-style-type: none"> Energy: To increase the share of non-fossil fuels in primary energy consumption to around 20% by 2030 Forestry: To increase the forest stock volume by around 4.5 billion cubic metres on the 2005 level by 2030
Actions	Actions specified (sectors: energy, industry, buildings, transport, forestry, waste)

ADAPTATION

Targets	Not mentioned
Actions	Actions specified (sectors: infrastructure, water, biodiversity/ecosystems, forestry, health)

FINANCE

Conditionality	NDC not conditional on international financial support
Investment needs	Not specified
Actions	National actions to align financial flows specified (financial policies, fiscal policy levers and public spending)
International market mechanisms	Not mentioned

own compilation based on UNFCCC 2018



CLIMATE POLICY

CHINA

POLICY EVALUATION¹⁷

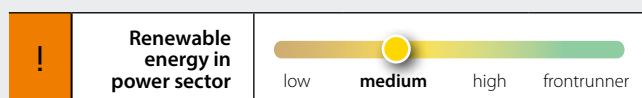
The ratings evaluate a selection of policies that are essential pre-conditions for the longer-term transformation required to meet the 1.5°C limit. They do not represent a complete picture of what is necessary.

Legend:
low No action
medium Some action
high Significant action and a long-term vision
frontrunner Significant action, and a long-term vision that is compatible with 1.5°C
! most important measures based on share of emissions and political relevance

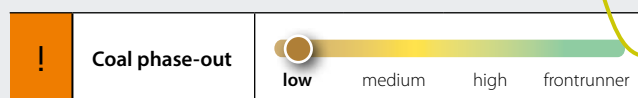


GHG target and long-term strategy: China usually presents its policies in five-year plans but is currently developing a long-term low emissions strategy, including a reduction target for 2050.

POWER

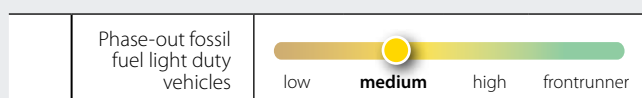


China has no 2050 renewables target but is aiming to reach 680 GW of installed renewable capacity by 2020. China is expected to surpass its 2020 solar energy target, thanks to a successful feed-in tariff system but the government decided to reduce feed-in tariffs for 2018.



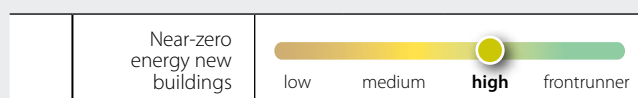
The government has no phase-out plans for coal yet but aims to reduce the share in the energy mix from currently 64% to 58% by 2020. The government introduced strict requirements for the construction of new coal power plants in 2016, to stop construction in provinces with over-supply of electricity. China's air pollution policies, recently strengthened through the 2018–2020 Air Pollution Plan, have already resulted in a reduction of coal use. In 2019, the government will launch trial periods for a new emissions trading scheme for the power sector.

TRANSPORT



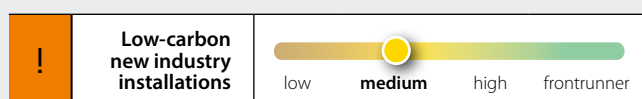
China has no targets to phase out fossil fuel LDVs but has established stringent fuel-efficiency standards, a subsidy scheme for the purchase of EVs which is the highest in the world, a new cap-and-trade scheme obliging car manufacturers to produce at least 12% zero- or low-emission vehicles by 2020, and a target to sell 2 million EVs per year by 2020.

BUILDINGS



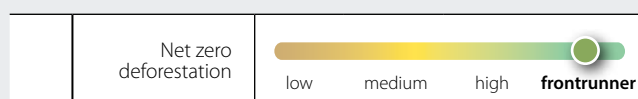
The government aims to increase energy efficiency of new buildings by 20% by 2020 and to construct 50% of new buildings as certified green buildings in urban areas. By 2030, 30% of new and renovated buildings will be near zero-energy.

INDUSTRY



For the top 10,000 energy-consuming companies, there is a programme for energy conservation and low-carbon development.

FORESTS



China aims to increase the country's tree coverage from 21.7% to 23% from 2016 to 2020.

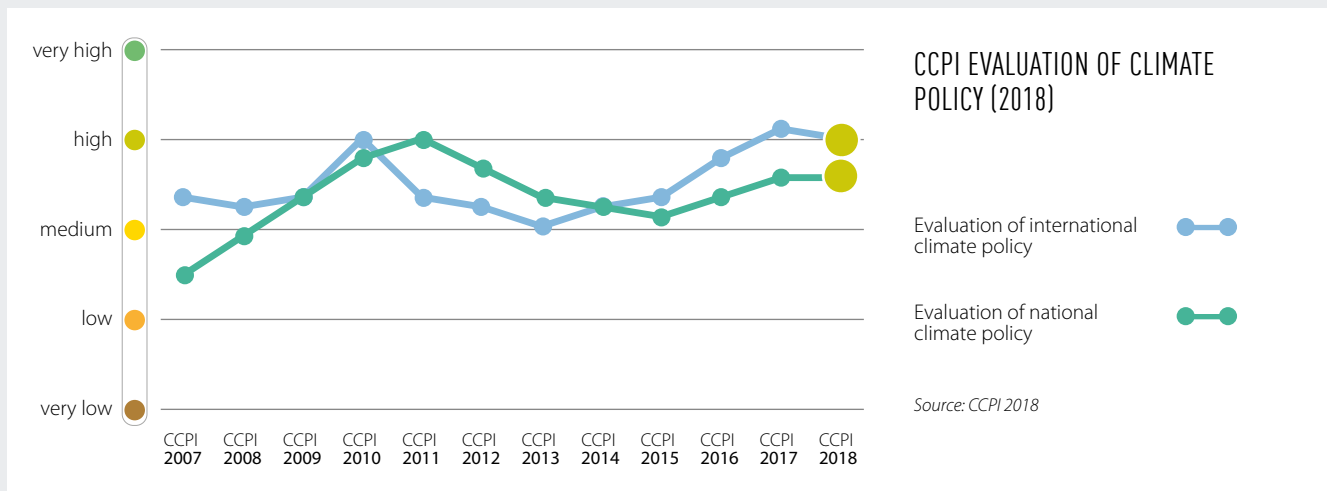
Source: own evaluation

 CLIMATE POLICY

CHINA

CCPI EXPERTS' POLICY EVALUATION¹⁸

China's experts rate the country's performance in international climate policy as high, since the country strives for a leading role in climate diplomacy. Experts also give a high rating for national climate-related policies because the government introduced policies to promote renewable energies, and announced the phase-out of fossil fuels subsidies and reduction of coal capacity. However, experts say that China's 2030 NDC targets for GHG emissions and renewables are not ambitious enough.



JUST TRANSITION¹⁹

Emissions trends in China from 2000 to 2018 show that CO₂ emissions (including from energy and industry) peaked in 2014. China's energy transition strategy and air pollution policies contributed to changing the emissions trend. Major long-term national policies included: 1) Renewable energy and nuclear power development. New solar PV capacity in China accounted for more than 50% of global new PV capacity in 2016 and 2017. In 2017 three GenIII nuclear power units began operation, and this is expected to continue. 2) Cap on coal use. The air pollution action plan strongly required provinces and cities with high air pollution to cap coal use by promoting clean energy. 3) Promoting energy conservation to slow down the growth of energy demand.

Reducing coal could affect jobs in related sectors. There are nearly 3.5 million workers in coal mining. About 1.3 million mine workers had to be shifted to other sectors following over-capacity reductions from 2013 to 2016.



FINANCING THE TRANSITION

CHINA

FINANCIAL POLICIES AND REGULATIONS

Through policy and regulation governments can overcome challenges to mobilising green finance, including: real and perceived risks, insufficient returns on investment, capacity and information gaps.

APPROACHES TO IMPLEMENTING THE RECOMMENDATIONS OF THE TASK FORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES (TCFD)²⁰

This indicator establishes the degree of government engagement with the recommendations of the G20 Financial Stability Board's Task Force on Climate-Related Financial Disclosure.

No formal engagement with TCFD	Political and regulatory engagement	Formal engagement with private sector	Publication of guidance and action plans	Encoding into law
□	■	□	□	□

Source: CISL 2018

The People's Bank of China launched the Guidelines for Establishing the Green Financial System in 2016, to mobilise and invest in green sectors including the establishment of a mandatory environmental information disclosure system for listed companies and bond issuers. It jointly founded the Central Banks and Supervisors Network for Greening the Financial System advancing financial sector climate risk management.

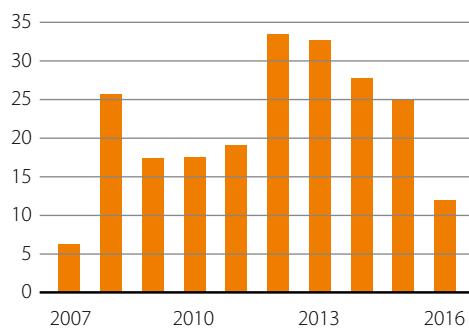
FISCAL POLICY LEVERS

Fiscal policy levers raise public revenues and direct public resources. Critically, they can shift investment decisions and consumer behaviour towards low-carbon, climate-resilient activities by reflecting externalities in prices.

FOSSIL FUEL SUBSIDIES

In 2016, China's fossil fuel subsidies reached US\$11.9bn, but have fluctuated widely (US\$6.3bn to US\$33.5bn) since 2007. From 2007 to 2016, subsidies were below (US\$0.001) the G20 average (US\$0.003) per unit of GDP. Subsidies primarily targeted consumption (87%), through direct budget support and tax exemptions. The largest subsidy is the petroleum price reform support payments to those most vulnerable to price increases (US\$8bn in 2016).

Fossil fuel subsidies (US\$ billions)

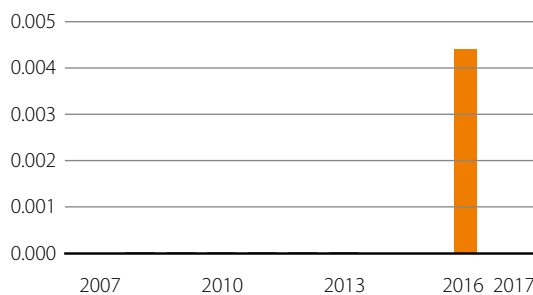


Source: OECD/IEA 2018

CARBON REVENUES

China has several subnational emissions trading schemes, but revenue estimates are largely missing. In 2017, the government introduced a national emissions trading scheme aimed at covering 30% of domestic emissions (in the power sector), following subnational pilot schemes deployed in nine cities and provinces since 2013 (covering various sectors). Emissions are priced between US\$1 and US\$8/tCO₂.

Revenues from explicit carbon pricing (US\$ billions)



Only estimates for 2016 are available for three subnational schemes.

Source: IACE 2018

FINANCING THE TRANSITION

CHINA

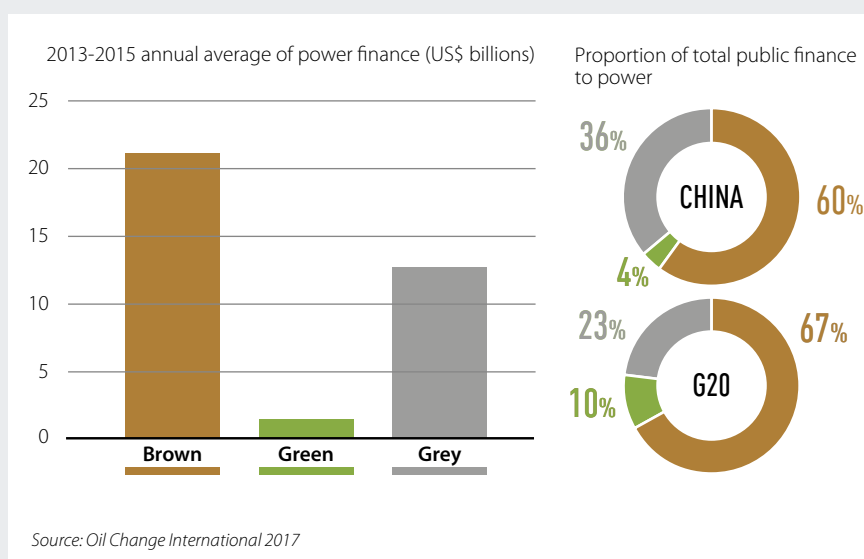
PUBLIC FINANCE

Governments steer investments through their public finance institutions including via development banks, both at home and overseas, and green investment banks. Developed G20 countries also have an obligation to provide finance to developing countries and public sources are a key aspect of these obligations under the UNFCCC.

NATIONAL AND INTERNATIONAL PUBLIC FINANCE IN THE POWER SECTOR²¹

In 2013 to 2015, China's public finance institutions spent an annual average of US\$21.1bn brown, US\$1.4bn green and US\$12.6bn grey financing in the power sector, domestically and internationally. The largest transactions were the Export-Import Bank of China loan (US\$6.5bn) to Pakistan's Karachi Nuclear power complex, and the Industrial and Commercial Bank of China loan (US\$5.1bn) to nuclear power in Argentina.

- coal, oil and gas projects (and associated infrastructure) **brown**
- large-scale hydropower, biofuels, biomass, nuclear, incineration, transmission, distribution, storage, energy efficiency, other general electricity support **grey**
- renewable energy projects (excluding grey financing) **green**



PROVISION OF INTERNATIONAL PUBLIC SUPPORT

China is not listed in Annex II of the UNFCCC and is therefore not formally obliged to provide climate finance. Despite this, China has provided mitigation finance via the Global Environment Facility (GEF) Trust Fund. In its Biennial Update Report (BUR) to the UNFCCC, China also includes information on its South-South cooperation. Tabular data to report on the scale and nature of such contributions for particular years is not included in the BUR and so is not reported here. While China may channel international public finance towards climate change via multilateral and other development banks, this has not been included in this report.

OBLIGATION TO PROVIDE CLIMATE FINANCE UNDER UNFCCC



CONTRIBUTIONS THROUGH THE MAJOR MULTILATERAL CLIMATE FUNDS²²

Note: See Technical Note for multilateral climate funds included and method to attribute amounts to countries

Source: Climate Funds Update 2017

Annual average contribution (mn US\$, 2015-2016)	Theme of support		
	Adaptation	Mitigation	Cross-cutting
1.23	0%	100%	0%

BILATERAL CLIMATE FINANCE CONTRIBUTIONS²³

Annual average contribution (mn US\$, 2015-2016)	Theme of support			
	Mitigation	Adaptation	Cross-cutting	Other
n.a.	n.a.	n.a.	n.a.	n.a.

Source: Country reporting to UNFCCC



ANNEX



For more detail on sources and methodologies, please refer to the Technical Note at:

https://www.climate-transparency.org/wp-content/uploads/2018/11/Technical-Note_data-sources-and-methodology.pdf

- 1) The 2030 projections of the future development of greenhouse gas (GHG) emissions under current policies are based on the Climate Action Tracker (CAT) estimates.
- 2) The CAT is an independent scientific analysis that tracks progress towards the globally agreed aim of holding warming to well below 2°C, and pursuing efforts to limit warming to 1.5°C. The CAT “Effort Sharing” assessment methodology applies state-of-the-art scientific literature on how to compare the fairness of government efforts and (Intended) Nationally Determined Contribution (I) NDC proposals against the level and timing of emission reductions consistent with the Paris Agreement. The assessment of the temperature implications of a country’s NDC is based on the assumption that all other governments would follow a similar level of ambition.
- 3) This assessment is based on the policy evaluation on page 9 of this Country Profile.
- 4) Gross Domestic Product (GDP) per capita is calculated by dividing GDP with mid-year population figures. GDP is the value of all final goods and services produced within a country in a given year. Here GDP figures at purchasing power parity (PPP) are used. Data for 2017.
- 5) The Human Development Index (HDI) is a composite index published by the United Nations Development Programme (UNDP). It is a summary measure of average achievement in key dimensions of human development. A country scores higher when the lifespan is higher, the education level is higher, and GDP per capita is higher.
- 6) The ND-GAIN index summarises a country’s vulnerability to climate change and other global challenges in combination with its readiness to improve resilience. This report looks only at the exposure indicators as part of the vulnerability component of the ND-GAIN index for six sectors. It displays the exposure scores provided by the ND-GAIN on a scale from low (score: 0) to high (score: 1).
- 7) The indicator covers all Kyoto gases showing historic emissions in each of the IPCC source categories (energy, industrial processes, agriculture, etc.). Emissions projections (excl. forestry) under a current policy scenario until 2030 are taken from the Climate Action Tracker and scaled to the historical emissions from PRIMAP (see Brown to Green Report 2018 Technical Note).
- 8) The ratings on GHG emissions are taken from the Climate Change Performance Index (CCPI) 2018. The rating of “current level compared to a well below 2°C pathway” is based on a global scenario of GHG neutrality in the second half of the century and a common but differentiated convergence approach.
- 9) CO₂ emissions cover only the emissions from fossil fuels combustion (coal, oil and gas) by sector. They are calculated according to the UNFCCC methodology (in line with the 2006 IPCC Guidelines for National Greenhouse Gas Inventories).
- 10) Total primary energy supply data displayed in this Country Profile does not include non-energy use values. Solid fuel biomass in residential use has negative environmental and social impacts and is shown in the category “other”.
- 11) Zero-carbon fuels include nuclear, hydropower and new renewables (non-residential biomass, geothermal, wind, solar).
- 12) Climate Transparency ratings assess the relative performance across the G20. A high scoring reflects a good effort from a climate protection perspective but is not necessarily 1.5°C compatible.
- 13) New renewables include non-residential biomass, geothermal, wind and solar energy. Hydropower and solid fuel biomass in residential use are excluded due to their negative environmental and social impacts.
- 14) Total primary energy supply (TPES) per capita displays the historical, current and projected energy supply in relation to a country’s population. Alongside the intensity indicators (TPES/GDP and CO₂/TPES), TPES per capita gives an indication on the energy efficiency of a country’s economy. In line with a well-below 2°C limit, TPES per capita should not grow above current global average levels. This means that developing countries are still allowed to expand their energy use to the current global average, while developed countries have to simultaneously reduce it to that same number.
- 15) TPES per GDP describes the energy intensity of a country’s economy. This indicator illustrates the efficiency of energy usage by calculating the energy needed to produce one unit of GDP. Here GDP figures at PPP are used. A decrease in this indicator can mean an increase in efficiency but also reflects structural economic changes.
- 16) The carbon intensity of a country’s energy sector describes the CO₂ emissions per unit of total primary energy supply and gives an indication of the share of fossil fuels in the energy supply.



ANNEX (continued)



- 17) The selection of policies rated and the assessment of 1.5°C compatibility are informed by the Paris Agreement and the Climate Action Tracker (2016): "The ten most important short-term steps to limit warming to 1.5°C". The table below displays the criteria used to assess a country's policy performance. See the Brown to Green Report 2018 Technical Note for the sources used for this assessment.
- 18) The CCPI evaluates a country's performance in national climate policy, as well as international climate diplomacy through feedback from national experts from non-governmental organisations to a standardised questionnaire.
- 19) See the Brown to Green 2018 Technical Note for the sources used for this assessment.
- 20) The University of Cambridge Institute for Sustainability Leadership (CISL) in early 2018 reviewed the progress made by the national regulatory agencies of G20 members in making the Task Force on Climate-related Financial Disclosures (TCFD) recommendations relevant to their national contexts. See the Brown to Green Report 2018 Technical Note for more information on the assessment.
- 21) This data includes bilateral public finance institutions such as national development banks and other development finance institutions, overseas aid agencies, export credit agencies, as well as key multilateral development banks. The analysis omits most finance delivered through financial intermediaries and significant volumes of multilateral development bank (MDB) development policy finance (due to a lack of clarity on power finance volumes). Given a lack of transparency, other important multilateral institutions in which G20 governments participate are not covered. See the Brown to Green Report 2018 Technical Note for further details.
- 22) Finance delivered through multilateral climate funds comes from Climate Funds Update, a joint ODI/Heinrich Boell Foundation database that tracks spending through major multilateral climate funds. See the Brown to Green Report 2018 Technical Note for multilateral climate funds included and method to attribute approved amounts to countries.
- 23) Bilateral finance commitments are sourced from Biennial Party reporting to the UNFCCC. Financial instrument reporting is sourced from the OECD-DAC; refer to the Brown to Green Report 2018 Technical Note for more detail. Figures represent commitments of Official Development Assistance (ODA) funds to projects or programmes, as opposed to actual disbursements.

On endnote 17)	Criteria description			
	● Low	● Medium	● High	● Fronrunner
GHG emissions target for 2050 or beyond	No emissions reduction target for 2050 or beyond	Existing emissions reduction target for 2050 or beyond	Existing emissions reduction target for 2050 or beyond and clear interim steps	Emissions reduction target to bring GHG emissions to at least net zero by 2050
Long-term low emissions development strategy	No long-term low emissions strategy	Existing long-term low emissions strategy	Long-term low emissions strategy includes interim steps and/or sectoral targets	Long-term low emissions strategy towards full decarbonisation in the second half of the century; includes interim steps and/or sectoral targets, plus institutions and measures in place to implement and/or regularly review the strategy
Renewable energy in power sector	Allianz Monitor 2018 Category 1.2 (targets) and 2 (policies), average 0-25	Allianz Monitor 2018 Category 1.2 (targets) and 2 (policies), average 26-60	Allianz Monitor 2018 Category 1.2 (targets) and 2 (policies), average 61-100	Allianz Monitor 2018 Category 1.2 (targets) and 2 (policies), 61-100 plus 100% renewables in the power sector by 2050 in place
Coal phase-out	No consideration or policy in place for phasing out coal	Significant action to reduce coal use implemented or coal phase-out under consideration	Coal phase-out decided and under implementation	Coal phase-out date compatible with 1.5°C
Phase-out of fossil fuel light duty vehicles (LDVs)	No policy or emissions performance standards for LDVs in place	Energy/emissions performance standards or support for efficient LDVs	National target to phase out fossil fuel LDVs in place	Ban on new fossil-based LDVs by 2025/30
Near zero-energy new buildings	No policy or low emissions building codes and standards in place	Building codes, standards or fiscal/financial incentives for low emissions options in place	National strategy for near zero-energy buildings (at least for all new buildings)	National strategy for near zero-energy buildings by 2020/25 (at least for all new buildings)
Low-carbon new industry installations	No policy or support for energy efficiency in industrial production in place	Support for energy efficiency in industrial production (covering at least two of the country's sub-sectors (e.g. cement and steel production))	Target for new installations in emissions-intensive sectors to be low-carbon	Target for new installations in emissions-intensive sectors to be low-carbon after 2020, maximising efficiency
Net zero deforestation	No policy or incentive to reduce deforestation in place	Incentives to reduce deforestation or support schemes for afforestation / reforestation in place	National target for reaching zero deforestation	National target for reaching zero deforestation by 2020s or for increasing forest coverage

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<http://www.climate-transparency.org/g20-climate-performance/g20report2018>

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