European Union and the Paris Agreement

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• European Union reduced GHGs by 22% between 1990 and 2017 while the economy grew by 58%

• But emissions grew by 0.6% between 2016 and 2017
Changes in GDP (in real terms), GHG emissions, and emissions intensity of the economy (ratio between emissions and GDP) Index (1990 = 100)

EU 2030 Targets (old ➔ new)

• 40% reduction compared to 1990
• 27% ➔ 32% renewals in final energy
• 27% ➔ 32.5% energy efficiency

(if fully implemented, this would cut emissions by about 45%; with current policies projection is 30% cut)
Current versus Needed Policies for 2030 Goals

EU Emissions

• Emissions have decreased by about 3% in the last 4 years...

• But transport emissions have increased by about 7% from 2013 (to 2017)

• Aviation emissions grew by 4.5% 2016 to 2017

• 2017 20% of the EU budget was spent on climate change
Energy Union

• Member states agreed to prepare national climate and energy plans for 2021-2030, which are to be reviewed every two years

• Long term strategies to cover the next 30 years are also to be produced
German Commission on Growth, Structural Change and Employment (Coal Commission)

- 28 member body: representatives from industry, trade unions, environmental groups, academia
- Coal capacity 45GW
- Coal to be phased out by 2038 (or sooner). Phase out by 2035 possible if security of supply and industry allow
- State of progress to be reviewed in 2023, 2026, 2029
Targets

• 12.5 GW to be disconnected by 2022 (about 24 larger coal units). In 2030, 9 GW brown coal still to be allowed on the network
• North Rhine-Westphalia, Brandenburg, Saxony, and Saxony-Anhalt are to receive Euro 1.3 Billion per year for help in converting their industry, plus 700 million per year not linked to projects
• Key point plan to be released in April
• 1.5 billion through 2021 for transportation
• Electricity price compensation for heavy industrial users through 2030
Germany: Climate Protection Law

- To be formulated this year
- Aim is to set targets for specific sectors