

THE °CLIMATE GROUP

INNOVATION FOR CLEAN ENERGY POLICY

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14 March 2016

JISEA



Warsaw, Poland

1. Climate challenge
2. National responses – US, EU, UK
3. Wider climate action
4. Innovation
5. Conclusions

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THE PARIS AGREEMENT

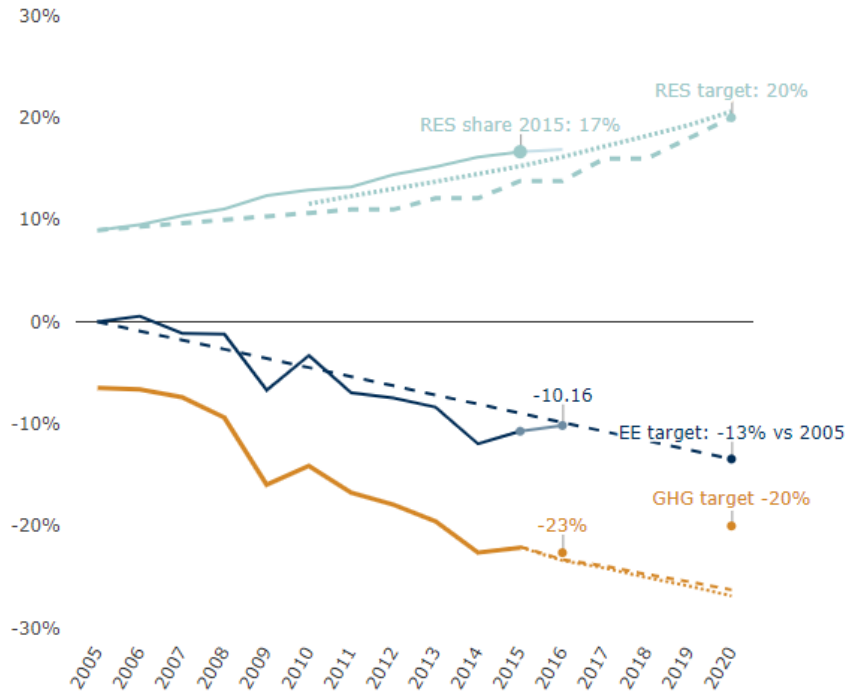


- Well below 2 degrees
- Efforts towards 1.5 degrees
- Includes a review and ratchet system

- Currently at +1 degrees
- Time running out to limit to 1.5 degrees
- 10 years of emissions 'left' (at current rate)
- Net-zero by 2050

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EU progress towards 2020 climate and energy targets



- RES share in gross final energy consumption (%)
- RES share in gross final energy consumption (proxy)(%)
- - - Trajectory from national action plans (%)
- Trajectory from Renewable Energy Directive (%)
- Primary energy consumption reduction vs 2005 (%)
- Primary energy consumption reduction vs 2005 (proxy) (%)
- - - Primary energy consumption (linear trajectory 2005 to 2020 target) (%)
- GHG emissions (%)
- GHG emissions (proxy)(%)
- - - Projected GHG emissions (WEM)(%)
- Projected GHG emissions (WAM) (%)

EU 2030 CLEAN ENERGY PACKAGE

- 40% cut in GHG emissions (1990 base year)
- 32% share of renewable energy consumption
- 32.5% energy savings (compared to BAU)

- 80% emissions reduction by 2050
- Climate Change Act, 2008
- Legally binding carbon budgets
 - 57% by 2030 compared to 1990 levels
 - 39% achieved by 2018

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UNDER 2 COALITION



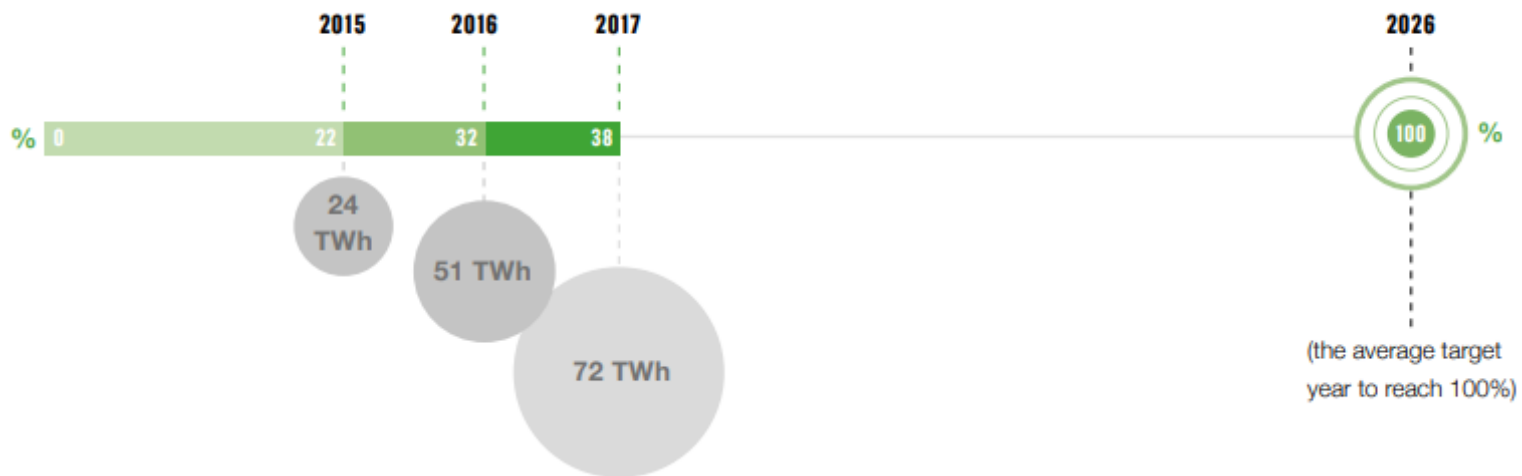
Three workstreams:

1. 2050 pathways
2. Policy action
3. Transparency



- 166 global companies in 140 markets
- 190 TWh/year electricity demand
- 38% average renewables consumption
- 37 companies already 95% renewable

Renewable electricity sourced per year (MWh and % of total electricity consumption)



Commitments by 2030:

- Integration into fleets
- EV in service contracts
- Supporting EV uptake by staff and/or customers



by THE CLIMATE GROUP

145,000 VEHICLES BEING SWITCHED TO EV BY 2030

6.6 MILLION METRIC TONS CO2E SAVED BY 2030

632,000 EMPLOYEES TO HAVE ACCESS TO CHARGING INFRASTRUCTURE



Commitments pathways:

- Doubling energy productivity
- Cutting out energy waste
- Owning and operating energy-smart buildings

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- Energy and climate plans by all member states
- Reporting obligations
- Enhanced collaboration (inc. 15% electricity interconnection target)
- “Clear and transparent” framework for dialogue with civil society

- Climate Change Act
 - Mandatory 5 year carbon budgets
 - Independently monitored
 - Government required by law to respond to monitoring reports
- Green Growth Strategy

Examples:

- UKERC
- New Energy Coalition
- EU Research Funding
- Plus many others

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CONCLUSIONS

- Technology not the issue
- Finance crucial
- Enhanced dialogue between policymakers, finance and energy sectors, and academia
- Sustainable progress depends on public engagement

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