



Ireland's Energy Trends

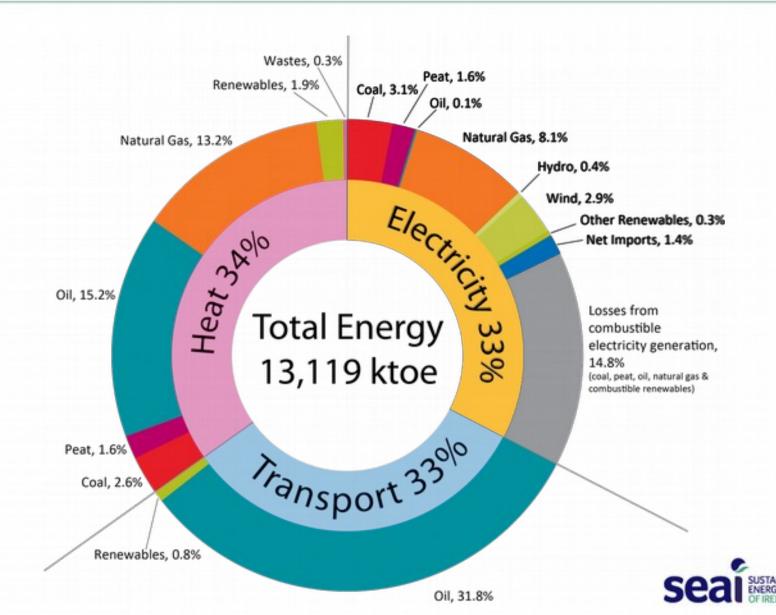
Context for Buildings

Martin Howley - Energy Policy Statistical Support Unit

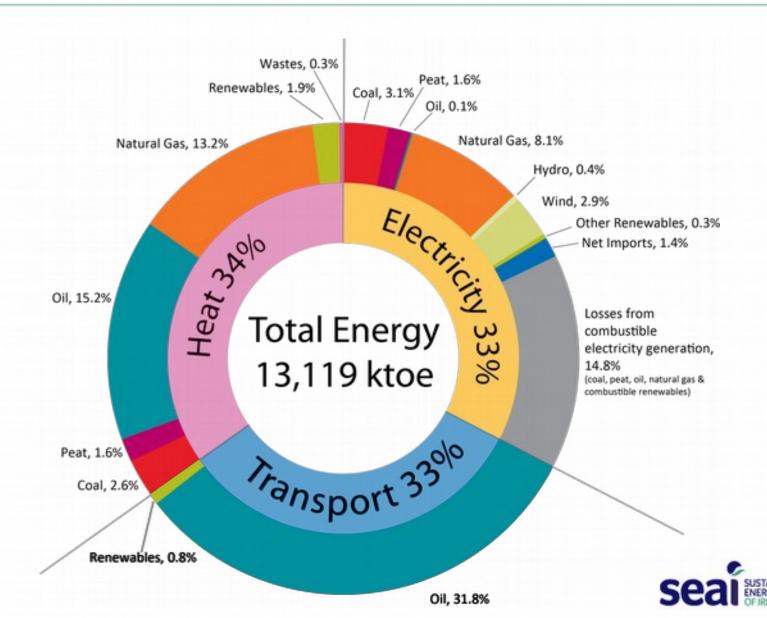


Where we are today

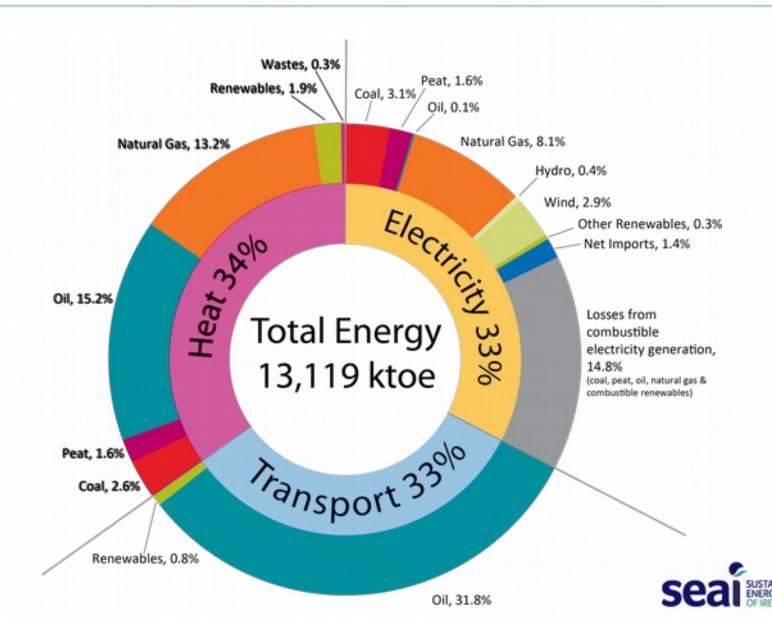
Primary Energy and Modes of Energy Use



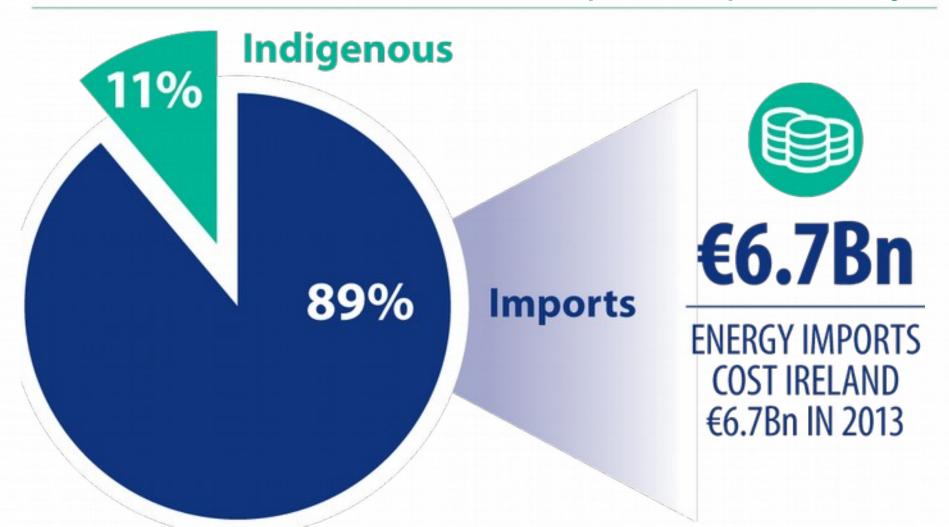
Transport & Renewable Energy Sources RES-T



Heat & Renewable Energy Sources RES-H



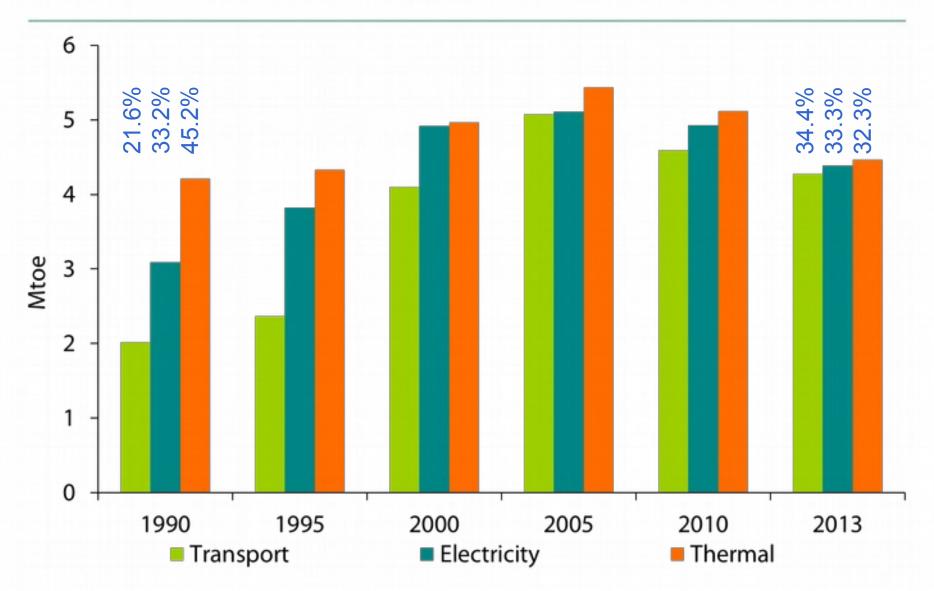
Import Dependency





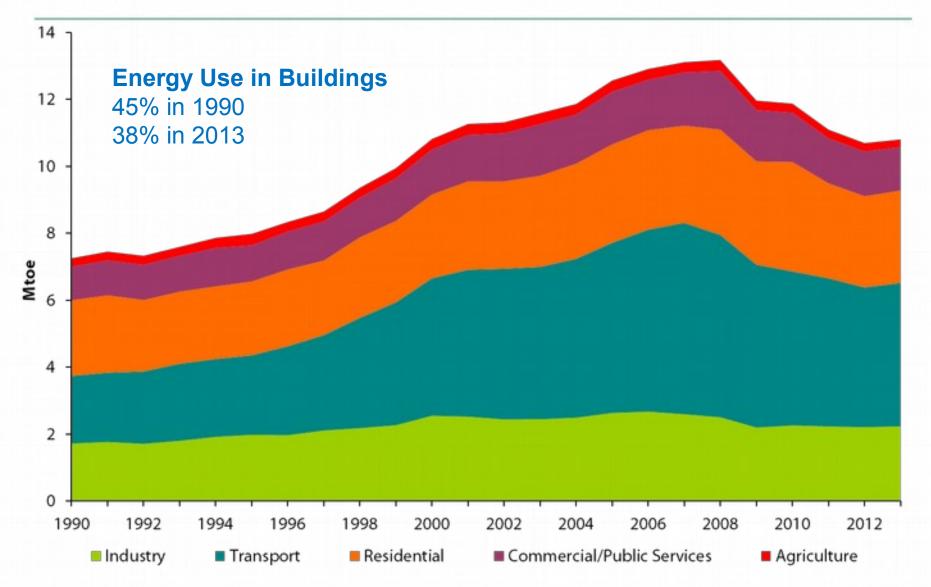


Energy Demand by Mode



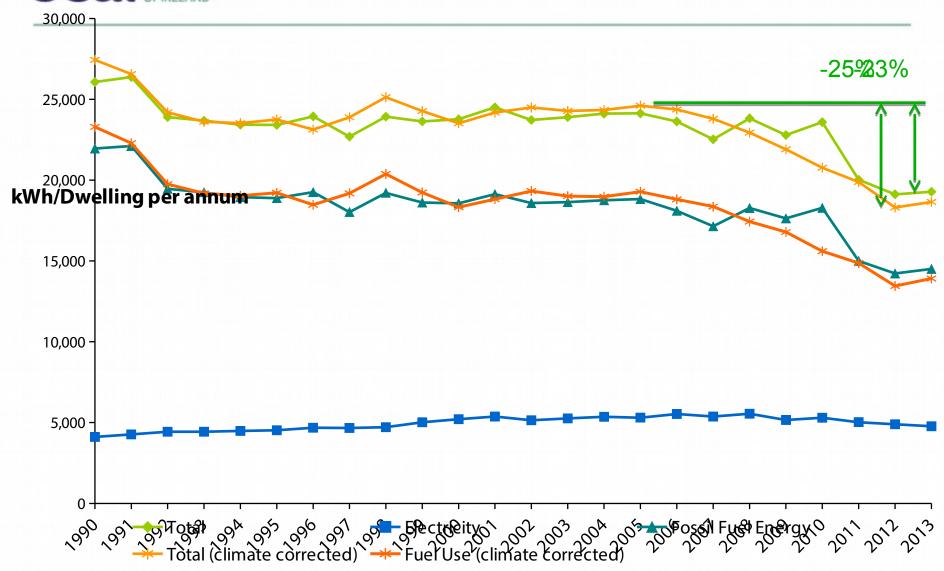


Final Energy Use by Sector



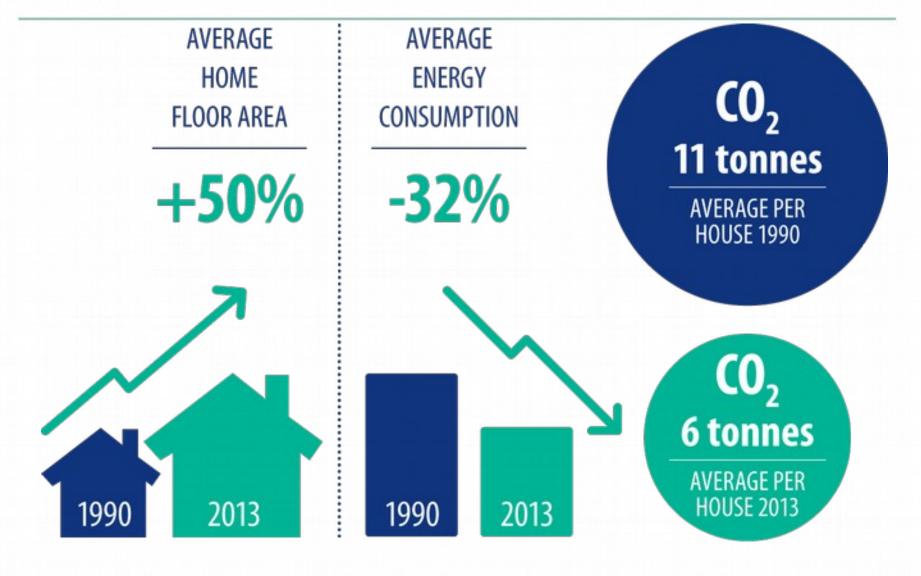


Energy Consumption per Household



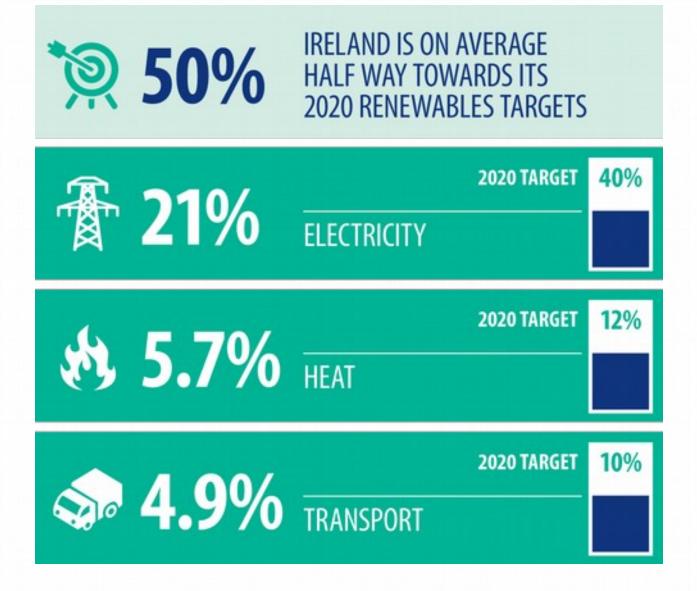


Policy Achievements



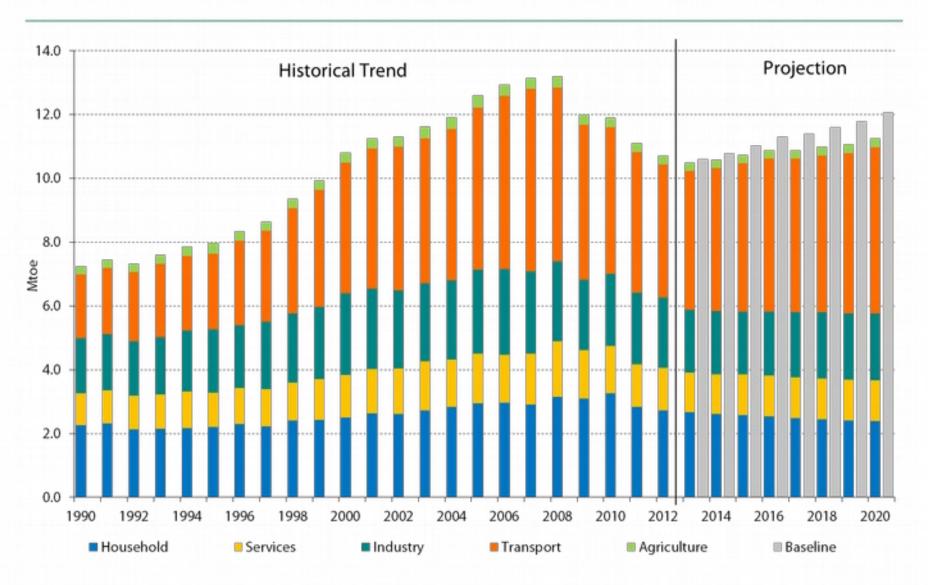


Progress towards renewable targets



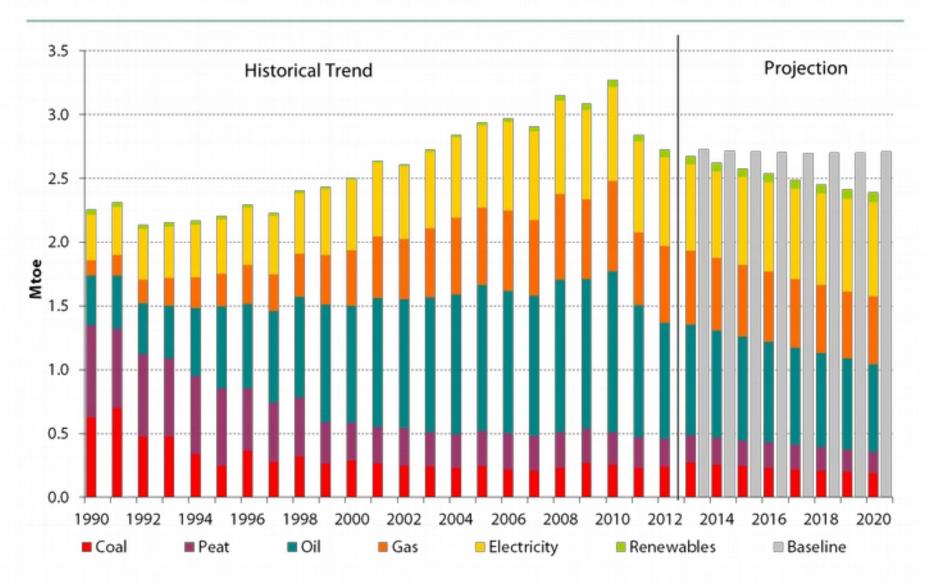


Projected overall energy use to 2020



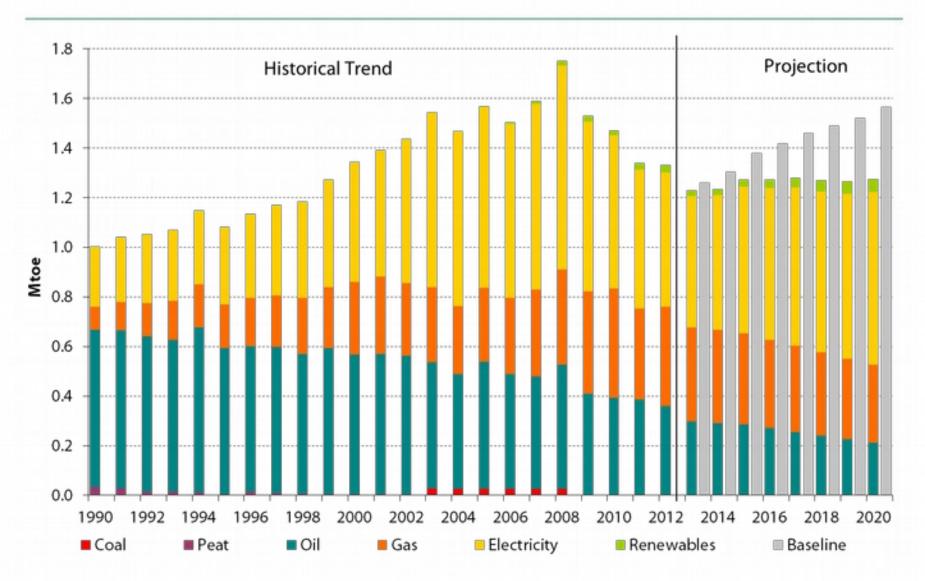


SUSTAINABLE Project household energy use to 2020





Project services energy use to 2020





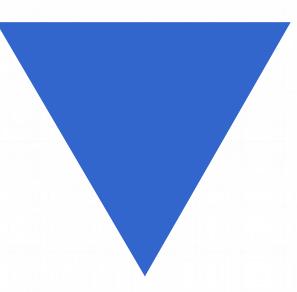
Target interaction



Headline 2020 targets for Ireland

Energy Efficiency

20% energy savings by 2020 (31,925 GWh)



Renewable Energy

Overall 16% RES of national consumption.

Three sub-targets

- RES-Electricity 40%
- RES-Heat 12%
- RES-Transport 10%

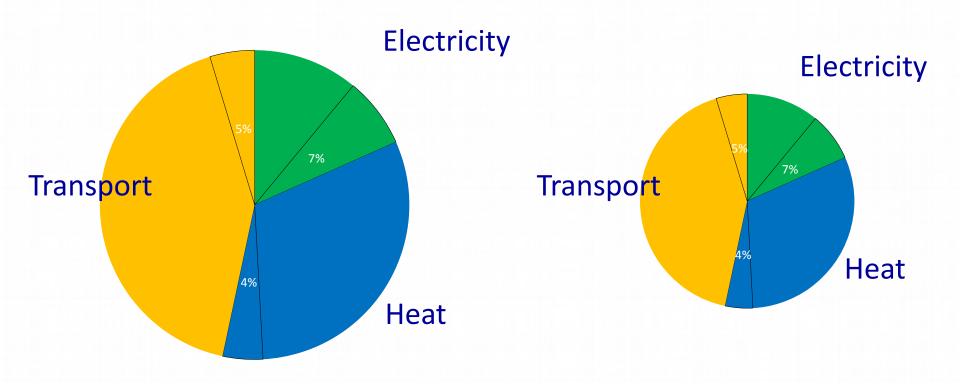
Emissions

EU Effort Sharing Decision (2013 – 2020)

- 20% reduction non-ETS emissions relative to 2005
- Annual limits



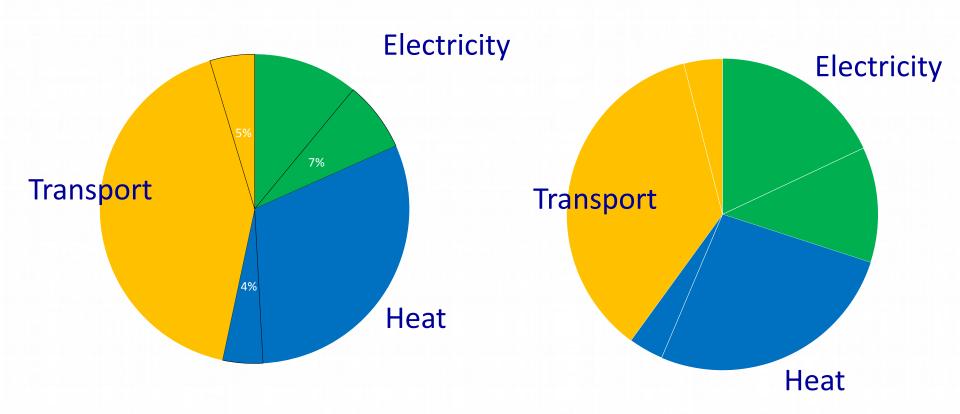
Target interaction 1 – EE & RE



Efficiency gains make renewables targets easier ...



Target interaction 2 – Shift demand

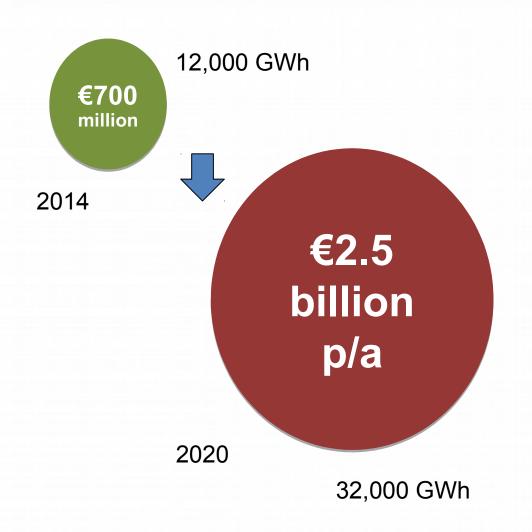


Demand shift places the burden on Emissions Trading sector



What's required to meet the targets?

Energy Efficiency



Success requires



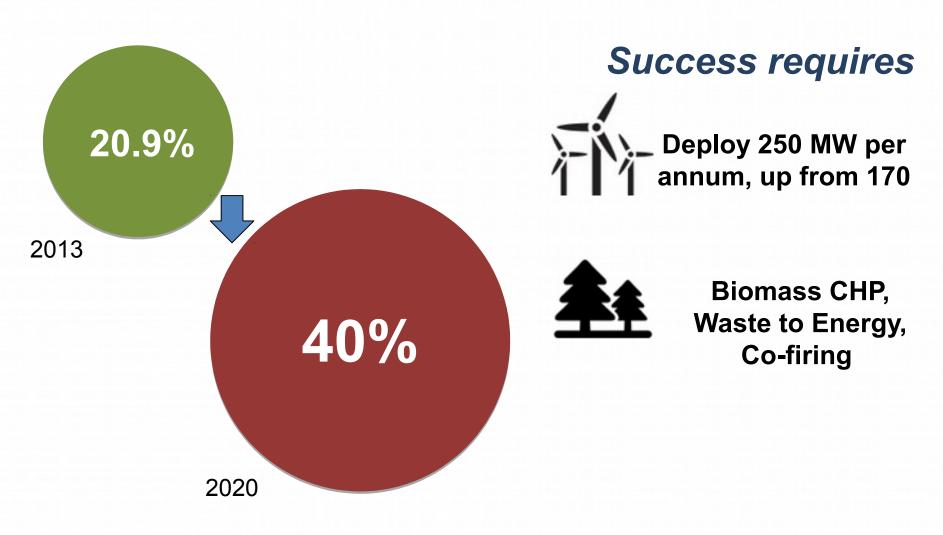
50 – 100k home upgrades p.a.





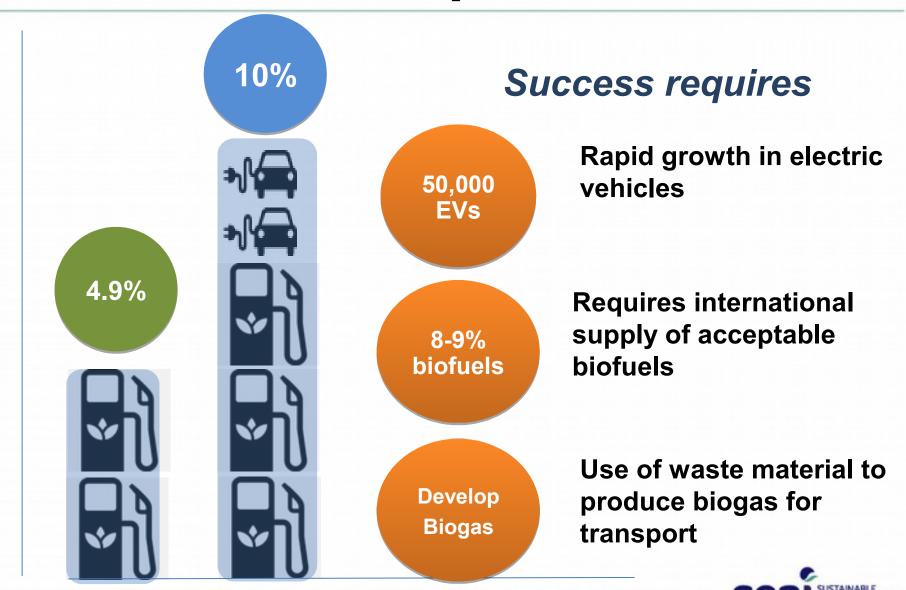


Renewable Electricity

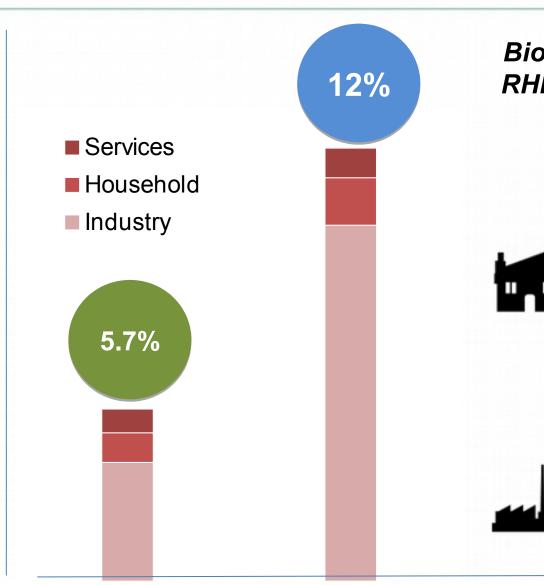




Renewable Transport



Renewable Heat



2013

Bioenergy recommends RHI to deliver remainder of target

Equivalent of:



300,000 homes/3,000 SMEs/300 large industry

installing renewable heat source



Biomass in Industry

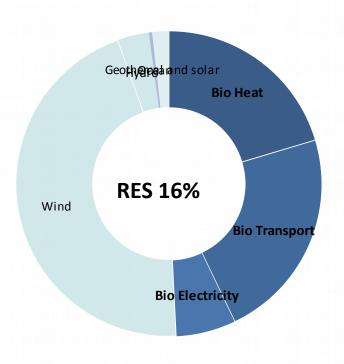


2020



What energy sources are required to meet RES targets?

50% from bioenergy



- Wind, hydro and ocean in electricity
- EVs in transport
- Heat-pumps for heat

- Biofuels in transport
- AD and solid biomass in heat and electricity



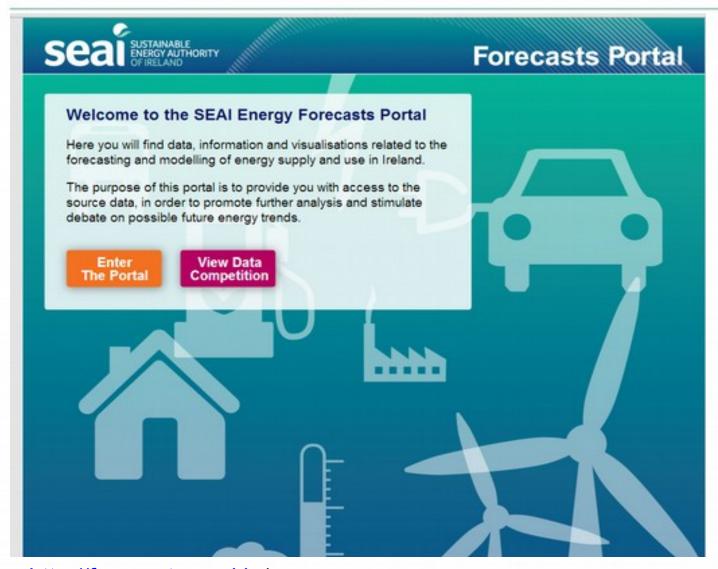
Key Messages

Key Messages

- Energy demand projections have been falling, in-line with forecasts of economic growth and policy action
- Level of effort to reach 2020 energy targets indicates an acceleration required
- Post 2020 We have the tools to model a range of energy policy as it is set / considered



Forecast portal





Publications Supporting Policy

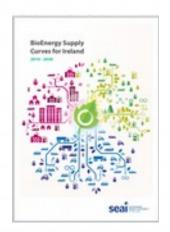




















Energy Statistics Publications

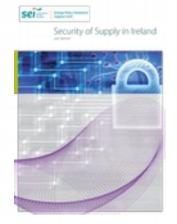












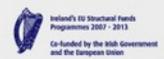






Thank you





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