## What is driving Ireland's CO<sub>2</sub> emissions?



#### **CO<sub>2</sub> Emissions from Energy related CO<sub>2</sub> emissions (MtCO<sub>2</sub>) Energy Use in Ireland in 2018** 2018 17 **Greenhouse gas emissions Energy-related CO<sub>2</sub> emissions** 15 15 by source by sector 15 INDUSTRIAL PROCESSES 1% 13 AGRICULTURE 2005 2% 6% TRANSPORT INDUSTRY & SERVICES 40% 34% 10 TRANSPOR Emissions 38.6 **Biggest contributors to transport emissions in 2018** AGRICULTUR **Energy-related** 34% +24% since 2012 **59%** MtCO<sub>2</sub> Transport remains almost entirely dependent on oil CARS **AVIATION** FREIGHT **40%** 21% 14% RESIDENTIAL 24% **HEA**1 **Emissions from Biggest contributors to heat emissions in 2018** heat have been $\bigcirc$ INCREASING Most CO<sub>2</sub> since 2014 +8% $\widetilde{\langle}$ emissions +5% OIL came from +8% GAS HOMES 56% COAL, PEAT **INDUSTRY** 27% **SERVICES** 47% 16% 21% 16% ELECTRICITY **Avoided CO<sub>2</sub> emissions** This equates to the Emissions **Biggest electricity users in 2018** from renewable CO<sub>2</sub> emissions of -33% between 2005 and 2018 energy was **`**∩ Fuels for electricity generation (2005-2018) of homes **INDUSTRY** MtCO<sub>2</sub> HOMES in Ireland 0 SERVICES 27% 39% 30% പ്രഹ്വ RENEWABLES COAL OIL To download the full report, -66% -96% +466% visit www.seai.ie/emissionsreport

Seal SUSTAINABLE ENERGY AUTHORITY OF IRELAND



# **Energy in Ireland**

2018 Key Trends



#### **ENERGY USE**



**ECONOMIC GROWTH** (modified domestic demand)

+1.7% +1.6%



OVERALL ENERGY USE



**ENERGY-RELATED** 

**CO<sub>2</sub> EMISSIONS** 

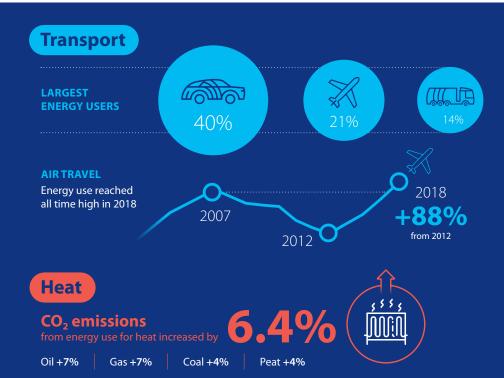
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		Energy use	Energy-related CO <sub>2</sub> Emissions
	Residential	+6.8%	0.0%
<i>it</i> iti	Transport	+2.6%	+2.9%
	Industry	+4.7%	-3.5%
Ē	Services	+6.4%	-3.6%

	11.00/	2020 TARGETS
Overall RES target	11.0%	16.0%
+ <b>0.5%</b> point increase from 2017 to 201	8	
Transport	7.2%	10.0%
- <b>0.2%</b> point decrease from 2017 to 201		
Heat	6.5%	12.0%
- <b>0.2%</b> point decrease from 2017 to 201		
Electricity	33.2%	40.0%

**Note:** Figures are all 2018 compared with 2017, unless otherwise stated.





### Electricity

CO<sub>2</sub> INTENSITY OF ELECTRICITY -14% to a new low of 375 gCO<sub>2</sub>/kWh

ELECTRICITY GENERATED

+2.9%

ENERGY USED FOR ELECTRICITY GENERATION

-4.0%

