



Department
for Environment
Food & Rural Affairs

Businesses for Clean Air – the support of government

Anna Sargeant

Deputy Head, Air Quality & Industrial Emissions

anna.sargeant@defra.gov.uk

Context and Challenge

Industrial emissions have significantly reduced since 1990, but remain responsible for a significant proportion of total UK emissions

Industry is a significant contributor to emissions of NO_x, SO₂, NMVOC and PM_{2.5}

➤ In 2018 industry's contribution to key air pollutants were:

Nitrogen Oxides (NO _x)	Sulphur Dioxide (SO ₂)	Non-methane volatile organic compounds (NMVOC)	Dust (PM _{2.5})
20.5 %	61.6%	72%	15.4%

➤ Industry has made significant emission reductions over the last 3 decades:

	Units	NO _x	NMVOC	SO ₂	PM _{2.5}
Industry Mass Emissions 1990	Kt	1200	1150	3400	80
Industry Mass Emissions 2018 ^{*1}	Kt	168.6	578.6	60.2	16.5
% reduction since 1990	%	86%	50%	98%	79%

➤ We have good control of industrial emissions but more needs to be done to meet the 2030 emissions ceilings.

Industrial Emissions Regulatory Framework



Industrial Scale Installations



Medium Combustion Plant and Specified Generators

- Combustion plants with thermal input $\geq 1 \leq 50$ megawatts.
- E.g. electricity generation, domestic and residential heating and cooling, industrial heating and steam processes
- SO₂, NO_x & dust
- Specified generators – focusing on high NO_x (mainly diesel) generators
- Over 23,000 new & existing plants by 2030.

- Emission Limit Values based upon Best Available Techniques
- Flexibility where disproportionately high costs
- Over 4000 installations in the UK
- includes Large Combustion Plant

Environmental Permitting Regulations

Local Authority Permitting

- [Part A2](#), sectors regulated under integrated pollution prevention and control, known as Local Authority Industrial Pollution Prevention and Control (LA-IPPC)
- [Part B](#), known as Local Air Pollution Prevention and Control (LAPPC)
- Local Authorities permit and monitor air quality emissions from certain sources (e.g. hospital & school generators, petrol stations).

