EU ETS Emissions in Ireland 2013-2020

National Inventories Briefing 22\textsuperscript{nd} October 2021
EPA is the Competent Authority for Administration of the EU Emissions Trading System in Ireland

Who are the ETS ‘operators’?

- 105 stationary installations and 7 aircraft operators reported under EU ETS for the 2020 monitoring year.
- Power generation/Cement/Alumina/Food industries/Other construction products/Pharmachem
- Aviation - Commercial and Non-Commercial operators
ETS Emissions in 2020 - headlines

- 13.29 million tCO$_2$ reported by stationary installations for 2020 (a decrease of 6.1% compared to 2019).
- 4.74 million tCO$_2$ reported by Aircraft Operators for 2020 (a decrease of 63%).
ETS Emissions in 2020 - details

- Powergen emissions ↓ -8.1 %
- Overall non-powergen emissions ↓ - 3.5 %,
- Cement sector ↓ -5.8%
- Dairy sector ↑ +4.0%
- Pharmachem ↑ +10.9%
ETS CO₂ emissions 2005-2020

Power Generation
Oil Refining & Solid Fuel Manufacture
Non-ferrous Metals
Food Processing
Cement
Other
ETS Industry CO₂ emissions 2005-2020

Million tonnes CO₂

-11.5% 2.00
-1.0% 2.00
-5.0% 2.00
-11.2% 2.00
-16.1% 2.00
12.6% 2.00
3.0% 2.00
3.3% 2.00
-6.5% 2.00
-0.8% 2.00
-3.4% 2.00
3.6% 2.00
5.3% 2.00
-2.2% 2.00
31.4% 2.00
10.8% 2.00
6.8% 2.00
2.1% 2.00
4.7% 2.00
-2.0% 2.00
-5.7% 2.00


Non-ferrous Metals
Food Processing
Cement
Other
ETS CO$_2$ emissions 2005-2020 - Stationary installations – All EEA

- Pilot Phase 2005-07
- Second Trading Period ('08-'12)
- Third Trading Period (2013-2020)
Average EUA 2021 is €49.20 @ CAP
ETS Phase III Trends Cement Sector
Carbon Intensity of Grey Cement Clinker Production

Average CO2/tonne grey cement
- EEA-wide 10% most efficient cf. Regulation (EU) 2021/447

Annual average for 4 Irish cement plants

- Average value of the 10 % most efficient installations in 2016 and 2017 (t CO2 equivalents/t)
Cement Industry
Emissions versus Allocation

Allocation by EU-wide benchmarks began in 2013
Aviation emissions admin by Ireland 2012-2019- a growing sector pre COVID-19

ETS Information
- 1.1 Freely allocated allowances
- 2. Verified emissions

Full scope
Reduced scope

-63%
EU Aviation – Covid impact

Eurocontrol data 2021

Update 10 Oct 21
– 2691 aircraft grounded
Conclusions

- EU ETS emissions have reduced
  - power generation is most noticeable
  - some improvements in other areas

Outlook

- Carbon prices are likely to remain high/creep higher
- Innovation fund – opportunity to adopt new technologies
- EU ETS likely to expand under the Fit-for-55 package
Thank you for your attention!

- Further information on EU ETS is available at
  https://www.epa.ie/our-services/licensing/climate-change/eu-emissions-trading-system/

  EEA EUTL data viewer:

  Please type your questions in the Q&A chat.