



EU ETS Emissions in Ireland 2013-2020

National Inventories Briefing 22nd 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 tCO₂ reported by stationary installations for 2020 (a decrease of 6.1% compared to 2019).
- 4.74 million tCO₂ reported by Aircraft Operators for 2020 (a decrease of 63%).

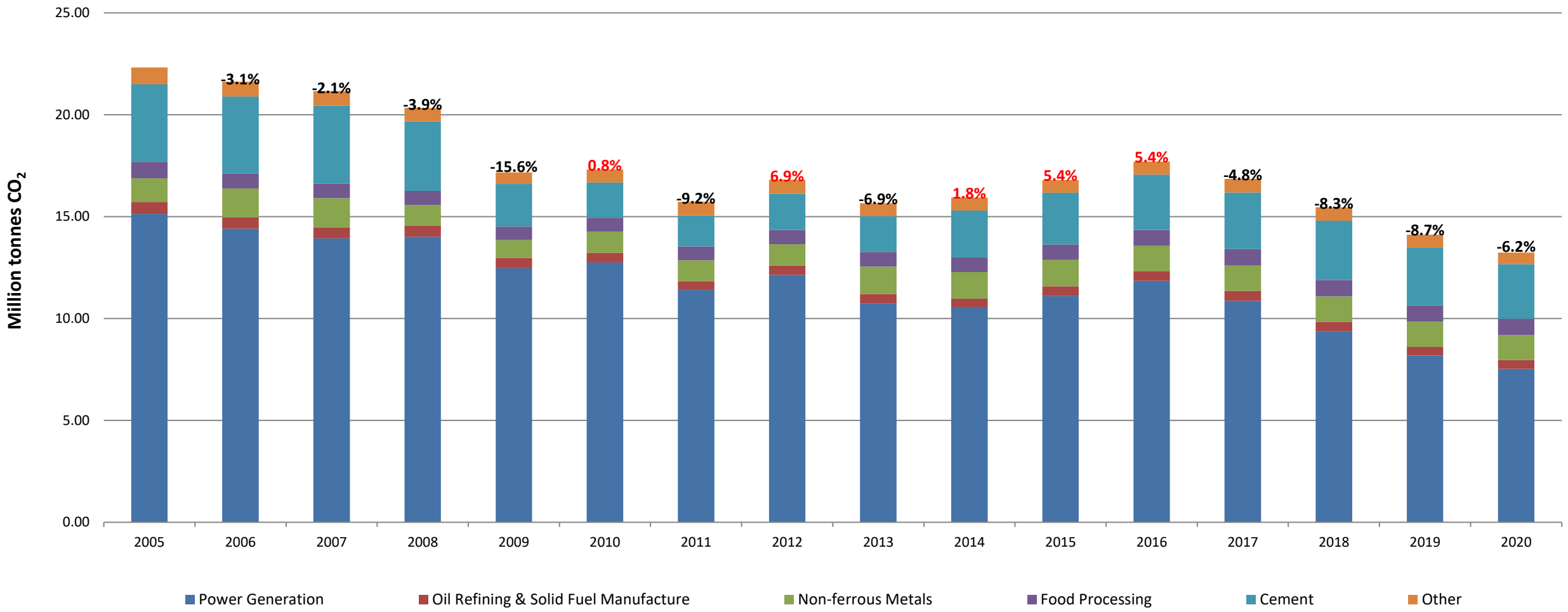


ETS Emissions in 2020- details

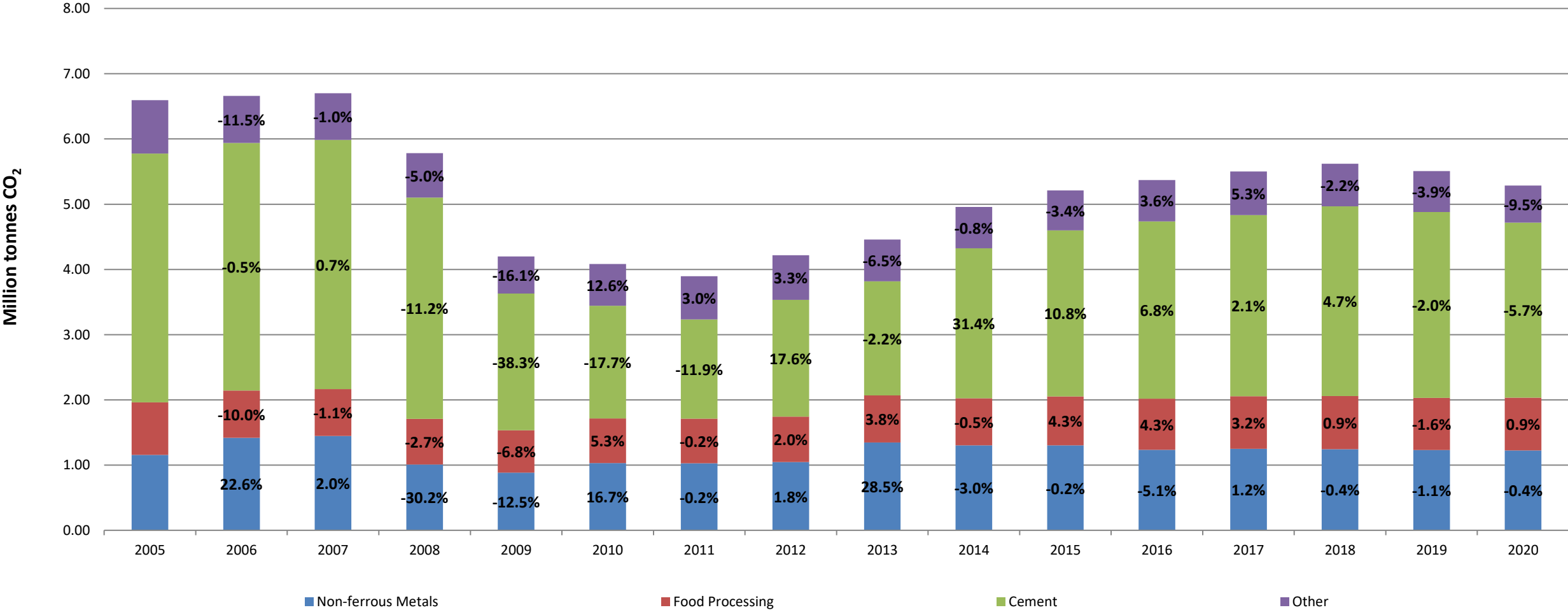


- Powergen emissions ↓ -8.1 %
- Overall non-powergen emissions ↓ - 3.5 %,
- Cement sector ↓ -5.8%
- Dairy sector ↑ +4.0%
- Pharmachem +10.9% ↑

ETS CO₂ emissions 2005-2020



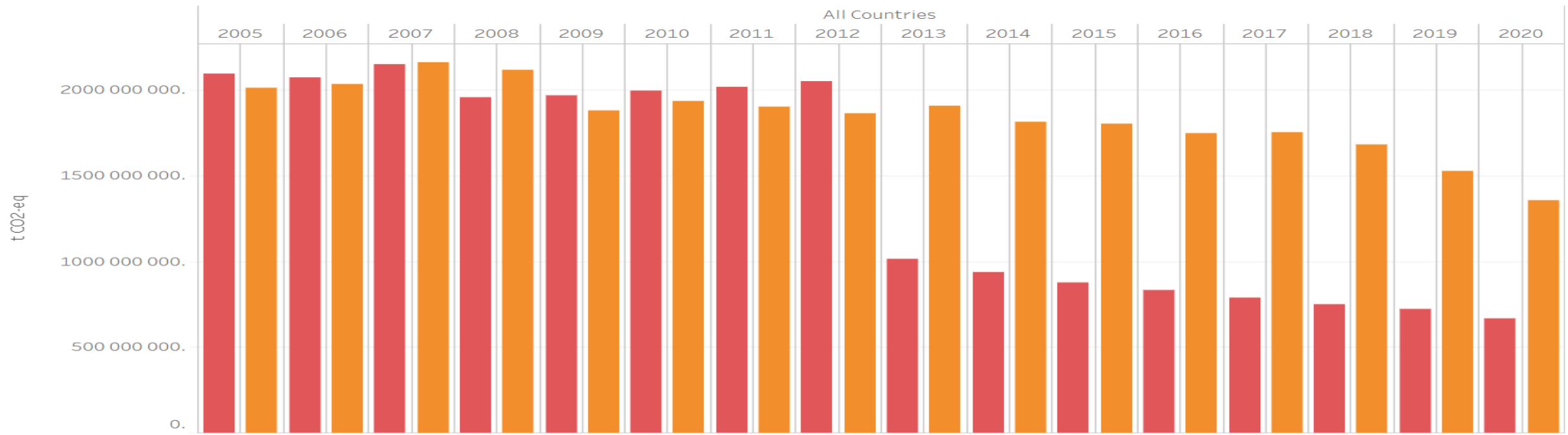
ETS Industry CO₂ emissions 2005-2020



ETS CO₂ emissions 2005-2020 -Stationary installations –All EEA



Pilot Phase 2005-07 Second Trading Period ('08-'12) Third Trading Period (2013-2020)

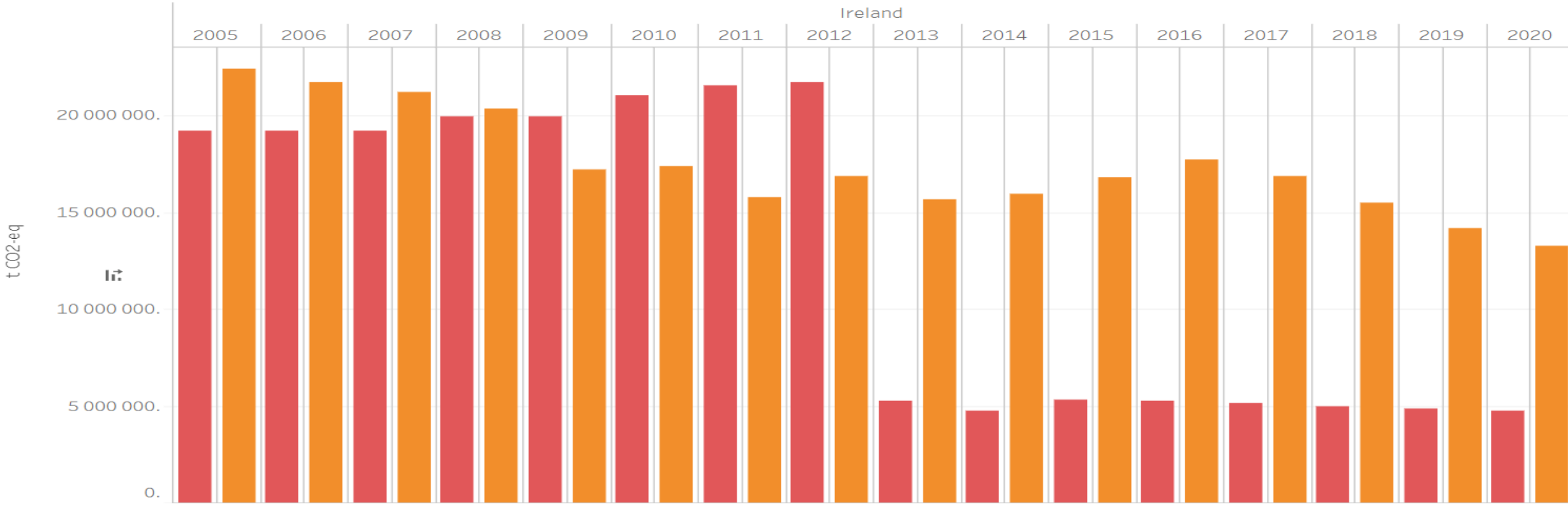


ETS information
 ■ 1.1 Freely allocated allowances
 ■ 2. Verified emissions

Stationary installations Emissions v. Allocation- Ireland

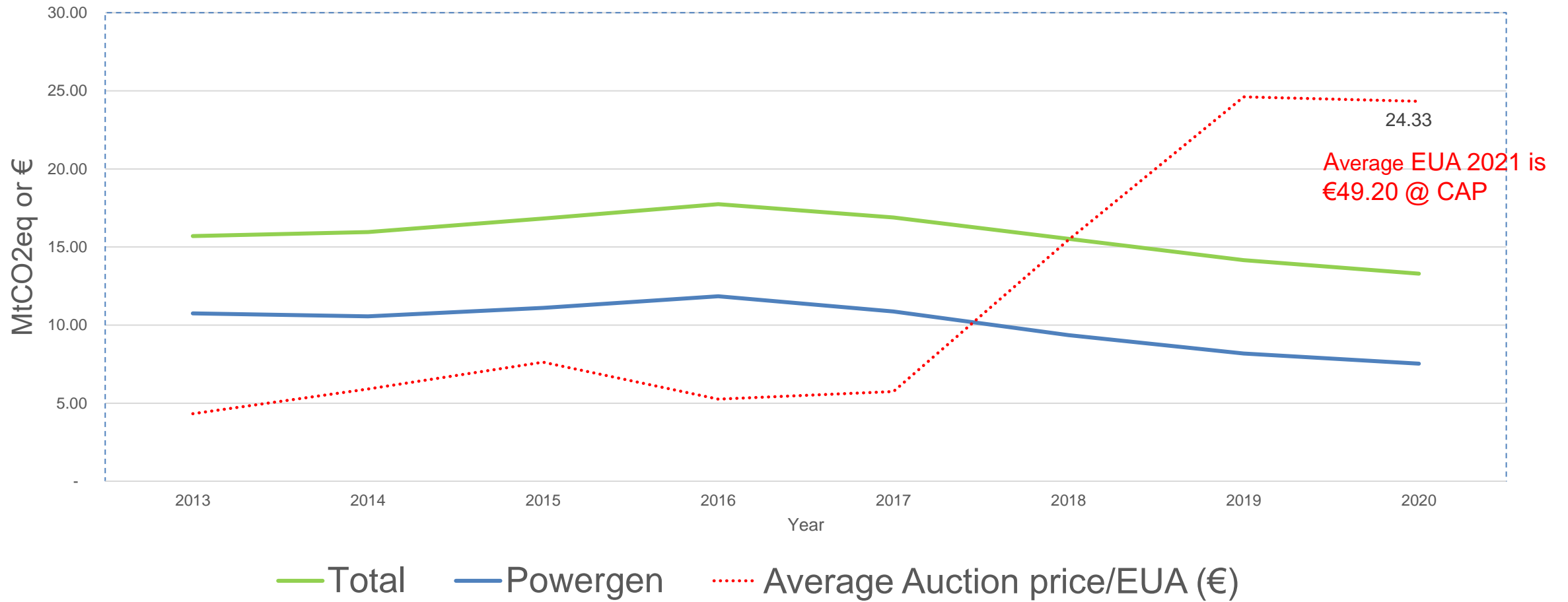


Pilot Phase 2005-07 Second Trading Period ('08-'12) Third Trading Period (2013-2020)

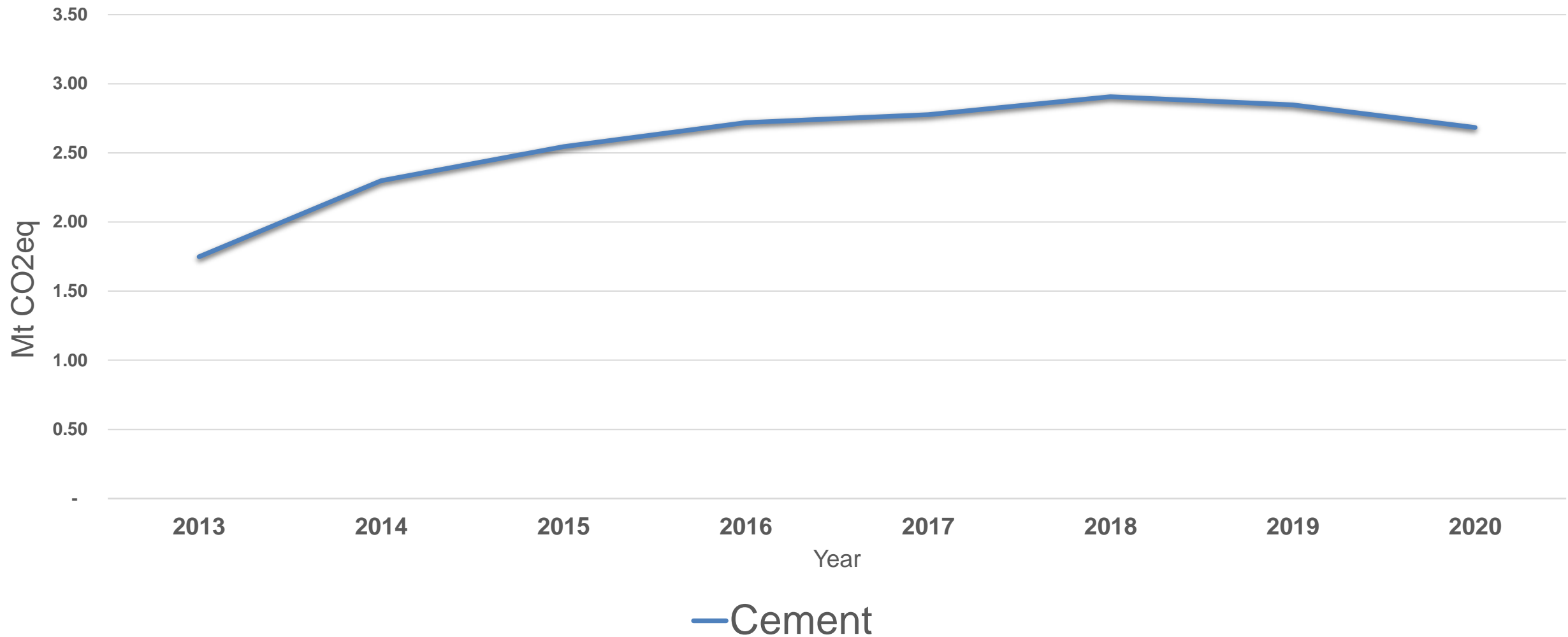


ETS information
■ 1.1 Freely allocated allowances
■ 2. Verified emissions

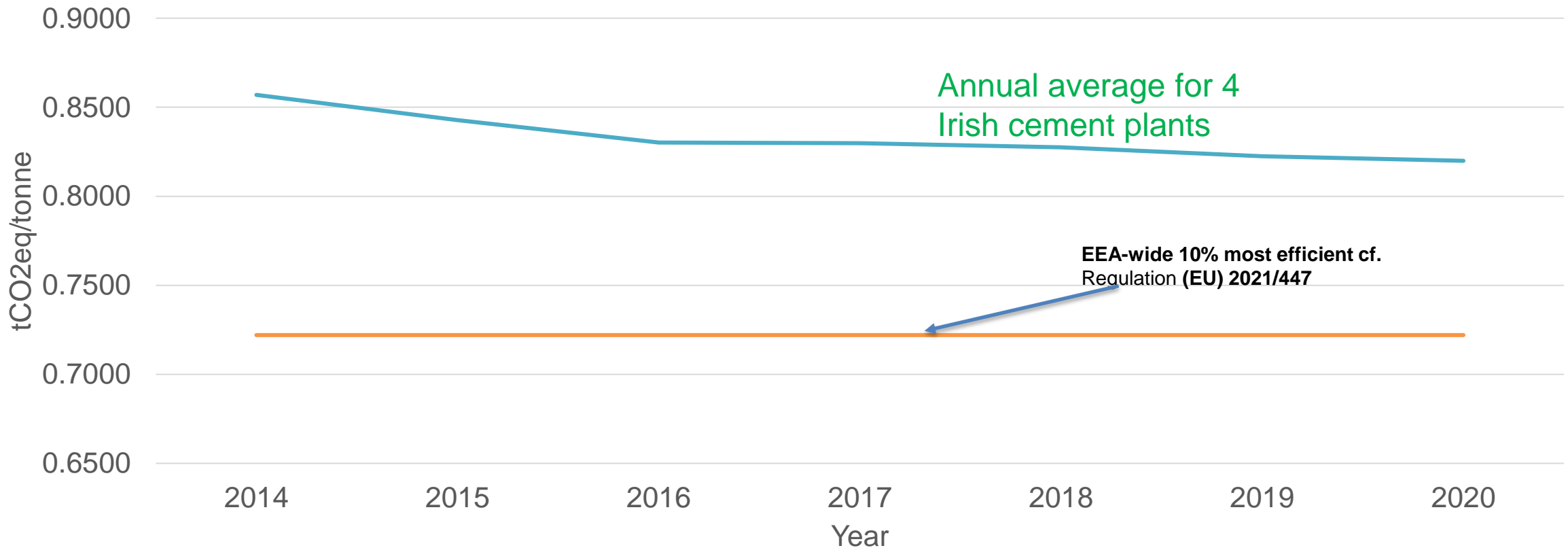
ETS Phase III Sectoral Trends



ETS Phase II Trends Cement Sector



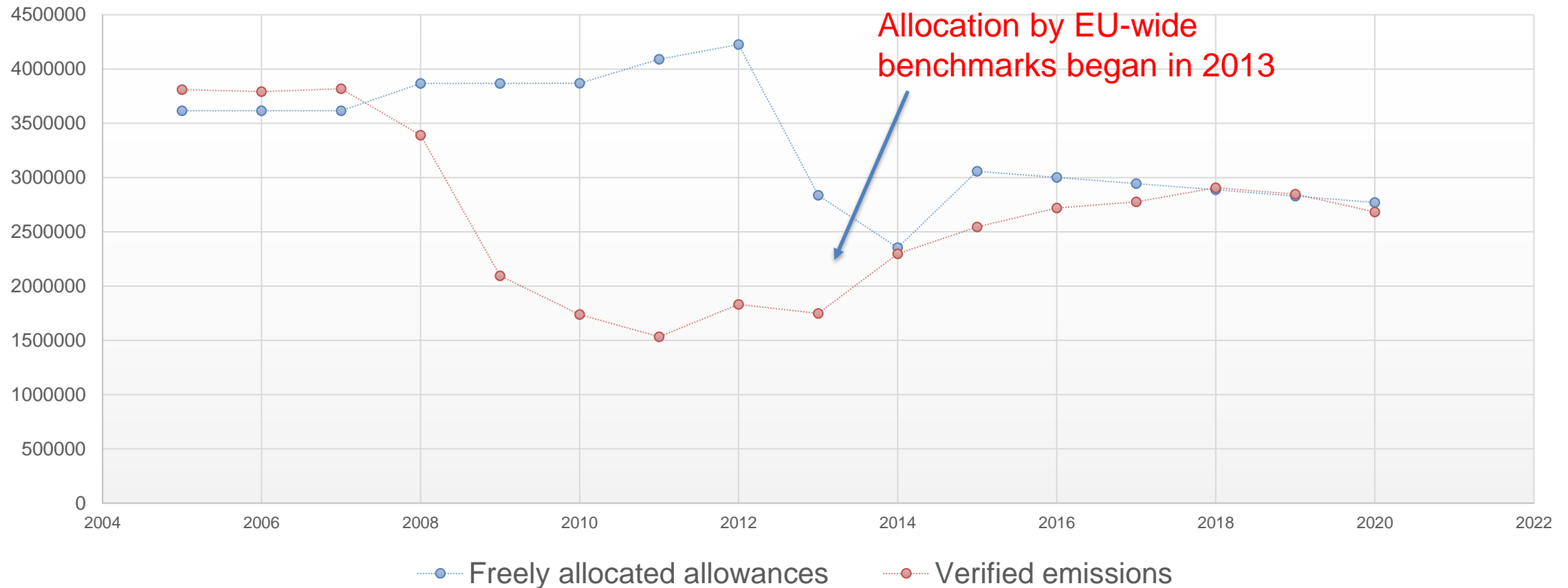
Carbon Intensity of Grey Cement Clinker Production



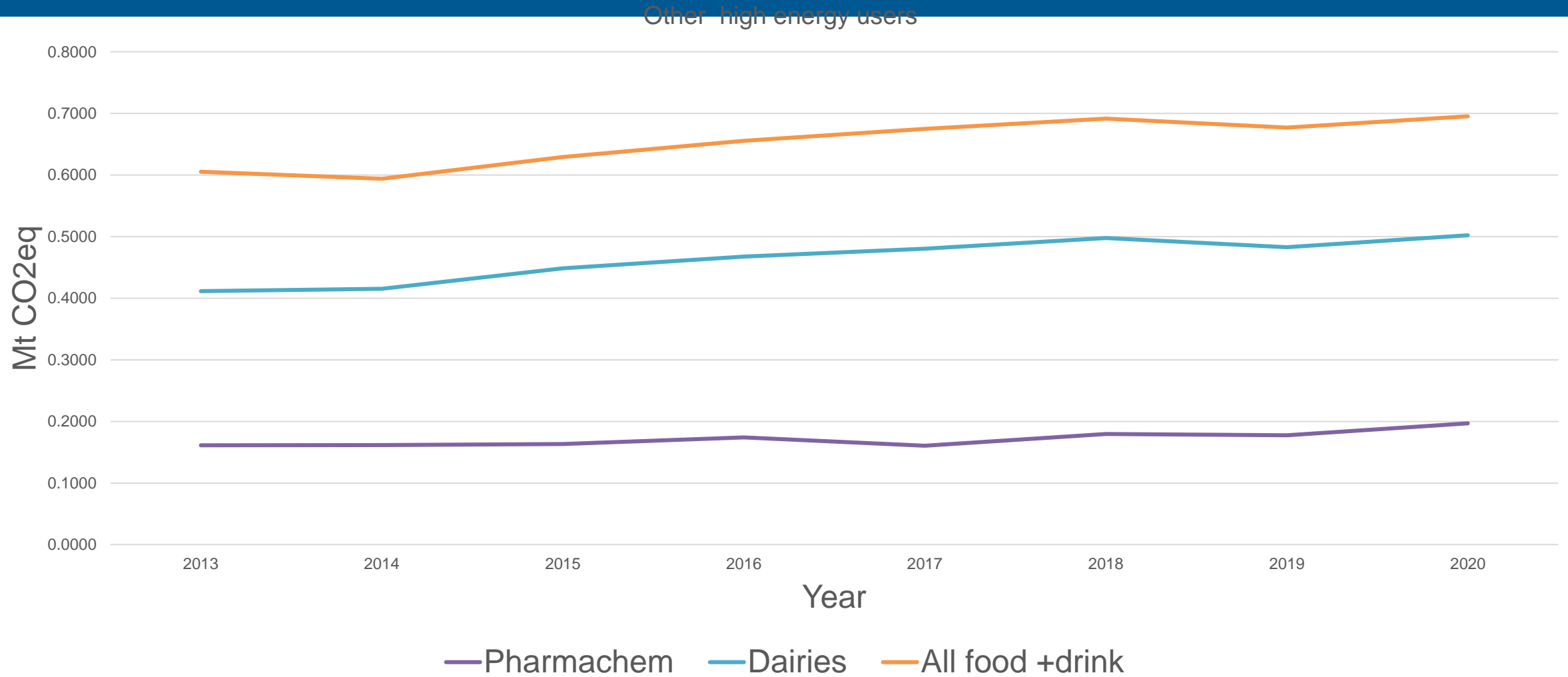
— Average CO2/tonne grey cement

— Average value of the 10 % most efficient installations in 2016 and 2017 (t CO2 equivalents/t)

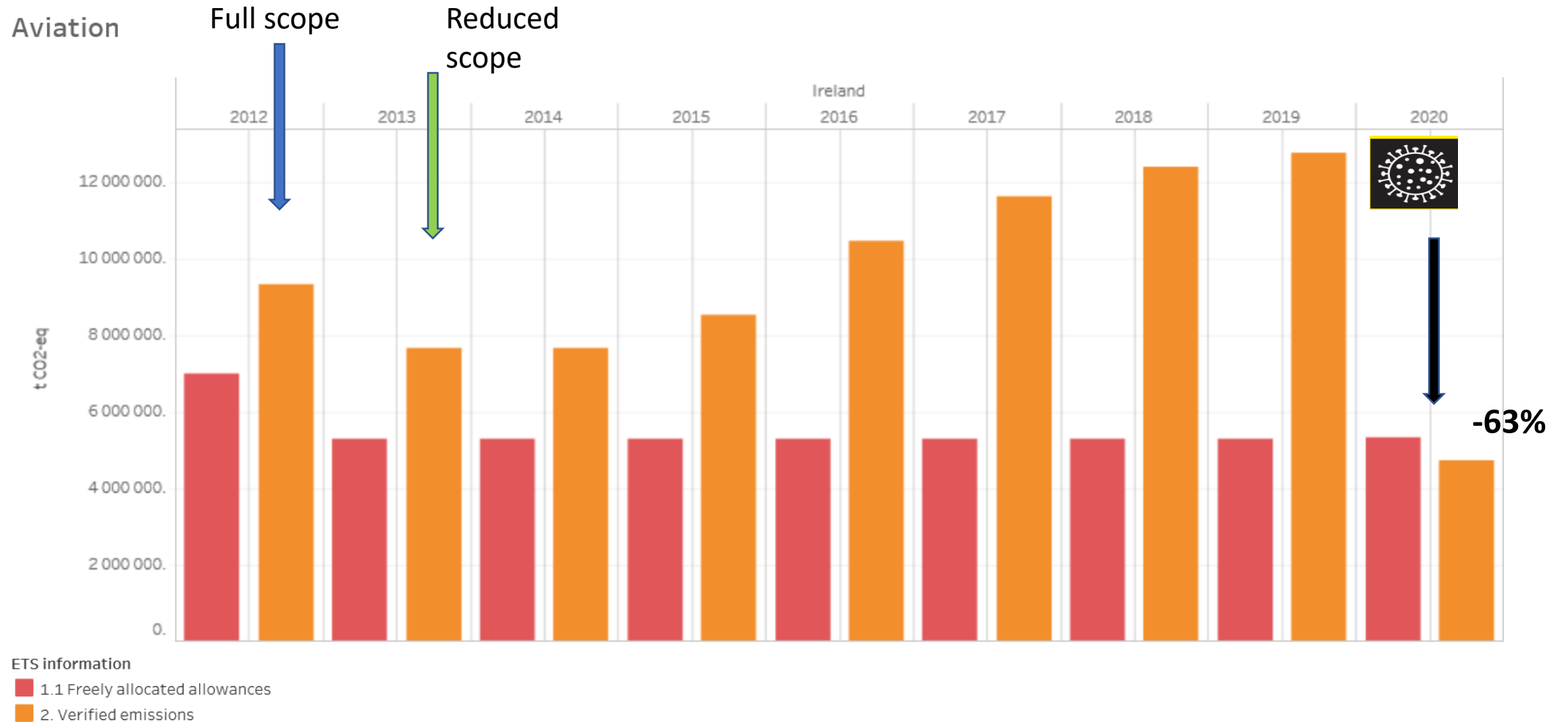
Cement Industry Emissions versus Allocation



ETS Phase II Trends -Other Sectors

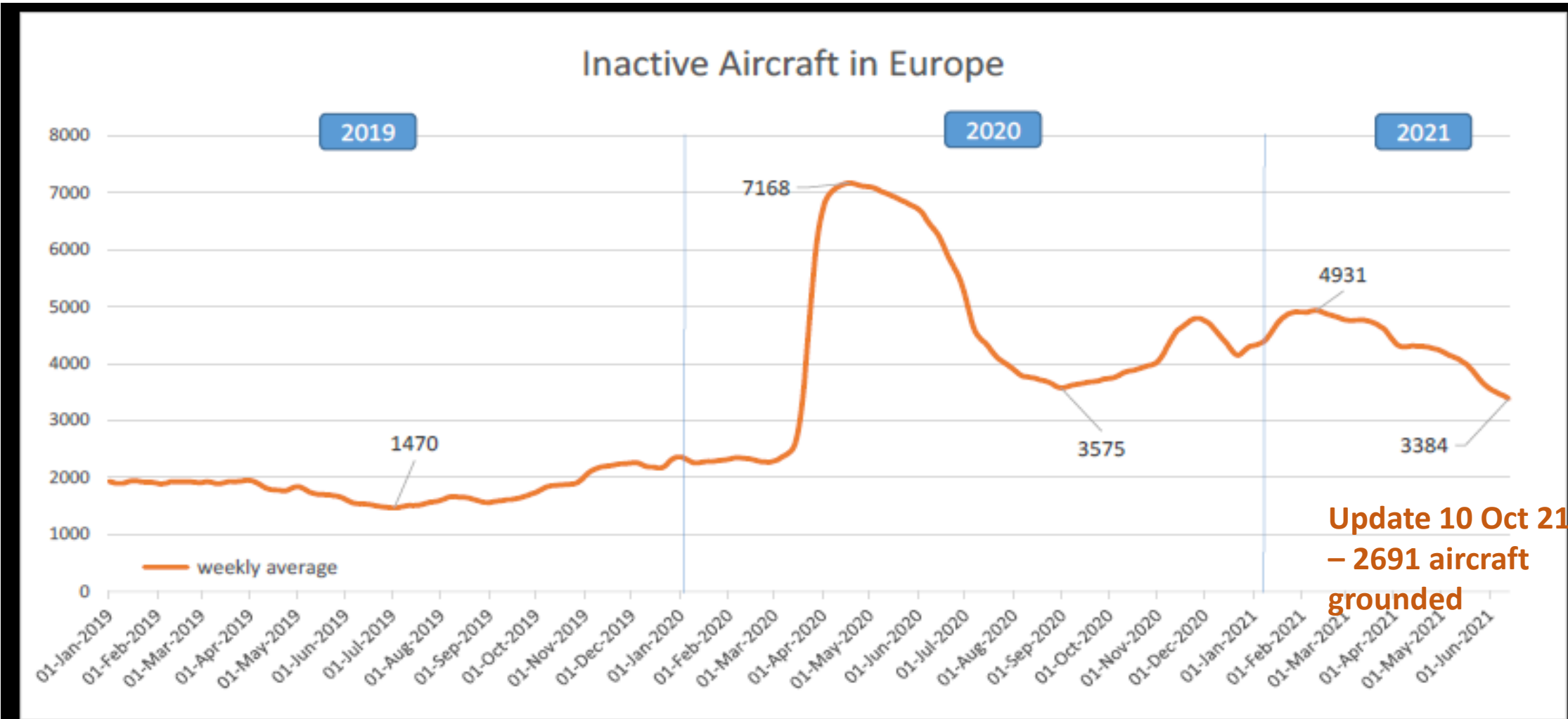


Aviation emissions admin by Ireland 2012-2019- a growing sector pre COVID-19



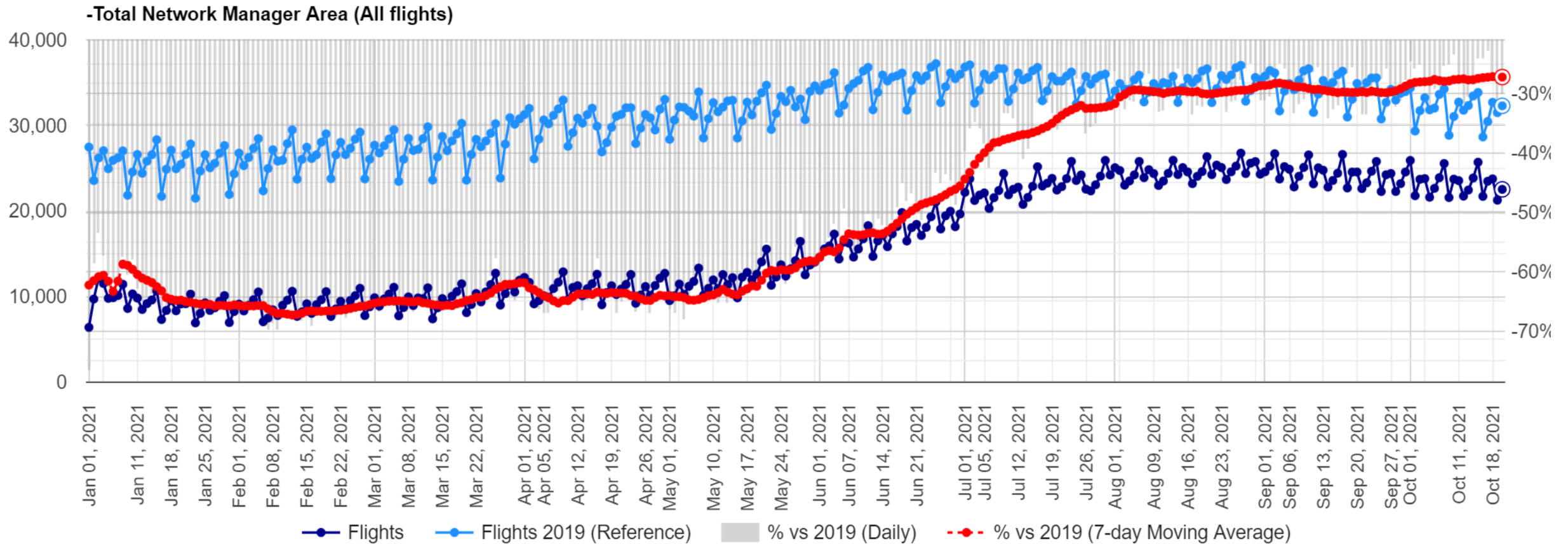
EU Aviation – Covid impact

Eurocontrol data 2021



EU Aviation – Air Traffic

Eurocontrol data 2021



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:

<https://www.eea.europa.eu/data-and-maps/dashboards/emissions-trading-viewer-1>

Please type your questions in the Q&A chat.