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World's First International Emissions Trading System: EU ETS



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Watch Video abstract here

1 The Need for EU ETS

EU ETS was established as a Carbon Trading Mechanism to reduce GHG Emissions in compliance with Kyoto Protocol and Paris Climate Agreement.

2 Cap & Trade Principle

CAP sets a limit to total GHG emsissions volume per year. The limited allowances are distributed among firms.

1 EU Emission Allowance (EUA) = 1t CO₂ equivalent

Figure.1 Explanation

Main Principles behind the financial instrument:

- **Enforce Polluter Pays Principle**
- Counter Free Riding Phenomena
- Club EU for Climate Change Targets
- Ensure Investment in & transition towards carbon offsetting technologies

Primary GHG Target: **Reduce GHGs by 20%** below 1990 levels, by 2020

Scenario 1 Creates Demand EU ETS Mechanism Auction Emissionallowan ssion allowance

Emission allowance

If a facility **exceeds** its EUAs, it can:

- Reduce emissions
 - Buy allowances (offset credits)
 - **Obtain allowance offset** invest in reducing emissions at another source Pay a penalty

If a facilty has **Scenario 2** unused EUAs, **Creates Supply** it can trade those to firms in Exceedance of their EUAs

> **Supply & Demand of** limited allowances creates EU ETS Market



References:

- EU ETS Handbook, European Union (2015)
- Report From The Commission To The European Parliament and The Council, Brussels, COM(2020) 740 final (2020)
- 3) Trends and projections in the EU ETS in 2019, Sean Healy, Verena Graichen, Jakob Graichen, Christian Nissen, Sabine Gores, Anne Siemons, European Topic Centre on Climate change mitigation and energy (2019)