



# EU Emissions Trading System

**Joint procurement of an auction monitor –  
Information day**

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**Disclaimer: The views expressed are purely those of the speaker and may not in any circumstances be regarded as stating an official position of the European Commission**

# Overview

- The role of the EU Emission Trading System (ETS) in overall EU Climate Policies
- Emissions trading: how does it work?
- Essential elements of the EU ETS in the three trading periods
  - Cap
  - Allocation
  - International credits
  - Linking
- Latest actions



# THE ROLE OF THE EU ETS

## in overall EU Climate Policies

# EU ETS in a nutshell (1)

- Largest cap-and-trade system of the world
  - 84% (value) and 76% (volume) of global carbon market
- Designed to achieve greenhouse gases (GHG) emission reductions at least cost
- In place since January 2005
- Cap on emissions of ~10,000 energy-intensive installations across EU
  - Electricity and heat producers, steel, chemicals, cement, glass, pulp & paper
  - Extended scope as from 2013: new sectors and gases: Nitrous Oxide (N<sub>2</sub>O) (chemicals), Perfluorocarbon (PFC aluminium) CO<sub>2</sub> from processes

## EU ETS in a nutshell (2)

- and ~4,000 aircraft operators
- Covering around 41% of EU CO<sub>2</sub> emissions
- Operating in phases :
  - 1<sup>st</sup> phase 2005-07 based on National Allocation Plans (NAPs): pilot phase, building up infrastructure, gathering necessary experience; carbon emission became matter of economic considerations
  - 2<sup>nd</sup> phase 2008-12 based on NAPs: emission reductions achieved, major review to be in force as from 2013; economic crisis
  - 3<sup>rd</sup> phase 2013-2020: new design, 8-yr period, Community based instrument
- EU market value 77 billion € in 2011 (up by at least 6% year-on-year), EU market volume 6 billion allowances in 2011 (up by 17%<sup>5</sup> year-on-year) (source Thomson Reuters Point Carbon)

# Why it is important

- For **environmental** reasons:
  - guaranteed environmental outcome – due to the cap
  - flagship of Europe's approach to achieve its 2020 emission target of -20%
    - 2020 targets: -20% (-30%) GHG emissions, >20% renewable energy, +20% energy efficiency
- For **economic** reasons:
  - liquid market, up to 40 million allowances traded each day on a number of exchanges
  - stable and predictable regulatory framework for businesses
  - achieving smooth transition to a low carbon economy: price signal
- For **political** reasons:
  - experience in the EU ETS informs and influences new or emerging systems (Australia, China, South Korea etc.)
  - biggest source of demand for credits from projects in developing countries



# EMISSIONS TRADING:

## How does it work?

# Essential ingredients for a well-functioning ETS

- **Robust infrastructure**
  - Monitoring: to know how many tonnes are emitted
  - Reporting: to inform authorities
  - Verification: control to safeguard confidence
  - Registry: to account for verified emissions
- Instruments to represent one tonne or CO<sub>2</sub> to emit: **allowances**
- Limited amount of allowances: **cap**
- Clear allocation rules: **how emitters receive allowances**
- **Functioning market to trade: scarcity and tradability**

↳ ***Ensuring environmental objective at least costs***



# Ensuring compliance and compliance cycle

- Robust monitoring and enforcing is the backbone of emissions trading
- No or insufficient surrendering entails high penalties (€ 100 per t/CO<sub>2</sub> not covered by surrendered allowances, ex-post compliance)
- Compliance rate usually higher than 99%

# Functioning of the EU ETS: cost-effectiveness

- Cost-effectiveness means to achieve a given objective at least costs
- Ensured by market mechanism:  
Sale/purchase of allowances determined by business strategy and internal structure of cost of production of installations
  - Installations will sell allowances, if the price of one allowance is more than the cost of abating one tonne of its CO<sub>2</sub> emissions
    - Investing in abatement is cheaper than holding or using the allowances for compliance. Investing in abatement is the best economic choice from a business point of view
  - Installations will buy allowances, if the price of one allowance is less than the cost of abating one tonne of its CO<sub>2</sub> emissions



# Comparison before and after revision of the EU ETS

## Main elements

# The cap – how is it set?

- 1st and 2nd period:
  - Summing up 27 NAPs resulted in EU-wide cap which remained constant over the trading period, but in 2nd period ensured compliance with Kyoto
- 3rd period:
  - **EU-wide cap defined by the EU ETS Directive**
  - Reduction factor constantly decreases the cap beyond 2020
  - Reduction factor to be reviewed before 2025

# Large-scale emission allowance auctions

- 1st and 2nd period: around 4% in second period
- As of 2013, more than half of allowances expected to be auctioned
  - Auctioning Regulation No 1031/2010 adopted in November 2010
  - 8 Member States submitted applications for gradual phase-out of free allocation to electricity producers
  - Commission proposed reporting requirements for Member States on the use of the auction revenues

# Linking

- 30 countries participating in EU ETS:
  - 27 EU Member States
  - Three European Economic Area (EEA) states: Norway, Iceland, Liechtenstein
- Other linking possibilities:
  - Switzerland
  - Australia
  - New Zealand
  - China
  - South Korea



# Market developments: LATEST ACTIONS

# Impact of the recession, progress in energy efficiency and many changes

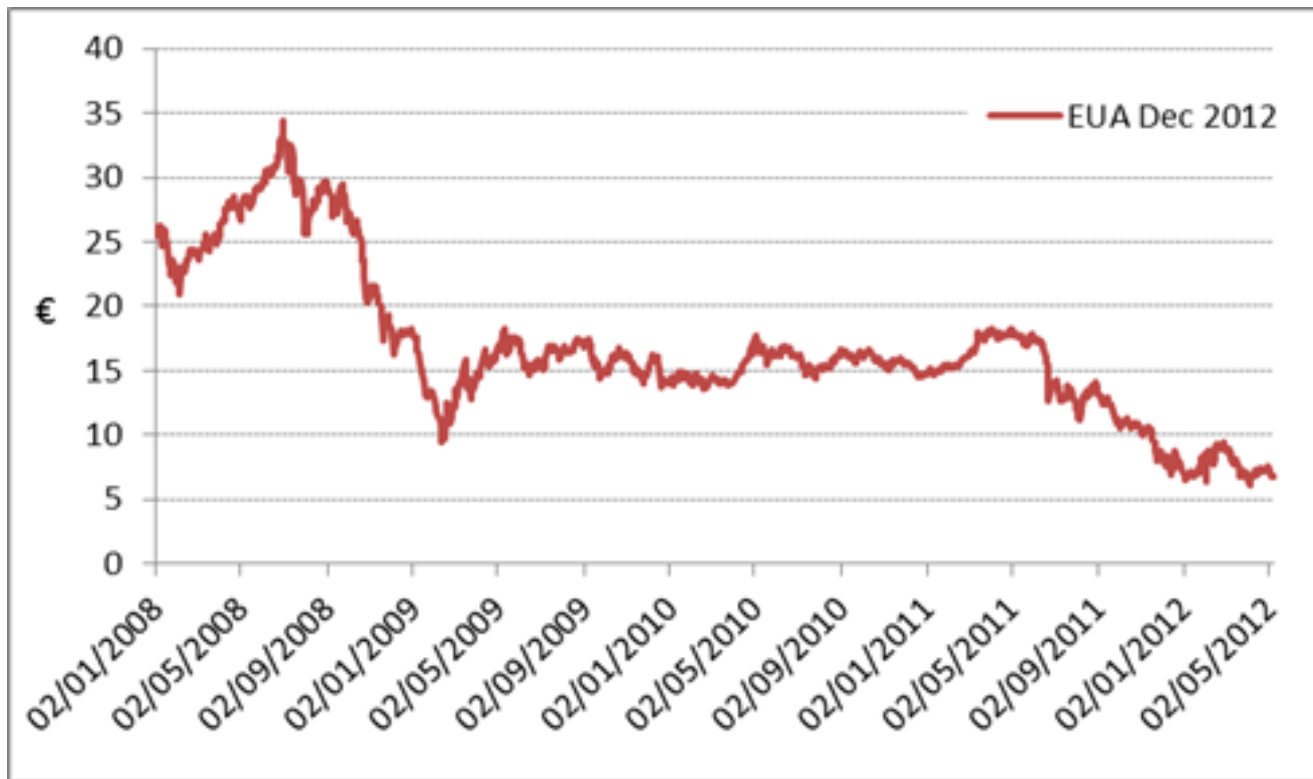
- Severe recession has deeply altered the demand for allowances
- As the impact assessment of the Energy Efficiency Directive proposal pointed out, full implementation of the EU ETS Directive can have an impact on the EU ETS price signal
- Worsening supply and demand imbalance: mounting surplus of allowances



A weak price signal



# Carbon price evolution in phase 2



Source: Bloomberg New Energy Finance

# European Commission's approach

The Commission proposed on 13 November 2013 the **review of the time profile for allowances**:

- Volumes to be auctioned earlier in the 3<sup>rd</sup> phase should be auctioned later ("back loading")
  - 900 million allowances

The Commission proposed on 16 November 2013 a postponement of auctioning of aviation allowances

## European Commission's approach(2)

### Carbon Market Report on 14 November 2012

- Structural measures proposed:
  - Higher target for 2020 ⇒ increase GHG reduction target to 30%
  - Retiring a number of allowances in phase 3 (from the amount foreseen to be auctioned)
  - Early revision of the annual linear reduction factor (1,74 %)
  - Extension of the scope of the EU ETS to other sectors
    - would also include sectors less strongly influenced by economic cycles
      - ✓ other energy related CO2 emissions such as fuel consumption in other sectors (transport?)
  - Limit access to international credits
  - Price management mechanisms

# Thank you for your attention!

For more information see:

[http://ec.europa.eu/clima/policies/ets/index\\_en.htm](http://ec.europa.eu/clima/policies/ets/index_en.htm)

For the EU ETS regulatory updates subscribe to:

[http://ec.europa.eu/clima/rss/news\\_regulatory\\_en.xml](http://ec.europa.eu/clima/rss/news_regulatory_en.xml)

# Ensuring compliance and compliance cycle (cont.)

- Compliance cycle
  - Each installation to monitor and report its emissions of year  $x-1$
  - Preparation of report on emission of year  $x-1$  as from Jan of year  $x$
  - 28 Feb of year  $x$ : free allocation for year  $x$  (constant auctioning)
  - End of March of year  $x$ : verification of emissions of year  $x-1$  by independent verifier
  - By 28 April of year  $x$ : surrendering of allowances for emissions of year  $x-1$

# Differences: transitional and definitive auction platform

- AR provides for some **derogations** when it comes to tasks performed by TCAP (in relation to definitive platform)
  - Derogations (Art 28.3 AR):
    - ✓ provision of remote access through electronic interface, dedicated connection and alternative means of access to auctions (Art 16.2 and 16.3 AR)
    - ✓ training and helpline services (Art 17 AR)
    - ✓ requirements for admission to bid (Art 19 AR) , submission and processing of applications for admission to bid (Art 20), refusal, revocation or suspension of admission (Art 21)
    - ✓ market abuse regime applicable to auctioned products (Art 36 to 43 AR)
    - ✓ monitoring the relationship with bidders, notification of money laundering, terrorist financing or criminal activity, notification of market abuse (Art 54, 55, 56 AR)
    - ✓ publication of contact details of bidders bidding on behalf of others (Art 60.3 AR)
    - ✓ language regime of communication by auction platform (Art 63.4 AR) and right of appeal (64 AR)