



# INTERNATIONAL BACKGROUND CONVENTION ON CLIMATE CHANGE (Rio de Janeiro 1992) Kyoto Protokol 1997 - 5% reductions (2005 - 2012) European - wide GG emission reduction target: 8% during the period 2008 - 2012 comparing to 1990 levels (burden sharing for EU MS)

# INTERNATIONAL BACKGROUND Doha Amendment 2012 ■ new obligations for MS in Annex I for the 2nd period (2013-2020) ■ 18% reductions ■ revision of the list of GG COP 21- Paris 2015 ■ new global Climate Change Convention ■ new obligations for the period 2020 .... ■ voluntary national reductions – EU 43% 2030

#### **Implementing the Kyoto Protocol in the EU**

GG reduction target:

- Emission trading (ET)
- Joint implementation of obligation to reduce GG emissions (JI)
- Clean Development Mechanisms CDM)

#### **EU LEGISLATION ON CLIMATE CHANGE**

- 1. Legislation on emission reductions
- 2. Legislation on energy efficiency
- 3. Legislation on renewable sources of energy

#### Energy and climate package:

- 20% GG abatement target
- 20% renewable energy target
- 20% energy efficiency target



by 2020

#### 20% GG emission reductions target

The Climate and Energy package sets for the Union a 20 % GHG emission reduction target by 2020 compared to 1990. This effort has been divided between the sectors covered by:

- a) Emission Trading System ('ETS')
- b) non-ETS sectors under the Effort Sharing Decision (ESD 2006/944).
- ETS provides an EU-wide cap
- ESD sets annual emission allocations in the non-ETS sector for each Member State.

#### The emissions trading system (EU ETS) (2013-2020)

"Cap and Trade" principle a cap is set on the total amount of certain GG that can be emitted by installations covered by the EU ETS system: CO2, N2O, PFCS

- A single, EU-wide cap on emissions (absolute quantity of GG which may be emitted in the EU) applies in place of the previous system of national caps
- The cap is reduced over time, total emissions will fall
- In 2020, emissions from sectors covered by the system will be 21% lower than in 2005.
- In 2030, under the Paris commitment, they would be at least 40% lower.

#### **EU ETS (2013-2020)**

- Emission allowance = the right to emit one tonne of carbon dioxide (CO2) or the equivalent amount of two more powerful greenhouse gases, nitrous oxide (N2O) and perfluorocarbons (PFCs)
- Emission allowances free allocation - auctioning
- Companies can trade these allowances with one another as they need.

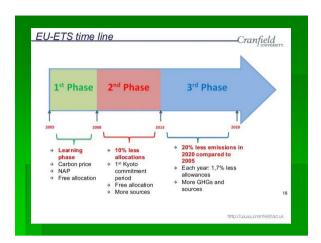
#### **EU ETS (2013-2020)**

International credits are financial instruments that represent a tonne of CO2 removed or reduced from the atmosphere as a result of an emissions reduction project. They are generated through:

- Joint Implementation ERUs
- Clean Development Mechanism
   CERs



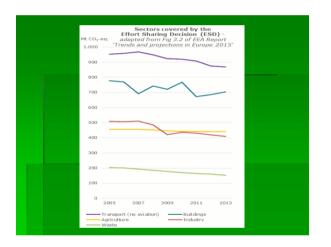
Exchange of credits for EU allowances

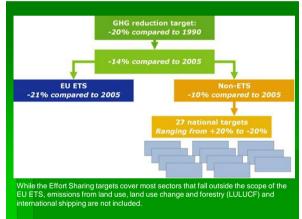


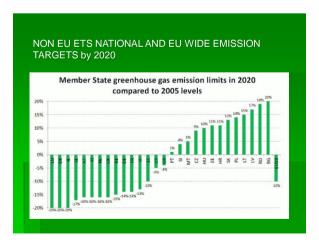
#### **NON EU ETS sectors**

#### **Effort Sharing Decision**

- for most sectors not included in the EU ETS, such as transport, buildings, agriculture and waste.
- establishes binding annual greenhouse gas emission targets for Member States for the period 2013–2020
- reduction by non-ETS sectors of -10% compared to 2005 that is then shared out between EU Member States







### Monitoring, reporting and verification mechanisms

- monitoring anthropogenic GG emissions
- evaluating the progress made by MS and the EU
- setting up the national and European registries and programs
- ensuring timely, transparent and correct reporting
- data submitted in the emissions report must be verified

#### 2020 target ....

The EU is on track to meet the 20% target for 2020:

- EU emissions were reduced by 23% between 1990 and 2016, while the economy grew by 53% over the same period.
- EU emissions decreased by 0.7% in 2016, while GDP grew by 1.9%.

(https://ec.europa.eu/clima/policies/ets\_en)

#### **Key EU targets for 2030**

- At least 40% cut in greenhouse gas emissions compared with 1990
- At least 32% of total energy consumption from renewable energy
- At least 32.5% increase in energy efficiency

https://ec.europa.eu/clima/citizens/eu\_en

#### Long-term goal

https://ec.europa.eu/clima/citizens/eu\_en

- By 2050, the EU aims to cut its emissions substantially – by 80-95% compared to 1990 levels as part of the efforts required by developed countries as a group.
- Turning Europe into a highly energy efficient and low-carbon economy will also boost the economy, create jobs and strengthen Europe's competitiveness.

#### The EU ETS legislation

- Directive 2003/87/EC establishing a scheme for greenhouse gas emission allowance trading within the Community as amended
- Commission Regulation (EU) No 1031/2010 on the timing, administration and other aspects of auctioning of greenhouse gas emission allowances pursuant to Directive 2003/87/EC

## **EU ETS Implementing legislation**

- Regulation (EU) No 389/2013 establishing a Union Registry pursuant to Directive 2003/87/EC
- Regulation (EU) No 601/2012 on the monitoring and reporting of GG emissions pursuant to Directive 2003/87/EC
- Regulation (EU) No 600/2012 of 21 June 2012 on the verification of GG emission reports and tonne-kilometre reports and the accreditation of verifiers pursuant to Directive 2003/87

## **Energy and climate** package - renewables

- 20% renewable energy target to be attained in 2020
- Directive 2009/28/EC on the promotion of the use of energy from renewable sources



- target to be reached by 2020 for the EU is a share of 20% energy from renewable sources in gross final consumption of energy.
- each MS has its own 2020 binding target
- Directive (EU) 2018/2001 on the promotion of the use of energy from renewable sources (target 32% of energy from RS)
- Date of transposition: 30/06/2021

#### **Energy and climate** package - energy efficiency

Directive 2012/27/EU on energy efficiency as amended

- To enhance cost-effective improvements in energy efficiency. (32% target by 2030)
- Applies to companies involved in the distribution and sale of energy and final consumers of energy. It does not apply to companies subject to the EU ETS (ET Directive)

#### **Energy and climate** package - energy efficiency

Directive 2010/31/EU on the energy performance of buildings 2018/44



- Calculation of energy efficiency
- Minimum energy efficiency requirements
- Energy performance certificate

#### **Energy and climate** package - carbon storage

- Directive 2009/31/EC of the European Parliament and of the Council of 23 April 2009 on the geological storage of carbon dioxide
- 3 phases capture, transportation, permanent storage

#### Legislation on other activities

Directive 2009/30/EC (amending Directive 98/70/EC) as regards the specification of petrol, diesel and gas-oil and introducing a mechanism to monitor and reduce greenhouse gas emissions (as amended)

Rules on the specification various fuels have to meet so that they can be marketed throughout the EU

#### Legislation on other activities

Regulation (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014 on fluorinated greenhouse gases (F- gases)

Rules on use, containment, recovery and destruction of F- gases

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