



State Aid Guidelines for compensation for indirect CO2 costs of the EU ETS

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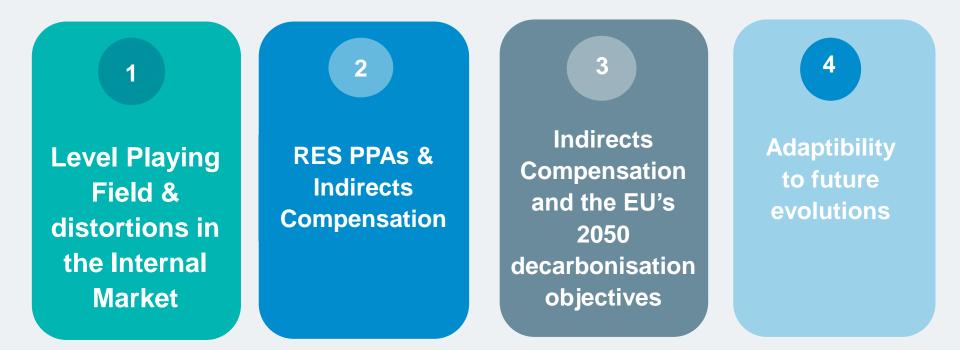
Revision of the State Aid for compensation for the Indirect Costs of the EU ETS Guidelines

ERCST Brussels, 29th March 2019

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Presentation's Outline

Today we will cover 4 issues:



But first, let me introduce the Non Ferrous Metals sector...

Our Energy Profile

How non-ferrous metals are produced &

why electricity costs are so important



3 key facts about non-ferrous metals production in Europe

One of Europe's most electro-intensive industries

Electro-intensive

| 13 |
|-----------|
| ΔΙ |
| |
| Aluminium |

Electricity = **38%** of production costs



Electricity = **40%** of production costs



Electricity = **35-40%** of production costs

Rising demand being replaced by imports

Metals demand increase by 2050*





+300% +200%



BUT

European production is being replaced by imports with higher carbon footprint

Tonnes of CO₂** China 15.5 Europe 4.8



As price-takers, we cannot pass on any regulatory costs to the customer





4 * EU *

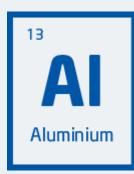
Metals priced globally by London Metals Exchange

Electricity costs vary from country to country

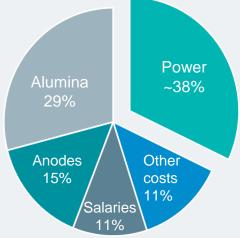
Automatic competitive disadvantage on global market



Massive exposure of metals with increasing ETS price



Electricity costs = **38*-45%** of production costs, decisive for investments



Indirect costs =



- 19% cannot be passed on to the customer (Price Taker)
- 19% sales price is far above profitability ratios



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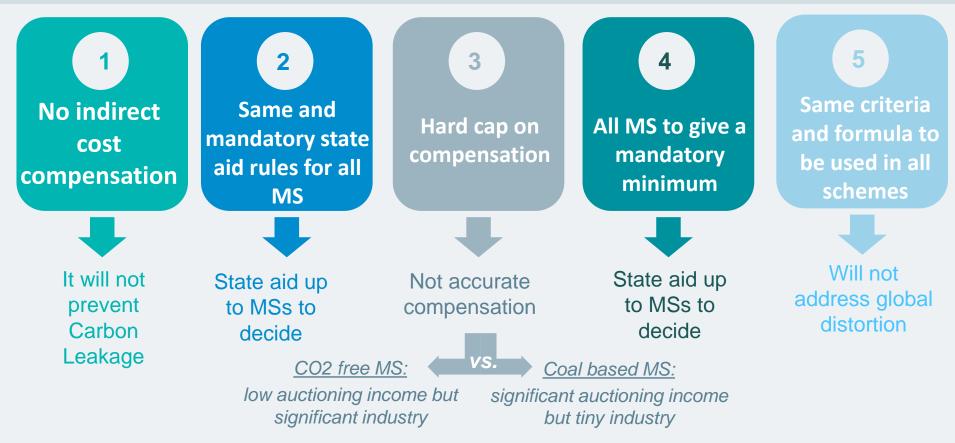
The result is further carbon leakage

1. Level Playing Field and Market distortions



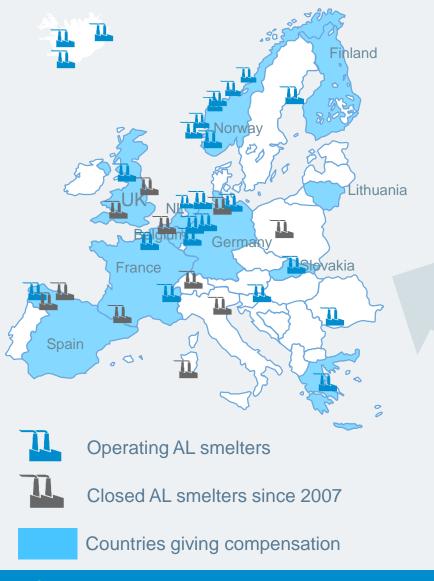
Options presented in the paper

The presentation gives 5 options. However, for our sector, **none will mitigate concerns**... why?



EU State Aid rules need to address distortions between EU and non-producers

The key market distortion for our industry is between EU & non EU producers



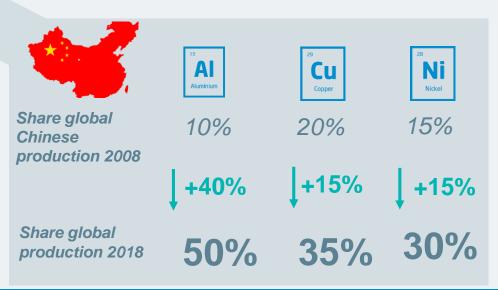
@Eurometaux

Pa.8

of European aluminium primary production is located in countries compensating indirect ETS costs

BUT

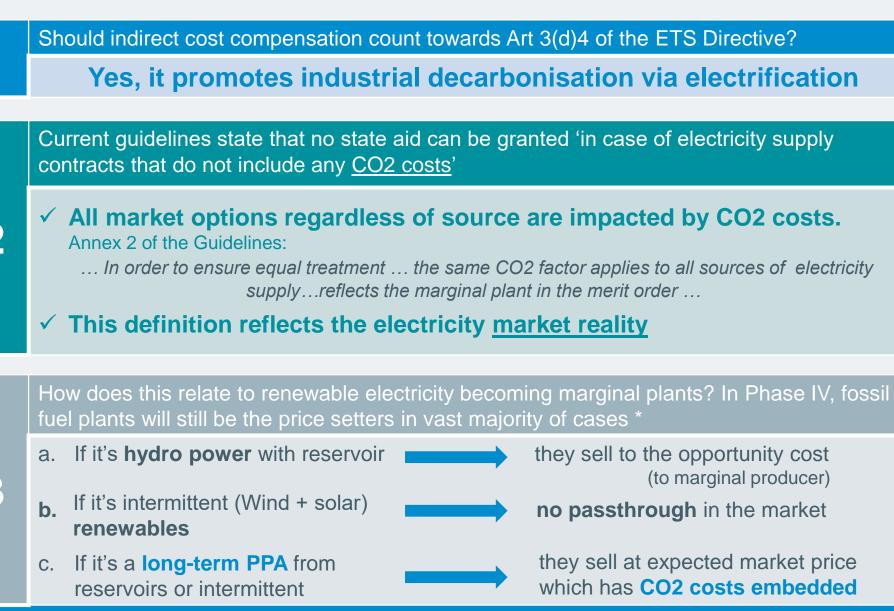
European production sites closing, being replaced by (more carbon intensive) imports



2. RES PPAs & Indirects Compensation

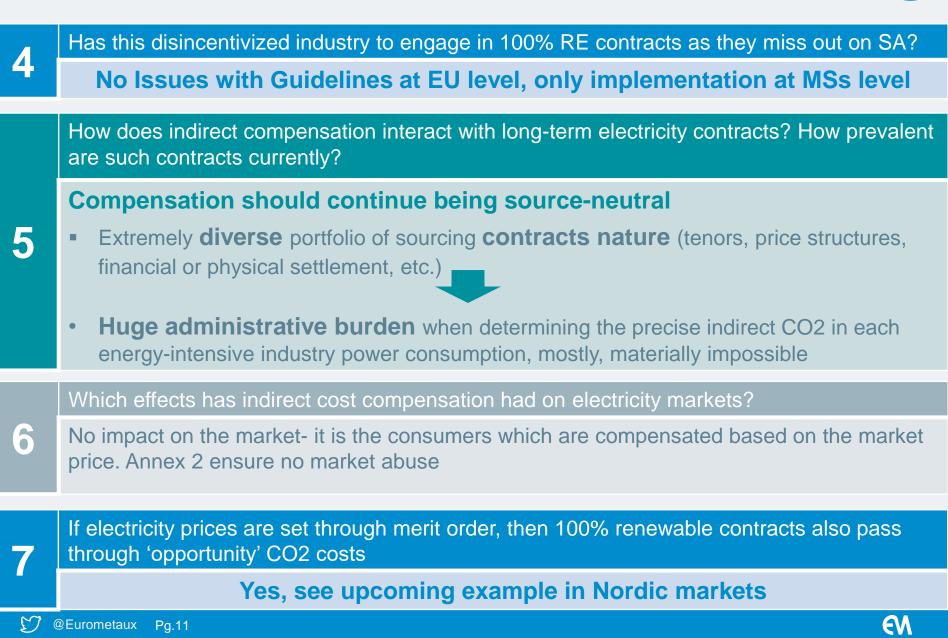


Issues outlined in the presentation



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Issues outlined in the presentation



Renewable Energy & Long term PPAs -Non-ferrous metals leadership

Renewable Energy

+ Add to myFT

Norsk Hydro in 'biggest' deal to secure wind FINANCIAL farm energy

New renewables PPAs in our industry:



Long term renewable PPAs – a 'win-win' for both parties

- For developers: Enabling new large scale wind farms through a stable revenue stream
- For Industry: Long term horizon for investment
 wants to reduce risk of volatility by achieving predictable power costs

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Indirect carbon costs: Myth & Reality



Compensation reduces incentive to switch from "grey to green" electricity



EU ETS effect on power prices is independent of power sources



Marginal producer price setting mechanism

Price impacted by ETS even entering into PPAs

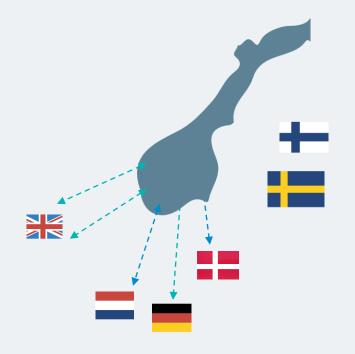
Long term PPAs with renewable projects do not reduce our exposure to indirects costs

Indirect Carbon Costs with renewable PPAs?

Yes.

Even with renewable PPAs, companies still face full indirect carbon costs

Example – Green Aluminium Production in Norway



Norwegian NFM production **is carbon free** now based on hydropower... and on wind in the future

BUT

Fossil fuel production in Nordics and interconnectors set the marginal cost for Nordic electricity generation

The industry reality is that **100% of electricity costs** are impacted by indirect CO2 costs

Existing interconnector

←--→ Interconnector under construction

Recent long term PPAs do not reduce indirect carbon cost exposure

3. Policymaker Priorities



Question raised in the presentation

Should indirect cost compensation count towards Art 3(d)4 of the ETS Directive?

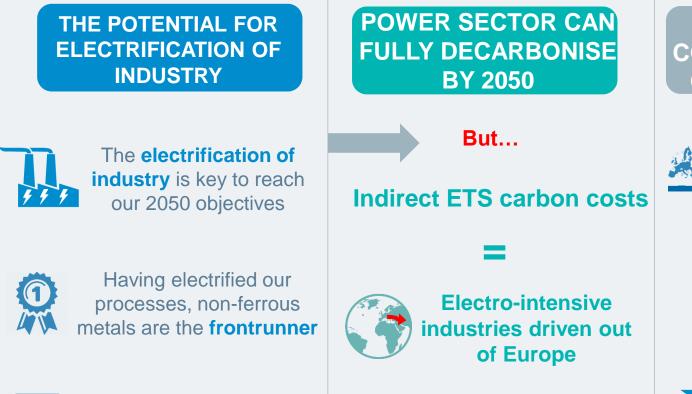
All Revenues generated from the auctioning of allowances should be used to tackle climate change

Indirect costs compensation is a climate friendly measure that encourages industry to further electrify and survive as power generation decarbonizes

Yes.

Electrification for decarbonisation

Indirects compensation and the EU's 2050 agenda go hand in hand





Other sectors (i.e. steel & chemicals) may follow – regulatory framework will be crucial to the shift

Unless we put in place an adequate compensation system POSITIVE COMPETITIVENESS & CLIMATE IMPACTS



With an adequate State Aid regime, EU production can survive the short-medium term cost impacts of the transition

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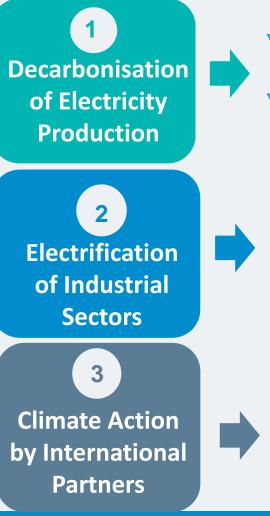
Import dependency from regions with higher carbon footprint

4. Adaptability to future evolutions



Adapting to future evolutions

The presentation notes 3 future evolutions:



- Yes, update the emissions pass through factor to reflect this development
- An increasing share of intermittent generation means that the share of thermal power declines, however <u>the thermal power</u> <u>influence will not diminish accordingly</u>

Some sectors have heterogeneous processes and regulatory framework should encourage electrification

Need to do a deep analysis and see what industry *actually* pays indirect carbon costs

(i.e. Canadian provinces no indirect carbon costs due to different market design).