

IFIEC Energy Forum 2013 Competitiveness of European EII in a globalised economy

Session III – Climate

Steel perspective

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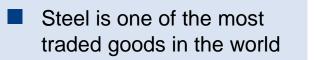




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- 2. Impact of EU climate policy on steel's global competitiveness
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1. Global competitiveness of the EU steel industry



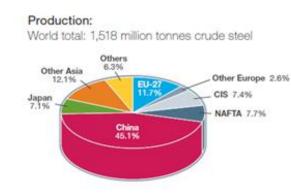


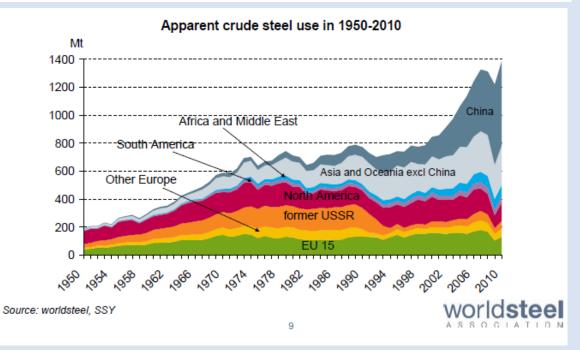
- Trade intensity of EU steel industry over 30%
- EU proportion global steel production shrinking from 22% to 11%
- Global steel production to grow by over 70% by 2050

2001

Production: World total: 851 million tonnes crude steel

2011







Disadvantages	Advantages
Access to raw materials	Productivity
Labour costs	Skills
Energy costs	Efficiency
Protectionism by non-EU	Innovation
Regulatory costs	

1. Global competitiveness of the EU steel industry



Disadvantages	EU's possibility to do something about it	
Access to raw materials	X	
Labour costs		
Energy costs	XX	
Protectionism by non-EU	XX	
Regulatory costs	XXX	

2. Impact of EU climate policy on steel's competitivenes's ^{European Steel Association}

Costs of EU climate policy really matters

- Costs of CO2 (direct and indirect)
 - 2 tCO2 per tonne of primary steel
 - 0.5 tCO2 per tonne of secondary steel
- Costs of renewable energies

Example:

- € 500 average sales price per tonne of steel
- 10% net profit margin in good times
- 0% net profit margin or negative in bad times (e.g. 2012)
- At profit margins between €0 and €50 a CO2 price of €3 or €30 has a real negative impact.
- Current climate policy creates uncertainty and frustration in industry, and keeps investment away

2. Impact of EU climate policy on steel's competitiveness



Climate policy costs 2005 to 2012

- Due to crisis and unused allowances no direct costs for most companies
- This is by pure chance as crisis was totally unforeseen
- But high indirect costs (CO2-cost pass through by power sector): substantial costs in particular for electro-intensive steel scrap recycling (Electric Arc Furnace route) due to carbon price (even if relatively low) and RES policies

Future climate policy costs - Problem will become massive when

- Economic crisis is over and steel consumption grows
- Unused allowances are used up
- Carbon price will raise
- Correction factor cuts free allocation
- No free allowances post 2020 according to current ETS legislation (only 25% of the benchmark as free allocation in 2021 going down to 0% in 2027)

Moderate annual crude steel production growth of 0.8% from 2010-2050 expected if conditions are right



Historically, crude steel production stable in EU15 but declining in Eastern Europe

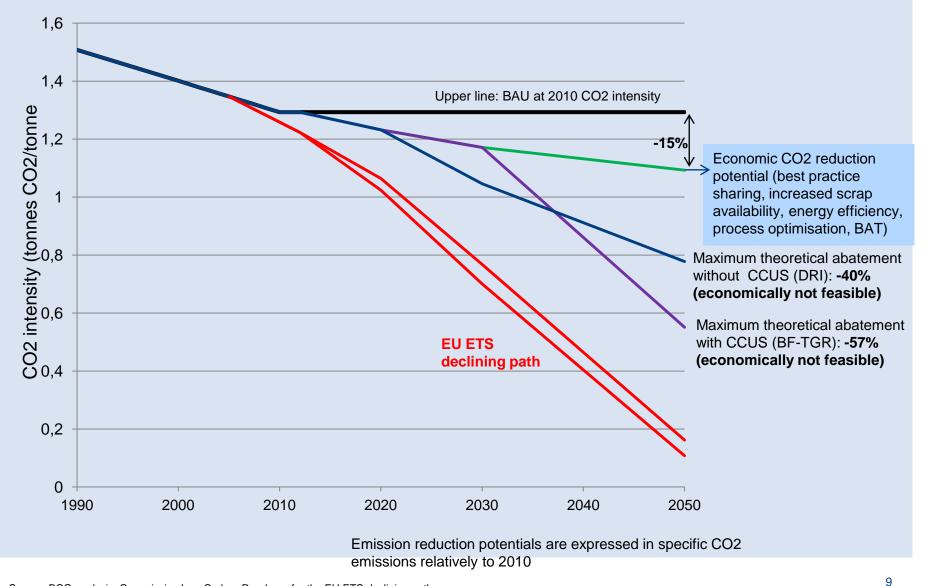


Going forward, slow growth expected for EU27, 2007 production level will be reached in 2032



3. Mitigation potential of the EU steel industry





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3. Mitigation potential of the EU steel industry



- 1990 2010 EU steel industry reduced total CO2 emissions by 25%
- 1990 2010 EU steel industry reduced CO2 emissions per tonne of steel by 14%

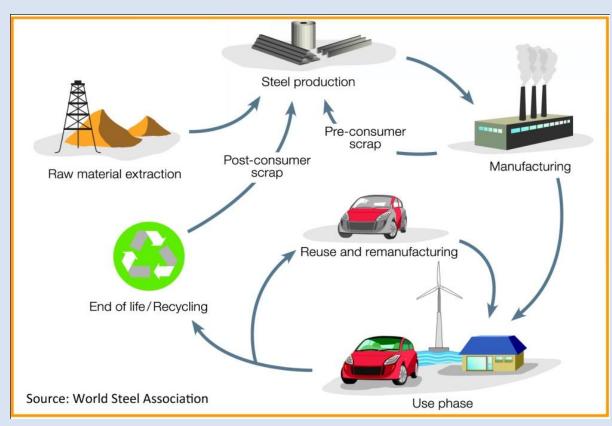
Results of study by The Boston Consulting Group and Steel Institute (2013):

CO ₂ per tonne of steel compared to 2010	2030	2050
Increased EAF share and best practice sharing scenario	-6%	-11%
Economic scenario	-9%	-15%
44% Scrap-EAF, 45% DRI-EAF, 11% BF-BOF scenario	-19%	-40%
CCUS scenario	-9%	-57%

4. European steel as a CO2 mitigator



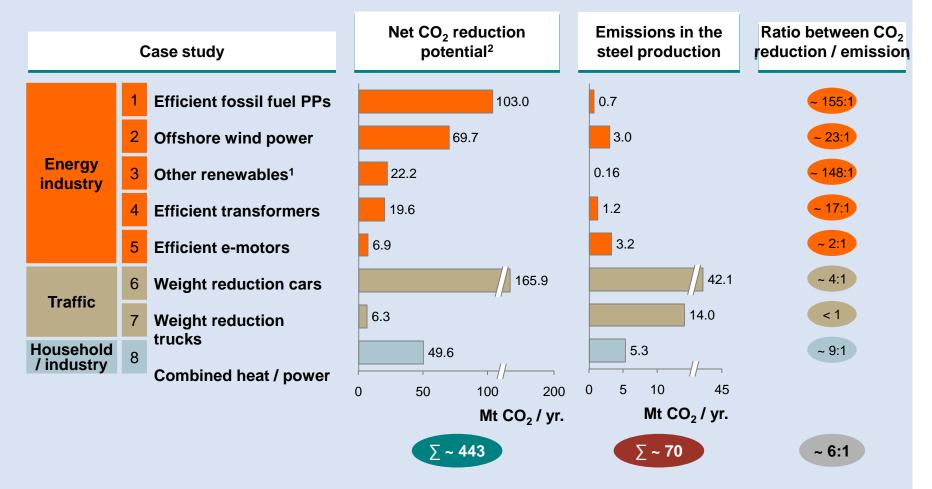
- Steel is a permanent material
- 100% recycable without loosing its properties
- Steel recycling massivly contributes to CO2 mitigation



4. European steel as a CO2 mitigator



Case studies for EU27 result in annual CO₂ savings of ca. 440 Mt – over double of total direct emissions from EU steel production



5. Elements for a sustainable EU climate & energy policitie European Steel Association

Quick fix of ETS with backloading or structural measures is damaging

EU needs to focus on reform post-2020 now !

A right 2030 energy and climate framework is crucial.

Recommendations

- Targets need to be technically and economically feasible ("bottom-up")
- Best performers must not incur any direct or indirect costs
- Globally competitive energy prices are conditional to decarbonisation in Europe
- Set target to decrease gap in industrial energy prices between EU and its competitors
- Member States to provide low-carbon infrastructures (e.g. CCS)
- Increased support for R&D, pilot, demonstration, and market application
- Without comprehensive international agreement EU needs to rethink unilateral targets
- Future policies must recognise the positive role materials such as steel play as CO2 mitigator (integrated approach)



Europe needs a real policy for industry.

A policy for growth, jobs and innovation which other EU policies such as energy, climate and trade are part of and conditional on – and not vice versa

THANK YOU !