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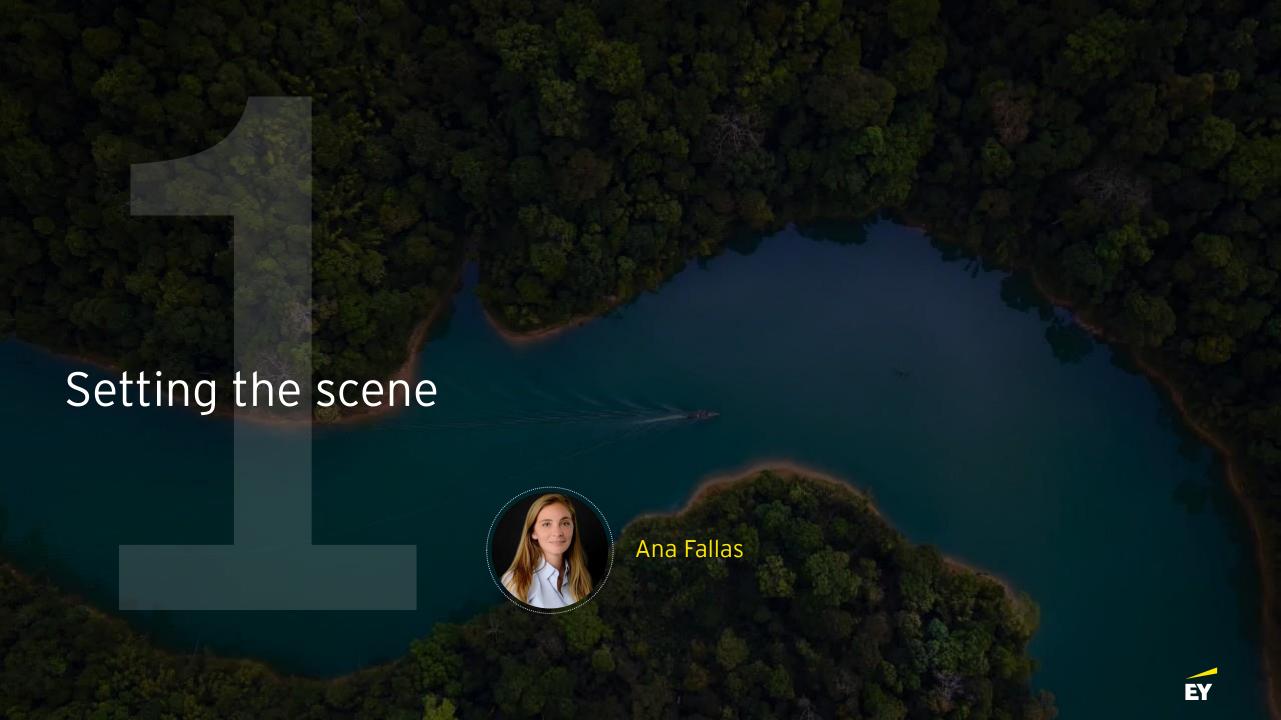
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If you have any questions, please use the Q&A feature





## Setting the context – European Green Deal

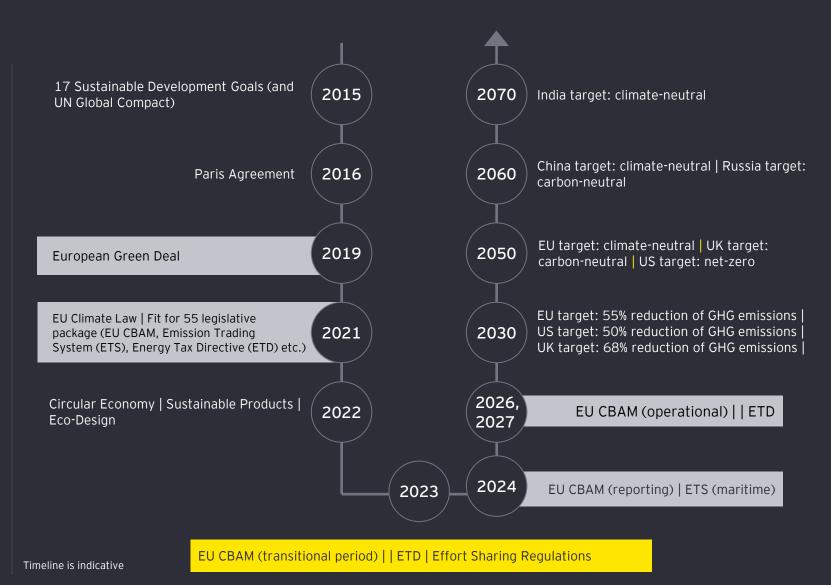
## **European Green Deal objectives**

- No net emissions of greenhouse gases (GHG) by 2050



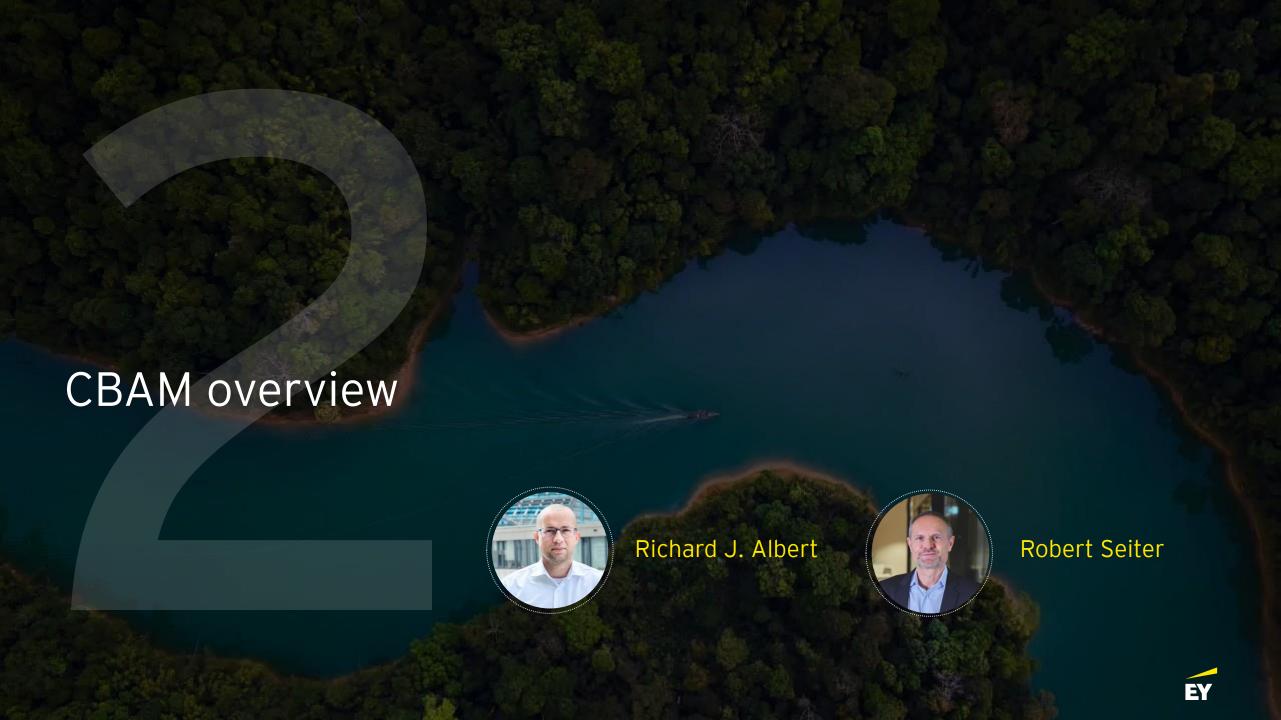
industry

Climate action





Biodiversity



## Overview - CBAM

## **Product categories**

- Cement
- Fertilizers
- Iron and steel (including some down stream products)
- Aluminium
- Electricity
- Hydrogen

Political discussions seem to favor extending CBAM further by 2030, to cover all product categories that are subject to the EU ETS if these products were manufactured in the EU. This would include polymers, diverse chemicals, mineral oil products, paper and pulp, among other categories.

## **Emissions** covered



**Direct and indirect emissions** related to manufacture + electricity

Footprint calculation may at some point be extended to cover further indirect emissions, e.g., transportation

# Geographic scope

Import from non-EU, except products originating in:

🛨 Switzerland 🔀 Iceland

 На Norway

 Liechtenstein

Other jurisdictions may also apply a type of carbon border policy (e.g., ongoing discussions in UK, Switzerland, Japan, Canada and others)

## CBAM certificate requirement

- Release of goods for customs-free circulation
- Irregularities occurring to goods under customs supervision (non-Union goods)

## **Timeline**





<sup>\*</sup> $CO_2$  = carbon dioxide, PFCs = perfluorocarbons,  $N_2O$  = nitrous oxide

## A simplified example for CBAM calculation

Assumption: 1,000 tons of steel, worth EUR 510/per ton

Embedded emissions In imported product

(emission intensity per kilogram)

X

Actual weight of imported product

X

Price of CBAM certificates

Carbon price paid at origin

Assume 1.85 t of emission per tonne of steel

1,000 t of steel arriving by vessel

EUR 80 per EU-A\* certificate No carbon payment at origin

Steel purchase price

EUR 510,000

+ CBAM certificates

EUR 148,000

EY

## Areas of potential indirect and direct impact





Non-EU manufacturer

Non-EU distributor

EU buyer/distributor EU buyer/manufacturer

## Indirect impact - compliance

This manufacturer will be asked by its customer to calculate and provide emissions data based on EU CBAM regulations.

## Indirect impact - compliance

This distributor will be asked by its customer to provide emissions data of the supplier/manufacturer to the EU buyer.

### **Direct impact**

This buyer/distributor is required to report (2024) and pay for (2026) embedded emissions to the EU authorities.

### Indirect impact - cost

This customer may find increased costs of materials purchased and may seek suppliers with lower embedded emissions.





## Timeline: obligations and consequences of non-compliance



CBAM will be introduced in a phased approach from 1 October 2023, with gradual changes in the required approach to calculating embedded emissions. The scope of CBAM is expected to be expanded over time alongside incremental reductions in the allocation of free allowances under the ETS. It is anticipated all goods covered under ETS will be included in 2030.

#### 1 Oct 2023

Transitional period begins

#### 31 Jan 2024

Deadline for first quarterly CBAM report

#### 31 Apr 2024

Deadline for second quarterly CBAM report

# Failure to submit CBAM report and/or failure to correct CBAM report (if needed) will result in a penalty EUR 10-50 per tonne of unreported embedded emissions

#### 31 Jul 2024

- Deadline for third quarterly CBAM report
- Introduction of mandatory use of new EU framework or equivalent monitoring frameworks to calculate embedded emissions
- Final date for modifications to first and second CBAM reports and introduction of 2 month deadline for modifications

#### 31 Dec 2024

 Introduction of mandatory use of EU framework for calculating embedded emissions

#### 31 Dec 2025

- Authorisation required to import goods covered by CBAM in 2026
- If authorization is not completed, import of goods is no longer possible
- Deadline for review of expanding scope of covered goods and expected Commission report on export adjustments

#### Jan 2034

Phase out of free allowances under ETS complete

#### **Dec 2030**

Scope of CBAM expected to expand to include all goods covered by ETS

#### Dec 2027

Commission to complete review of impacts of CBAM

#### 31 May 2027

- First CBAM certificate surrender deadline
- First CBAM declaration submission deadline
- ► Failure to surrender CBAM certificate: penalty EUR ~100\* per each certificate

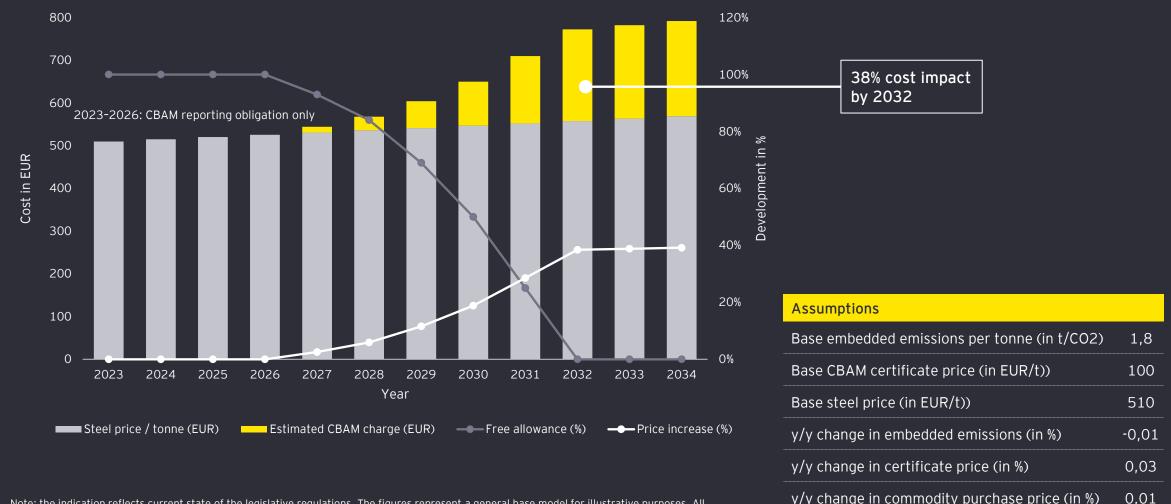
#### 1 Jan 2026

 Fully operational period – phase out of free allowances under ETS begins



<sup>\*</sup>Penalty shall be identical to the EU ETS excess emissions penalty

## CBAM as a cost component of steel (illustrative)\*



Note: the indication reflects current state of the legislative regulations. The figures represent a general base model for illustrative purposes. All aspects may be subject to change. In modeling projects, we typically develop a number of scenarios.



<sup>\*</sup>Based upon latest European Parliament text adoption (22 June)

## Act now to address short-term CBAM compliance requirements

Now

Next

## Beyond



Achieve short-term CBAM reporting compliance by setting up a high-level GHG emission calculation approach that is independent of supplier-specific data.

Inform the suppliers in a timely manner on the required data and the best method of measurement as most of them are not aware of the upcoming CBAM regulation and do not collect the relevant emission data.



Suppliers need time and guidance to implement monitoring systems and measure direct and indirect emissions.

If suppliers can not deliver the required data, new suppliers may still be selected in time.



Prior full scope implementation, consider a test phase for measurement methods to close data gaps and find potential for improvement.



Compliance with regulatory requirements is mandatory to avoid sanctions and reputational damage.

Use data to better manage supply chain flows in terms of CBAM costs by engaging with suppliers to reduce emissions and considering existing carbon price schemes.



## Calculation of embedded emissions during transitional period

(1)

## Actual embedded emissions

- Determining emissions from source streams on the basis of activity data
- Determining emissions from emission sources by means of continuous measurement

EU base method



## (2)

# MRV and alternative methods

Methods used under monitoring, reporting and verification systems (MRV) or other methods, with any of the following applicable monitoring rules:

- A carbon pricing scheme where the installation is located
- An emission monitoring scheme at the installation which can include verification by an accredited verifier; or
- Compulsory emission monitoring schemes

Until 31 December 2024 only



## (3)

## Standard values

(country benchmark for direct emissions)

Allowed ONLY when actual emissions "are not available" and no other method for closing data gaps is available

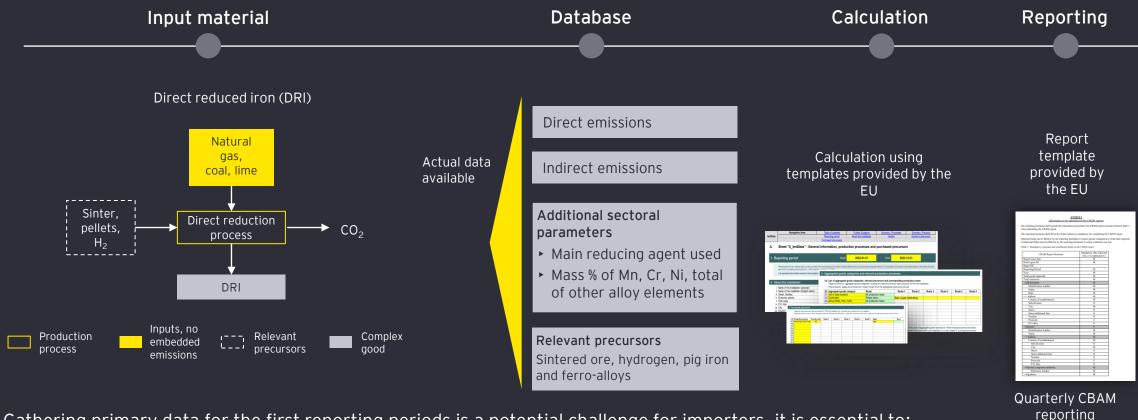
Until 31 July 2024 only

- While the EU ETS

   applies to certain
   production processes
   and activities, the
   CBAM targets
   corresponding
   imports of goods
- Requires clearly identifying imported goods by way of their classification in the Combined Nomenclature ('CN') and linking them to embedded emissions
- CBAM emissions are calculated in a different way from Scope 1, 2, 3 emissions
- CBAM reporting requirements require determination of direct and indirect embedded emissions



## Determining embedded emissions – with primary data

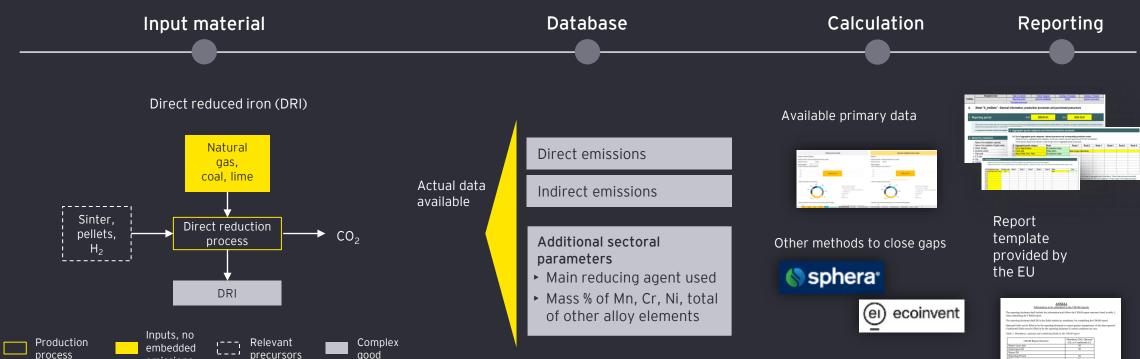


Gathering primary data for the first reporting periods is a potential challenge for importers, it is essential to:

- Set up a high-level GHG emission calculation approach that is independent of supplier-specific data to address short-term CBAM reporting compliance requirements
- Inform the suppliers on the required data and the best method of measurement on a timely basis, as most may not be aware of the upcoming CBAM regulation and do not collect the relevant emission data



## Determining embedded emissions – with primary data



The approach to meet compliance requirements should be based on:

- Available information for the importer
- Using other methods to address compliance needs
- Using EU standard values, if no other method is available to close the gap

Based on EU standard values (if applicable)



Information to be submitted in the CBAM reports		
he reporting declarant shall include the informat han submitting the CRAM report.	on and follow the CBAM report structu	e listed in
he reporting declarant shall fill in the fields much	ed as mandatory for completing the CB	AM report
erional fields can be filled in by the reporting de		
inditional fields must be filled in by the reportion	Andrews if costain conditions are men	
able 1: Mandators, updated and conditional field		
	Mandatory (M), Optional	
CBAM Report Structure	(O), or Conditional (C)	
Export issue date	M	
Druft report 8D	M	
Report ID		
Reporting Period	M	
Year	M	
Total goods imported	M	
Total emissions	M	
-Off declarant	M	
Montification number	M	
Name	М	
Role	M	
Address	M	
Country of cotablishment	M	
Sub-division	0	
City	М	
Steet	0	
Street additional line	0	
Number	0	
Pertoole	C	
P.O. Box	0	
-Importor	c	
Monthstire tomber	M	
Name	M	
-Address	М	
Country of ostablishment	M	
Sub-division	0	
City	M	
Street	0	
Street additional line	0	
Number	0	
Postcode	0	
P.O. Bire	0	
-National competent authority	M	

Quarterly CBAM reporting

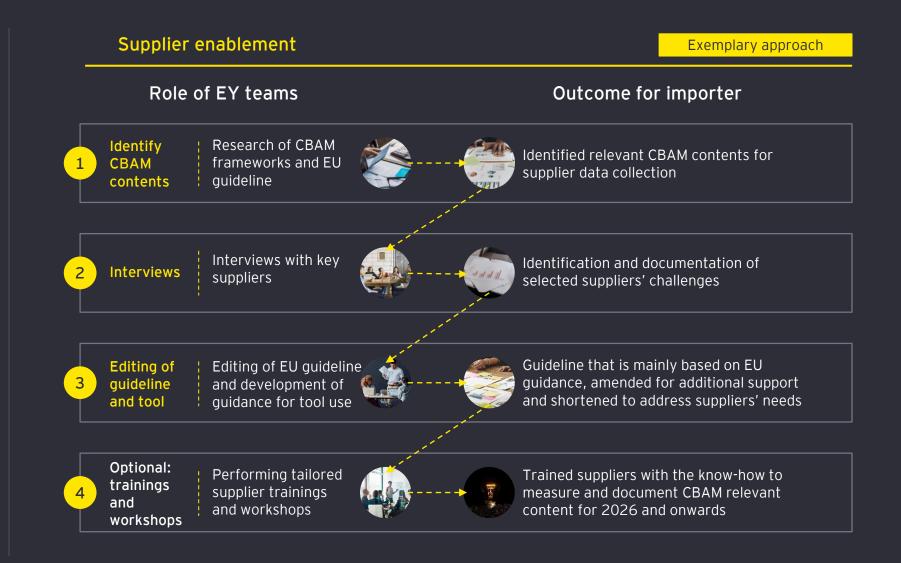


## After securing compliance, next steps include supplier enablement

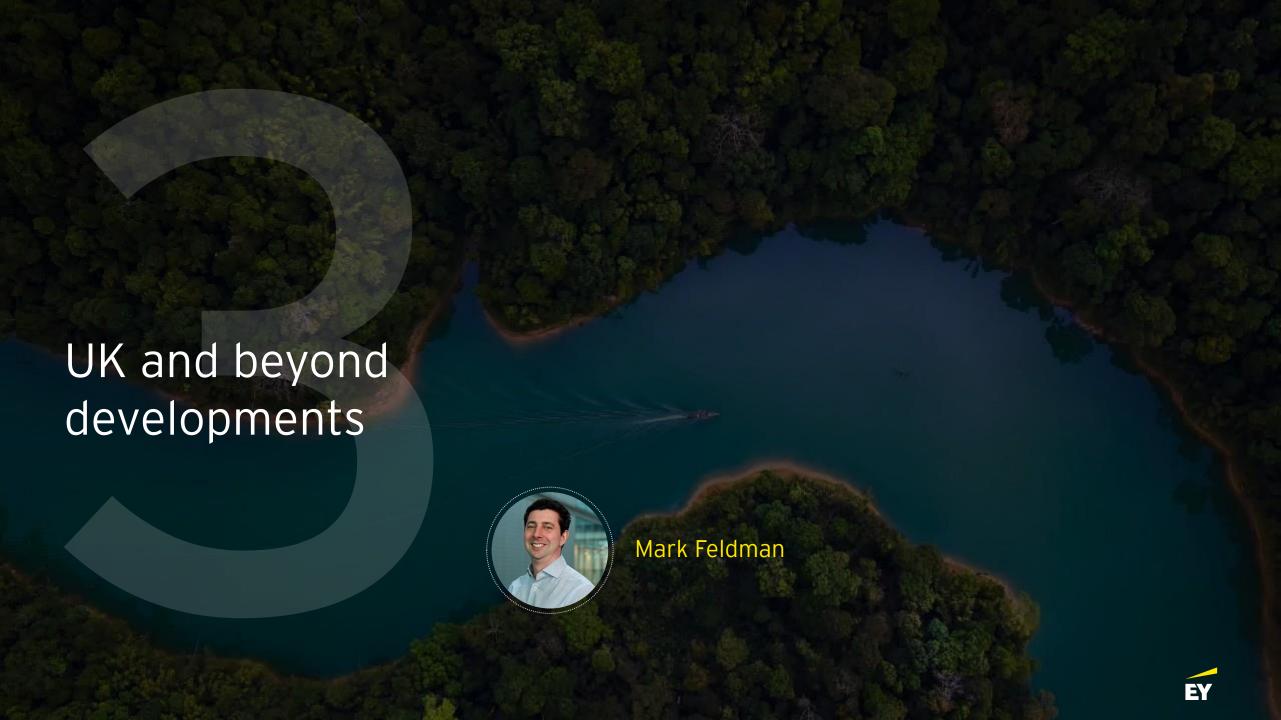
Long-term goal: Enable suppliers to independently collect relevant data, calculate GHG emissions according to CBAM rules and report the required data to the importer.

Exemplary approach: Inclusion of key suppliers during the process to support a more tailor-made guideline and guidance when using EU templates.

In addition, supplier trainings and workshops can be held in order to convey relevant knowhow in terms of measurement and documentation of CBAM relevant data.







## EU CBAM – UK peculiarities: Northern Ireland trade arrangements

- CBAM is likely to add complexity to trade between Great Britain (GB) and Northern Ireland (NI)
- NI continues to apply EU customs rules on certain imports, which could be impacted by CBAM

# Movement of goods between GB and NI Key 'Green lane': streamlined customs procedures for qualifying goods 'Red lane': full customs procedures in place for goods "at risk" of entering the EU No customs procedures

Key CBAM issues relating to the NI trade arrangements

Exact interactions between CBAM and NI will likely be subject to discussions between the EU and UK

#### Key challenges:

- GB-NI trade "at risk" of entering the EU
- Electricity trade between GB-NI

Join tomorrow's webcast to hear more about this topic and other UK aspects in more detail. Click here to register.



## UK CBAM: Still a question of "if" rather than "when"?

- The UK's CBAM consultation to "address carbon leakage risk to support decarbonisation" was wide-ranging: a CBAM, mandatory
  product standards (MPS) and emissions reporting
- Response from Ernst & Young LLP (UK): Highlighted the importance of international alignment on the design of CBAM and streamlining processes for business

#### **UK CBAM consultation scope**

## Overlap with Broader than EU CBAM: EU CBAM:

► Non-

metallic

minerals

Paper and

pulp

- Cement
- Iron and steel
- Fertiliser
- Power generation
  - r Refining
    ration Chemicals
- Non-ferrous Glass metals

Note: Hydrogen is in scope of the EU CBAM but not the UK CBAM consultation.

#### Issues raised in UK consultation

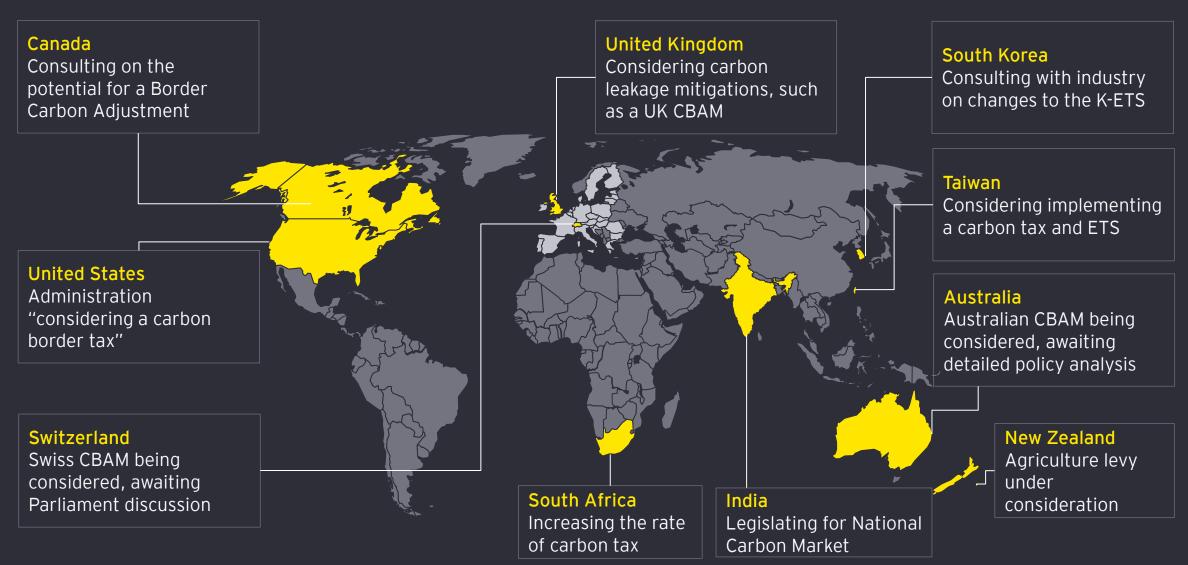
- Potential sectoral coverage
- Application of UK CBAM to Scope 2 and Scope 3 emissions
- Use of emissions data/independent verification OR default values
- Carbon price to be used to calculate cost
- Difference between the UK effective carbon price and the effective carbon price in country of origin

#### Trade concerns identified within the consultation

- Treatment of developing country exports
- UK's commitments to the World Trade Organisation
- Export competitiveness of UK producers
- International alignment on methodology, default values and verification of emissions reporting
- For MPS, regulatory alignment of standards
- Addressing circumvention measures and downstream carbon leakage where intermediate products are in scope
- Potential use of voluntary carbon markets in the future towards CBAM and/or MPS costs

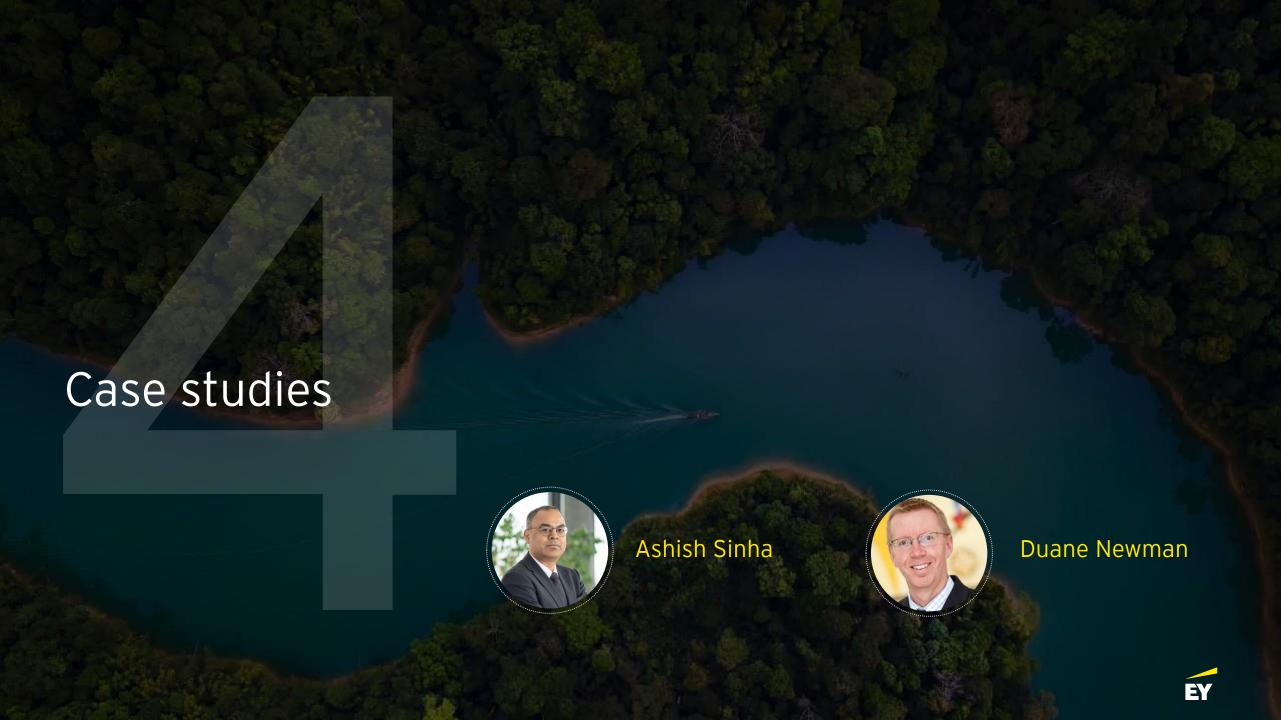


## Snapshot of global carbon pricing activity



Sources: Canada Government of Canada, United States White House Senate, United Kingdom gov.uk, South Korea International Carbon Action Partnership, South Africa SARS, India ICAP, New Zealand. govt.nz, Australia, ey.com





## Illustrative case 1 | CBAM imposes new compliance obligations for Swiss/Non-EU Principal operating models

Customs

### Case study 1: Swiss Supply Chain Principal with Toller

#### Background

- Supply Chain Principal is based in Switzerland
- Under the toll manufacturing setup Swiss Principal owns the raw materials and imports the CBAM covered material into the EU

#### Key challenges

- Swiss Principal becomes liable for CBAM reporting via its indirect customs representatives
- Non-EU companies may have difficulty to control the process and access to the EU trader portal

## **Suppliers Swiss Supply** Toll Chain Principal manufacturing

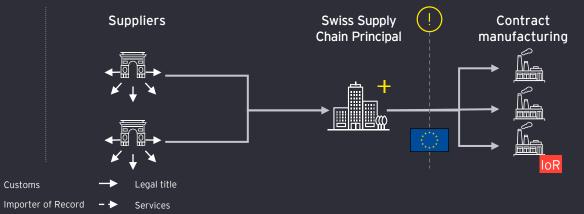
### Case study 2: Swiss Supply Chain Principal with CM

#### Background

- Same as under 1, with multiple CM entities importing CBAM covered goods into the different EU member states
- Goods may be purchased from the Principal company or directly from the suppliers

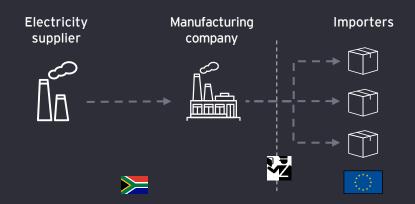
#### Key challenges

- Duplication of data gathering efforts from (multiple) suppliers
- Multiple CBAM authorized declarants
- Lack of central coordination on reporting as well as discharge of CBAM certificates (2026 onwards)
- Comprehensive and complicated reporting





## Illustrative case 2 | CBAM results in significant cost increase for African aluminum company



## Project approach

## Tasks completed

- Identification of CBAM covered products
- Indicative CBAM cost impact modeling based on actual embedded emissions calculation

#### Broader transformation

- Develop a strategy to change inputs into processes for complex products
- Develop strategy to rapidly decarbonize, especially electricity indirect emissions
- Explore other potential consumer markets

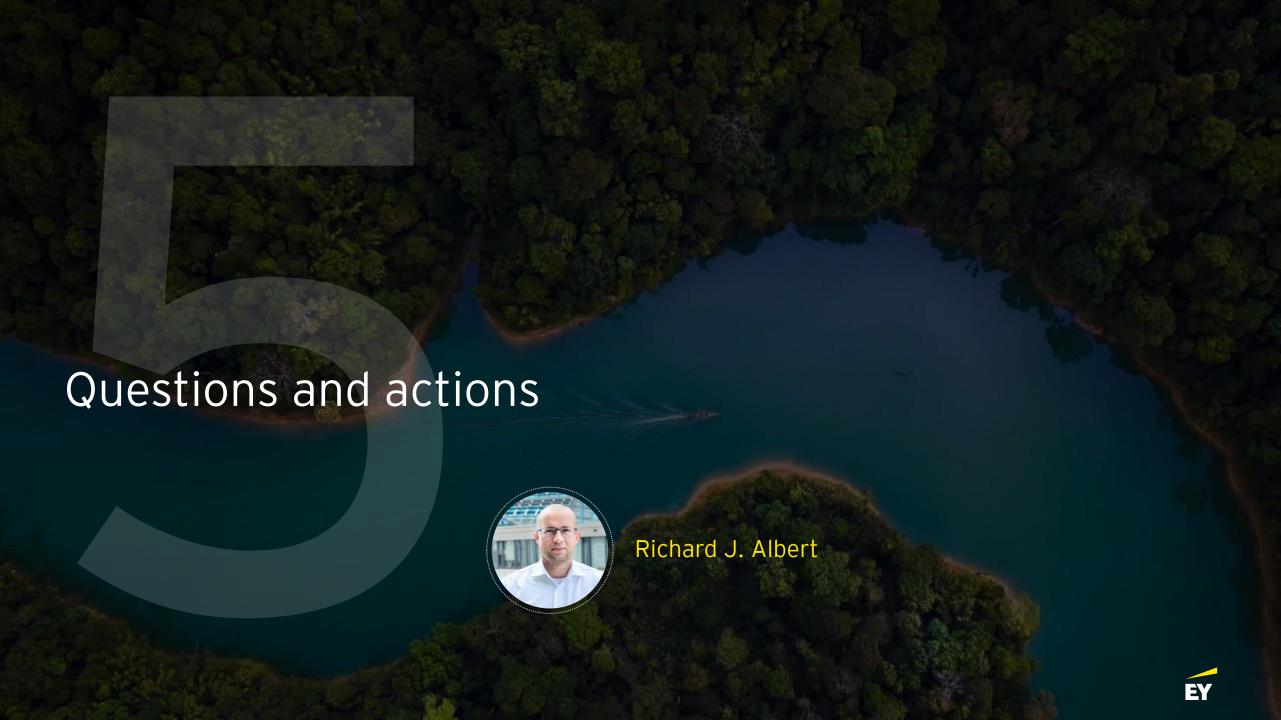
## **Background**

- Client is major producer of primary aluminum and complex aluminum goods in South Africa
- EU is a major market for both primary aluminum and complex aluminum goods
- Embedded emissions of aluminum manufacturing are significant because the South African national grid is based on coal-fired power
- Management is concerned that CBAM will significantly reduce competitiveness of their products

## Key challenges

- Regional carbon pricing mechanism will be taken into consideration, but it is expected to be immaterial in comparison with EU carbon prices
- Will reduce competitiveness of South African companies
- Need to reduce embedded emissions of aluminum manufacturing plant





## Questions to consider

- What are the levels of awareness of CBAM in the business?
- Was (no) impact of CBAM validated?
- Have key stakeholders been identified and involved?
- What are pros and cons of assigning CBAM responsibility to a particular business function?
- What is the potential impact considering default and actual values?
- What insights can be provided by scenario modeling?
- Which goods and entities are in scope of CBAM?
- Is data (customs and emissions) readily available?
- How are transaction flows impacted?
- Are systems and processes set up for reporting?
- Are functions aligned and clear of roles and responsibilities?
- Is there change needed to contractual arrangements?





## Beyond | Broader supply chain transformation elements

Compliance is not the end goal, but the start. Here are some potential aspects to be considered beyond compliance.



# Implement sustainable reporting processes

Support with documentation, process implementation and people upskilling



#### Scenario modeling

- What if you change a supplier?
- What if the emission prices change?
- What if the embedded emissions change?

Scenario modeling: Provide insights to help you make informed decisions



#### Supplier review

- Which suppliers do you have right now?
- How much do they contribute to overall emissions?
- What are the contractual terms?

Supplier review: Analyze suppliers to identify potential opportunities



## Customs process optimization

Assessment of status quo of customs processes across the organization, identification of optimization potential and implementation



optimization

- What is shipped from where?
- Where will it be used at the end?

Supply chain optimization: Identify potential opportunities e.g., customs procedures

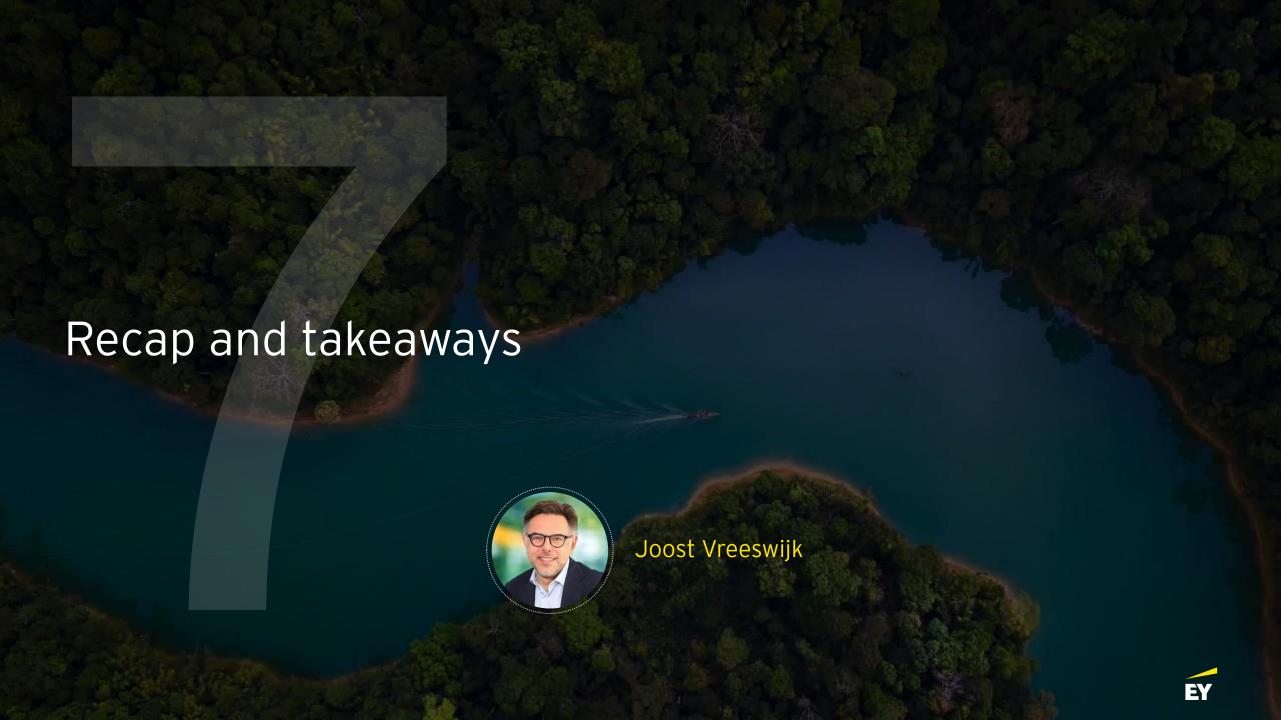


#### Strategy planning

Aligning strategies of different functions, e.g., global trade, supply chain, procurement and sustainability, helps to ensure that potential opportunities are explored and risks are properly managed







## Approach | From understand to transform

#### Understanding of CBAM

What | Align understanding of operating model and ERP/IT systems, create understanding of CBAM across relevant business functions

How | Kick-off call and workshop, including materials to be provided afterwards to relevant stakeholders

#### Scan for CBAM covered products

What | Identification and availability of relevant data for CBAM purposes, scan for CBAM covered products in portfolio How | Request for information followed by analysis

#### **CBAM** impact assessment

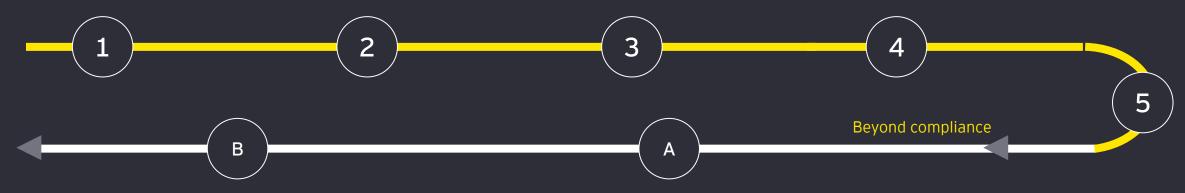
What | Impact assessment and analytics based on CO<sub>2</sub> benchmarks values and company's CO<sub>2</sub> data; evaluate materiality and identify potential transformation opportunities

How | Calculation of the expected CBAM cost

#### **CBAM** reporting assessment

What | Evaluation of the level of readiness for CBAM reporting

How | Evaluate if processes for the transitional phase are set up, data is prepared, and functions are aligned; identify gaps and build high-level roadmap for compliance readiness



#### Beyond: Strategic transformation

What | Assess the underlying opportunity in terms of reducing the overall carbon footprint

How | Review key drivers for carbon emissions – consider changes in supply base, supply chain footprint, logistics flows, bill of material, business model in general

#### Beyond: Operate

What | Run as managed service or support development of internal processes and capability

**How** | Identify requirements, design, customize and implement solution

#### **CBAM** reporting readiness

What | Set-up compliance processes and prepare ongoing CBAM compliance

How | Implement reporting processes, support with documentation and implementation of new processes and upskilling of people



## Key steps and takeaways

- Determine who is addressing CBAM compliance requirements a cross functional approach is essential
- Review EU import footprint and potential (cost and process) impacts considering CBAM scope
- Prepare to comply under the transition reporting requirements

Could CBAM be a trigger to accelerate decarbonization efforts? Consider broader supply chain transformation elements such as supplier reviews, customs and procurement optimization, or changing product flows



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