





Pathways to a sustainable future; governance of CO2 removal & mitigation strategies for industry The case of the Chilean steel industry

December 11th, 2019

OUR APPROACH TO THE CLIMATE CHANGE CHALLENGE





We **measure** the climaterelated risks that influence investments and projects



Opportunity

We formulate **business models** and deliver **policy guidance**, to accelerate climate change adaptation and mitigation actions





Financing

We **enable** the mobilization of financial resources to promote sustainable investiments

OUR CLIENTS

































MITIGATION STRATEGIES IN THE INDUSTRY

Our work for Fundación
Bariloche and GIZ: Analysis
of climate change
technology needs for the
Steel sector in Chile







CLIMATE CONTEXT





Among the risks linked to climate change, there are risks associated with a **transition to a low-carbon economy**.

Some of these risks can be **new environmental regulations** aligned with reaching the commitments declared in the Paris Agreement, or even facing **market shifts** linked to consumers being more sensitive to the climate crisis.





The **steel** industry is a **highly vulnerable sector** to transition risks, due to its high level of GHG emissions with respect to the value of its product and its exposure to international trade.

How to Assess the sector in the transition to

low carbon economy



Setting goals and a decarbonization pathway on a scientific basis.



Designing adequate investment plans and roadmaps to access funding.

Baseline

Goals

Technology Assessment

Investment plan

Identifying barriers, the most emissionintensive processes, and technological gaps.



Establishing which technologies are most cost-effective and viable for reaching the decarbonization goals.

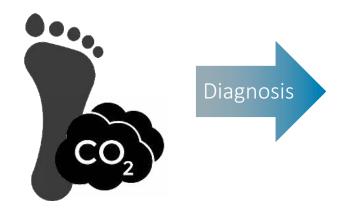


Setting ambitious targets

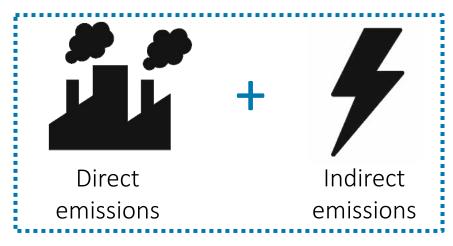


Transition to a low carbon development

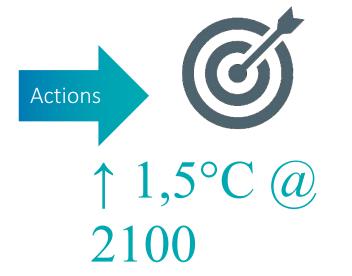
Current emissions



Mitigation pathway



Objective



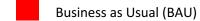
Consistent with science

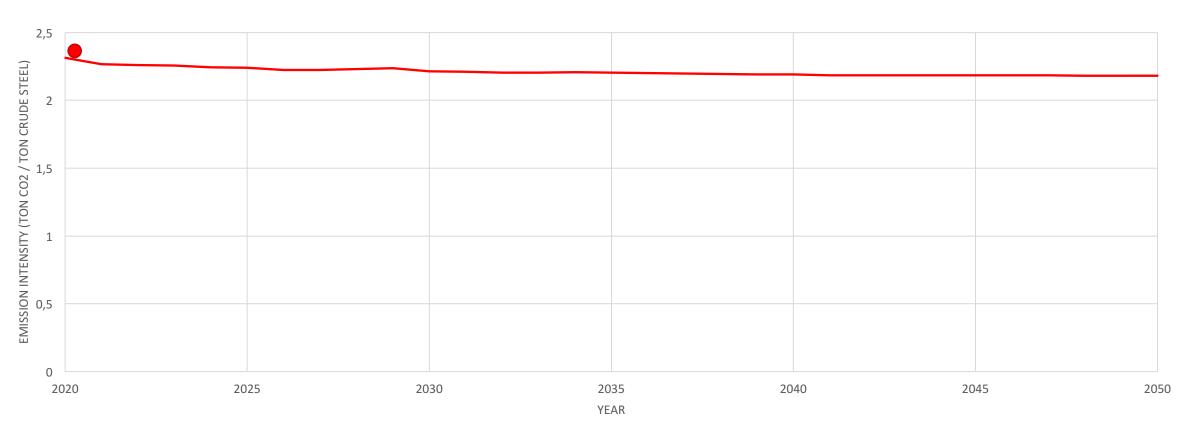




Steelmaking: highly intensive in direct emissions*

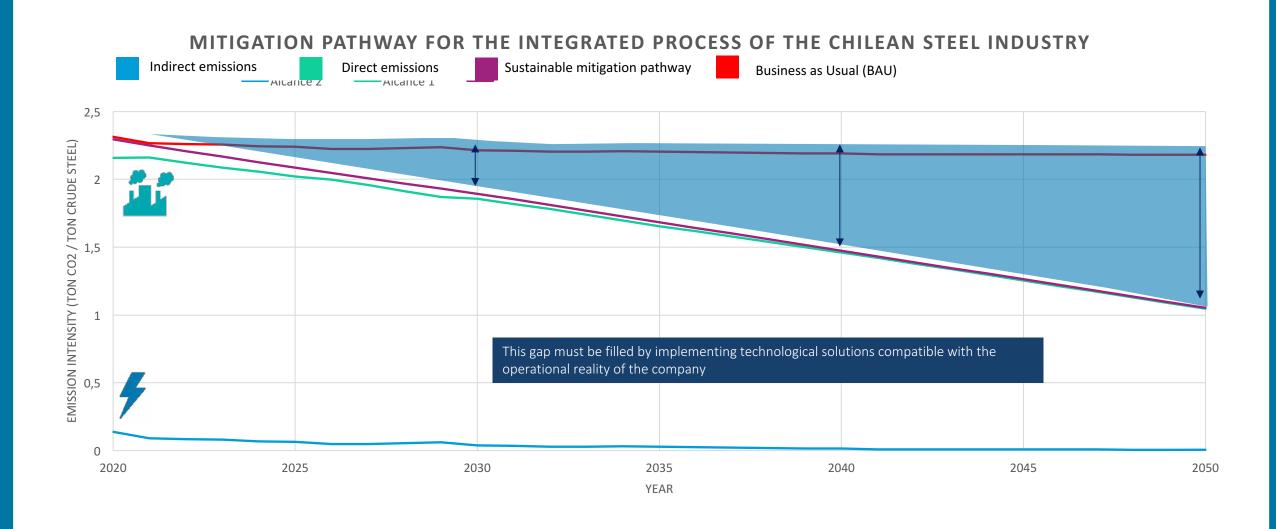
MITIGATION PATHWAY FOR THE INTEGRATED PROCESS OF THE CHILEAN STEEL INDUSTRY



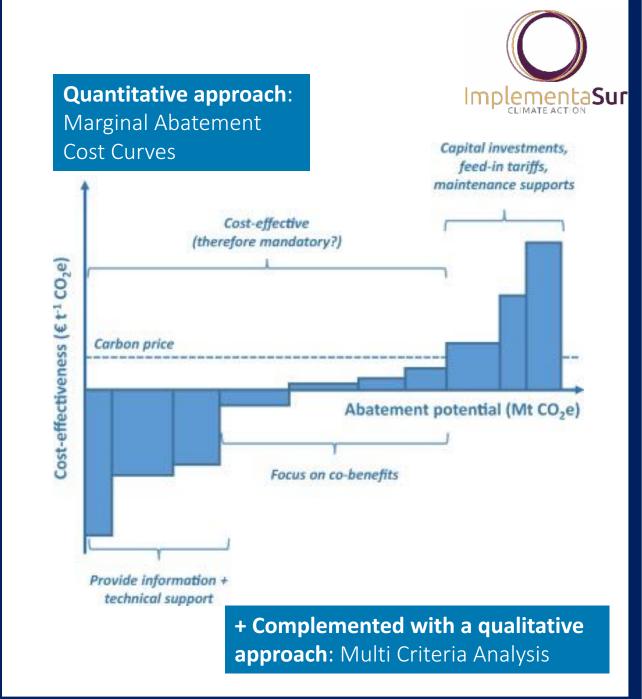


*considering the integrated process, which corresponds to producing Steel from iron ore.

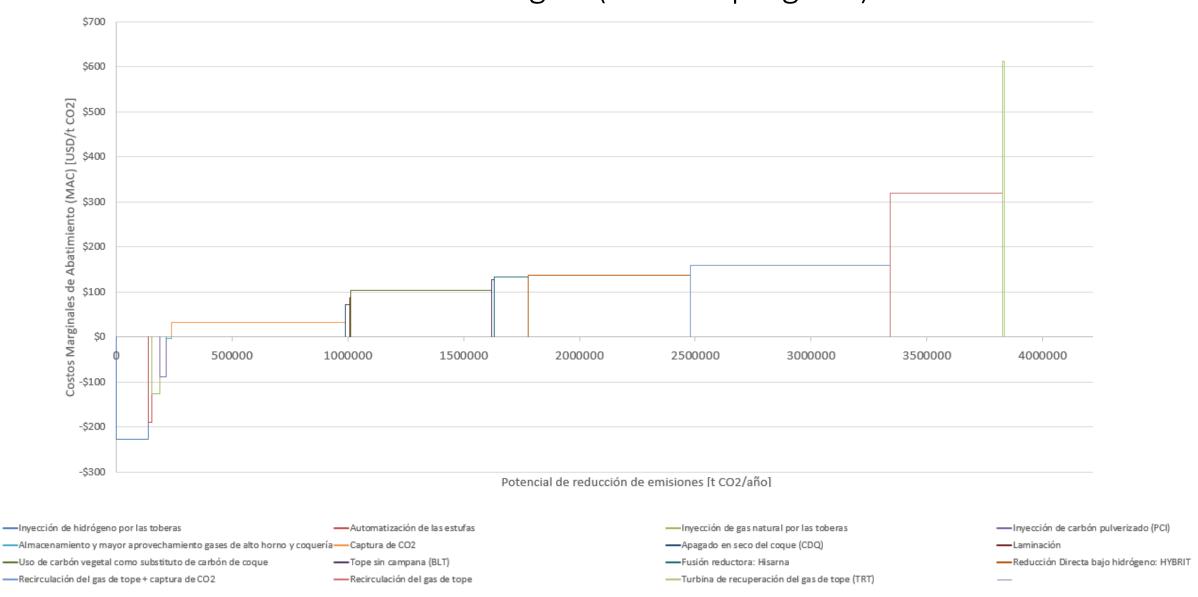
Steelmaking: highly intensive in direct emissions



How to pursue and reach the mitigation pathway objectives?



Marginal Abatement Cost Curve (MACC) for GHG mitigation technologies (work-in-progress)



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