



ArcelorMittal

# Eurofer Workshop on role of ETS Innovation Fund : inputs from ArcelorMittal

4 June 2019 – Eurofer, ESTEP

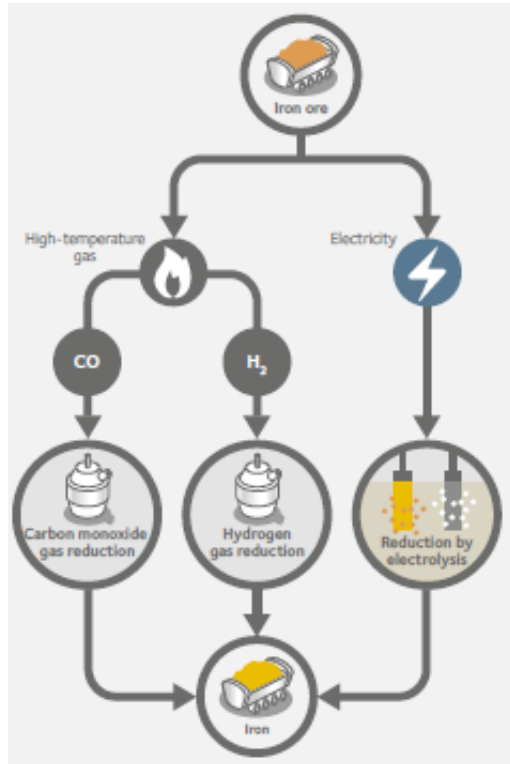
# ArcelorMittal has published its first Carbon Report



- “Our ambition is to significantly reduce our CO2 emissions by 2050 and, in Europe, to achieve carbon neutrality by this date, in line with the objectives of the Paris Agreement and the science-based trajectory for our sector”

Technology Roadmap for each steel plant requires an adequate mix of 3 axis to reduce Iron Ore to Iron in a carbon neutral way :  
Circular Carbon (CCU), CCS and use of clean power.

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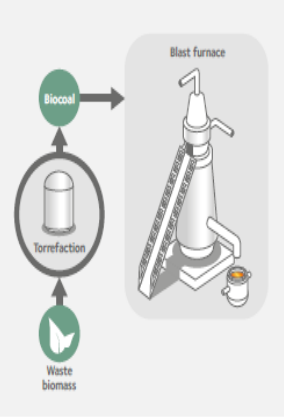


ArcelorMittal is currently already running a number of pilot and demonstration projects in order to increase the TRL of the required technologies



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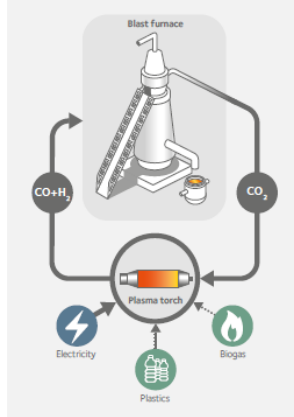
ETS Innovation Fund will be key to realize the step to bring the technology to TRL8/9 : further scale up the technology to full industrial scale while derisking the technology.



Adapt solid carbon waste streams for ironmaking

TRL 7/8

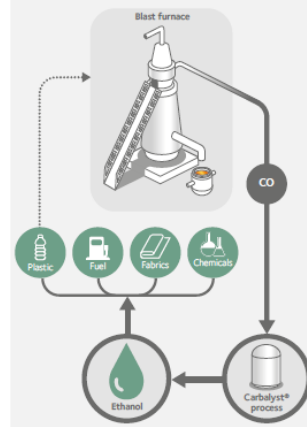
Torero



Re-activate CO2 into syngas with renewable energy and waste streams

TRL 5/6

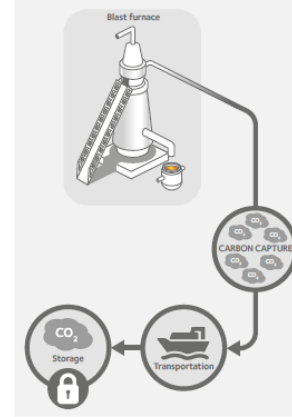
IGAR



Capture and reuse waste gaseous carbon into all kind of hydro-carbon products

TRL 7/8

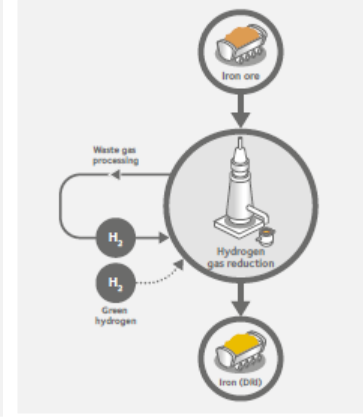
Steelanol



Capture, clean and prepare gaseous CO2 for transport/storage by use of waste heat

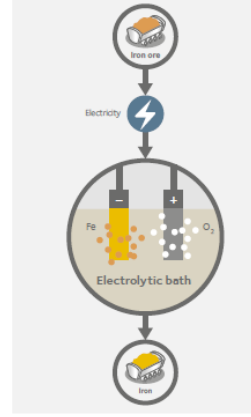
TRL 6/7

Carbon2Value



Demonstration production + melting of carbon free DRI with Hydrogen at industrial scale

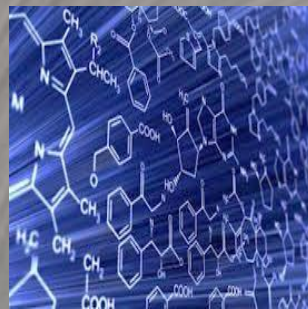
TRL 6/7  
Hydrogen  
Hamburg



Direct Electrolytic Iron winning

TRL 4/5

SIDERWIN



**Inspiration through collaboration**

Thanks for your attention  
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