



The Latin America Steel Market: an Overview - private and public- private iron and steel development initiatives

FRANCISCO LEAL

Experts' Dialogue on Effecting the Sustainable Transition of
Iron and Steel – Paris march 2019



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Experts' Dialogue on Effecting the Sustainable Transition of Iron and Steel - A Latin America overview

- ALACERO
- Routes of Latin America Steel Production (2018)
- Mainly Crude Steel production (2018)
- Best Practices (BR, MX, AR)
- Contacts

About Alacero



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**To be the Latin American of
the steel industry**

Alacero – is the organization that brings together the Steel Value Chain of Latin America to promote the values of regional integration, technological innovation, corporate responsibility and social and environmental sustainability.

About ALACERO

65 MM TONS
OF CRUDE STEEL
PRODUCTION
(2018)

54 MM TONS
OF FINISHED
STEEL
PRODUCTION
(2018)

60
YEARS IN
ACTIVITY

53
MEMBERS

19
COUNTRIES

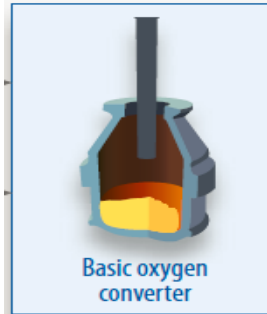
~ 90 %
OF THE LATIN
AMERICA
PRODUCTION



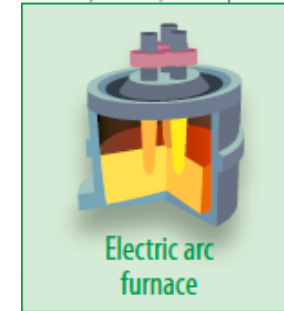
Latin America Steel Production (2018)



87 Iron and
Steel Plants



35,4 million
tonnes of
steel/year



29,7 million
tonnes of
steel/year

Production	Latin America	World
BOF	54,4%	71,5%
EAF	45,6%	28,0%
Source:	Alacero	Worldsteel

Mainly crude steel production (2018)

- Total of Crude Steel production = 65 million of tons



Argentina



Brasil



México

Production

5,2

34,7

20,2

% of total Latin
América production

8,0%

53,4%

31,0%

Initiatives



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Carbon footprint monitoring

1. **ALACERO** has started to map the carbon footprint in our countries.
 - Methodology is based using information plant by plant of the ones that reports their CO2 emissions to Worldsteel.

2. We already have:



Argentina



México

3. Next steps:



Brasil



Chile



Colombia



Ecuador



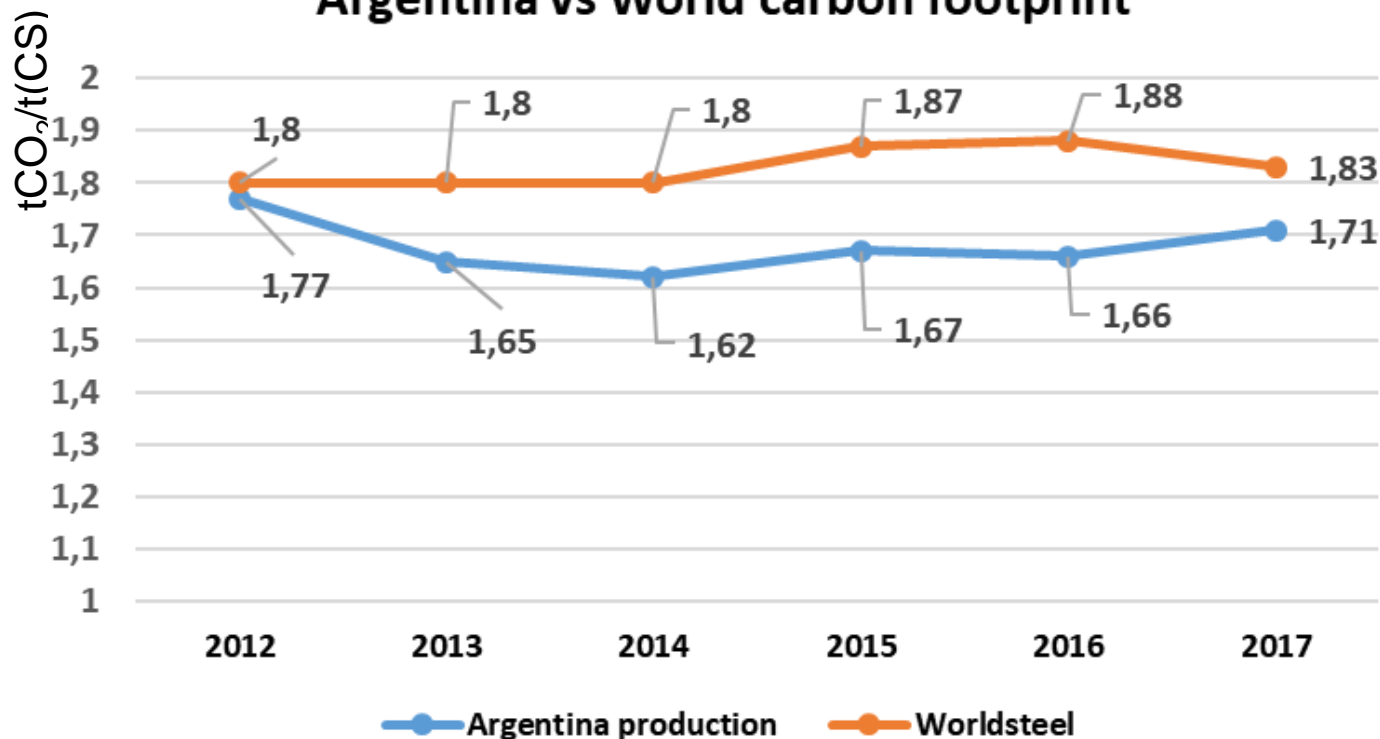
Perú



Rep.
Dominicana



Argentina vs World carbon footprint

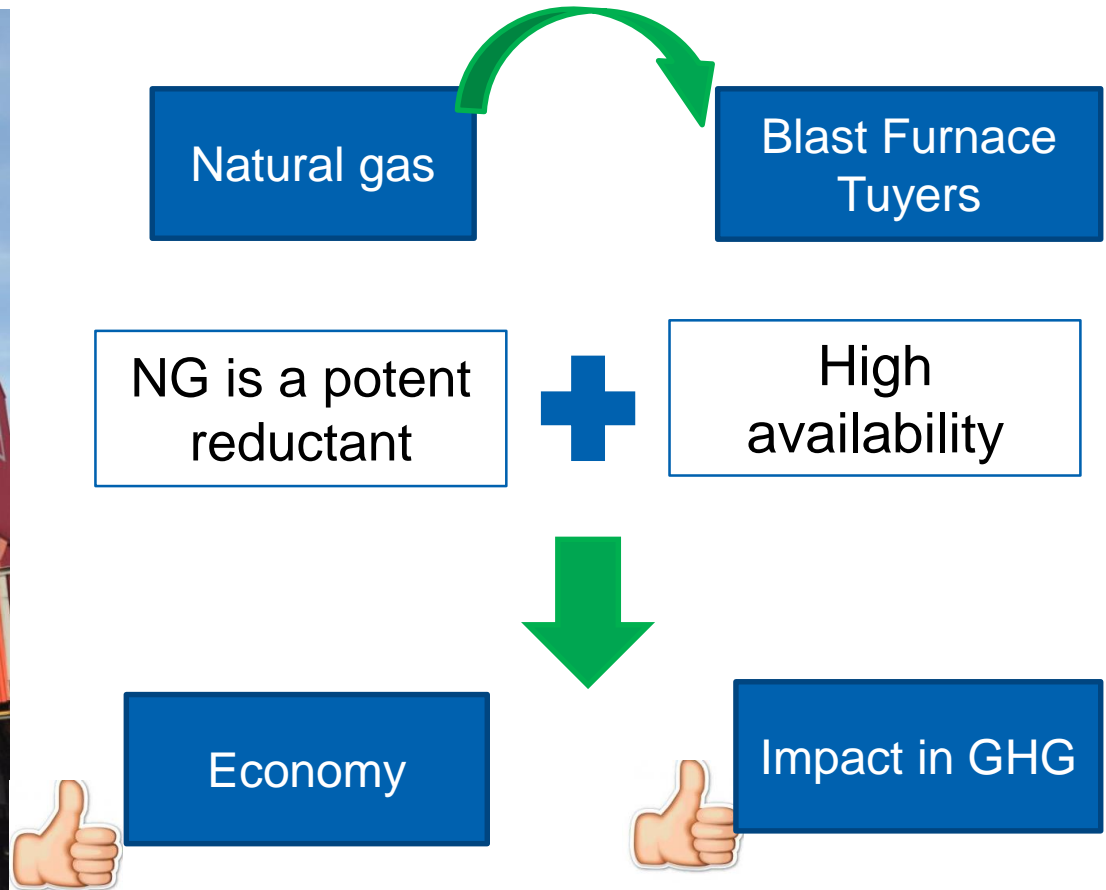


Average 2012-2017: 1,68 ton de CO₂/ton de CS.

This data is based on BOF, EAF and RD calculating emissions by weight of steel produced in based on main routes (each one).

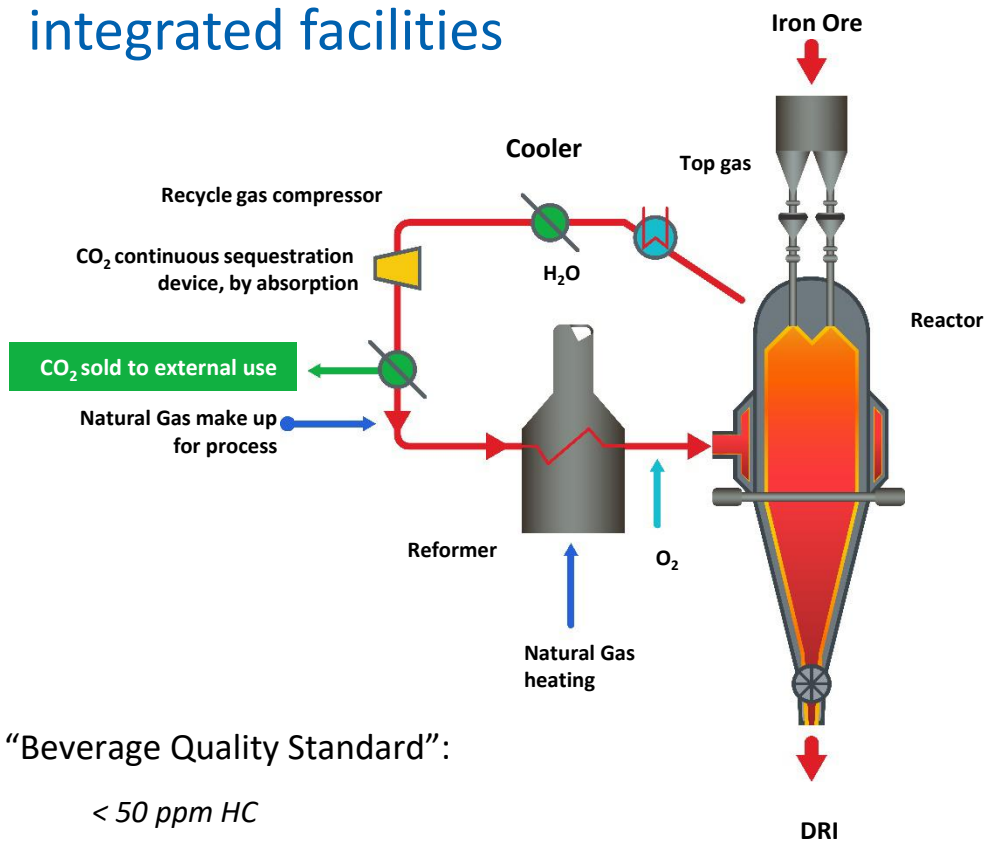


NG injection in BF Planta Savio Argentina



1 Mt CO2 were avoided in the past 10 years

CCU for the beverage industry - Puebla and Guerrero integrated facilities

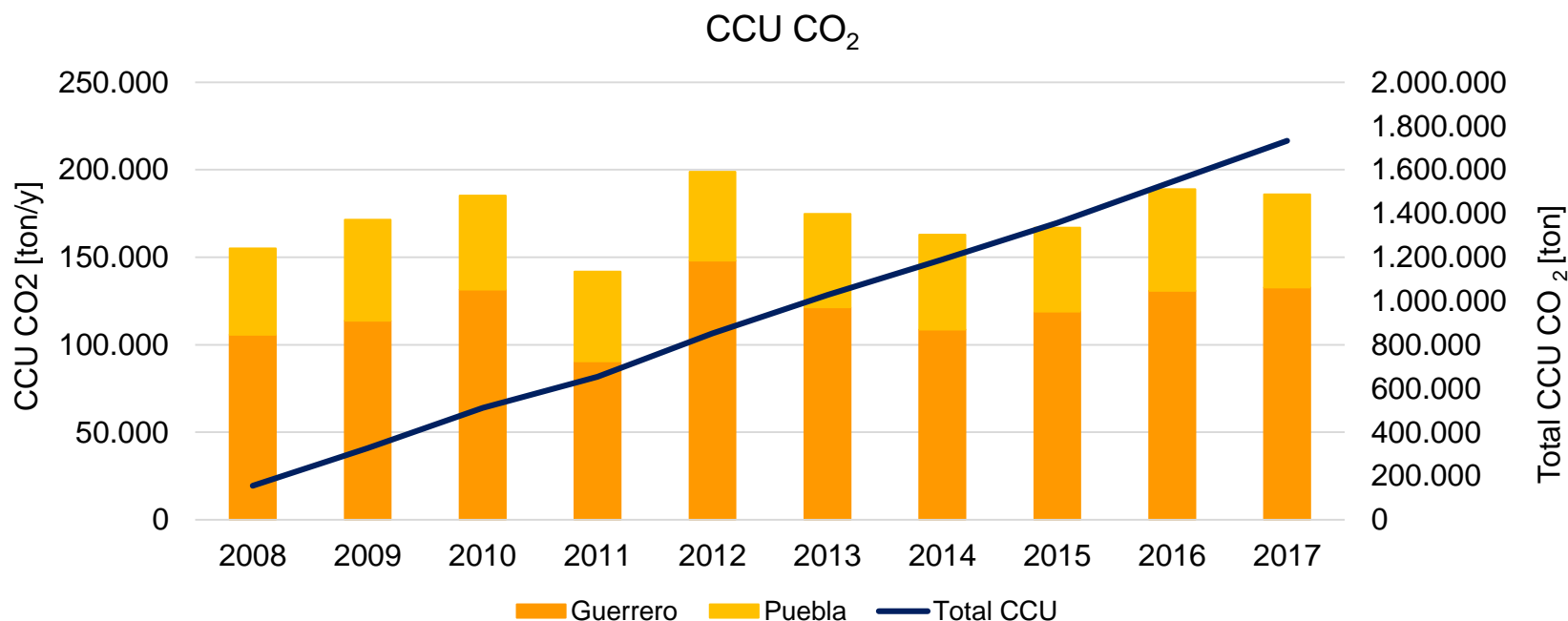


“Beverage Quality Standard”:

- < 50 ppm HC
- < 0,1 ppm H₂S
- < 20 ppm Moist

So CO₂ is sold as a “by – product”

~ 1.7M tCO₂ recovered in past 10 years Puebla and Guerrero integrated facilities - MEXICO



2017	Units	Puebla	Guerrero	Total
CO ₂ Emissions	ton	1.116.020	2.863.812	3.979.832
CO ₂ Specific Emissions	kg CO ₂ /ton cs	1.269	1.208	1.224
CO ₂ Sold to external use	ton	53.316	132.644	185.960
%CO ₂ Sold to external use	%	4,8%	4,6%	4,7%



- 10 sites that use **charcoal** to produce steel
- **Steelmaking capacity: ~ 4,160 million tons / year**
- **2012: Charcoal Sustainability Protocol:**
 - Legislation about sustainability compliance
 - Make business only with responsible partners
 - 4 years of full supply of forest stocks to the respective production accordance with the legal requirements
 - Technology for capturing and burning the gases from the charcoal production



INSTITUTO
AÇO BRASIL

50 anos

Protocolo de
Sustentabilidade
do Carvão Vegetal

Rio de Janeiro, 8 de maio de 2013

Available: <http://www.acobrasil.org.br/site/portugues/sustentabilidade/downloads/resultados-protocolo.pdf>



1. El Mutun – Bolivia

o | www.lostiempos.com/actualidad/economia/20190204/planta-del-mutun-debera-producir-acero-calidad

Los Tiempos

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Planta del Mutún deberá producir acero de “calidad A”

Economía



Los trabajos que se realizan en El Mutún para avanzar con el proyecto de extracción de hierro. | Foto archivo | EL DEBER

Lo más leído

- 1 Hallan el cuerpo de un rescatista perdido en diciembre de 2018
- 2 Hallan el cuerpo del rescatista desaparecido en diciembre en el trópico
- 3 Habilitan vuelos solidarios entre Cercado y Chimoré
- 4 Estudiante desarrolla un avión no tripulado
- 5 Padres acusan a una directora de encubrir a un profesor denunciado por abuso sexual

Últimas Noticias

16h54m
Zapatos, el producto que más compra la gente con el 15% del doble aguinaldo

16h21m

Certified ISO 50.001 in Latin América



Ternium – Planta Rio de Janeiro –
Brasil

CAP – Planta Magnetita – Chile

Vallourec – Usina Barreiro – Brasil

CAP Acero - Chile



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**THANK YOU FOR
YOUR ATTENTION !**

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