

2.3 8FBA vs. Chinese BFA: SUSTAINABILITY



8FBA
ENERGY
EFFICIENCY

Increase energy efficiency
per unit of production

+11%



2.3 8FBA vs. Chinese BFA: SUSTAINABILITY



Estimation based on:
- Data from Chinese BFA producers
- Carbon intensity of power generation in China, 2021 = 542.9 g CO₂/kWh
- Inclusion of sea transport of BFA from China to Spain



8FBA
EMISSIONS
REDUCTION

Reduction of carbon footprint
per unit of production

-50% ⇔ -69%



2.3 8FBA vs. Chinese BFA: SUSTAINABILITY

Since the performance level meets the required standards:

Durability (castables for blast furnace runners)

Corrosion resistance (AMC bricks)

**8FBA-based
REFRACTORIES**
Reduction of density
FBA competitive price



↓ **specific consumption
of refractories per unit
of production**



**potential economic
advantage for refractory
producers**

2.3 8FBA vs. BFA: SUSTAINABILITY

8FBA is a **more sustainable choice** for **producers
of high-alumina refractories** and **end-user
industries** in terms of:



**EMISSIONS
REDUCTION**

Carbon footprint reduction of
high-alumina refractory products
based on **8FBA** (vs. Chinese BFA)
(net-zero emissions challenge)



**CIRCULAR
ECONOMY**

Lower material specific consumption
(↓ waste) for comparable performance
of refractory solutions based on **8FBA**
(circularity challenge)