



**Flex4Fact:**  
**Unlocking Energy Flexibility for a  
Competitive and Sustainable  
European Steel Industry**

Irene García  
Innovation Department  
CELSA GROUP

## **ENERGY INTENSIVE INDUSTRIES CHALLENGE**

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**How to remain competitive  
while reducing  
environmental impact?**

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## City of 2.5 million inhabitants

The consumption of 9,500  
GWh per year of electricity



Transforming today. Strengthening tomorrow.

# FLEX 4 FACT



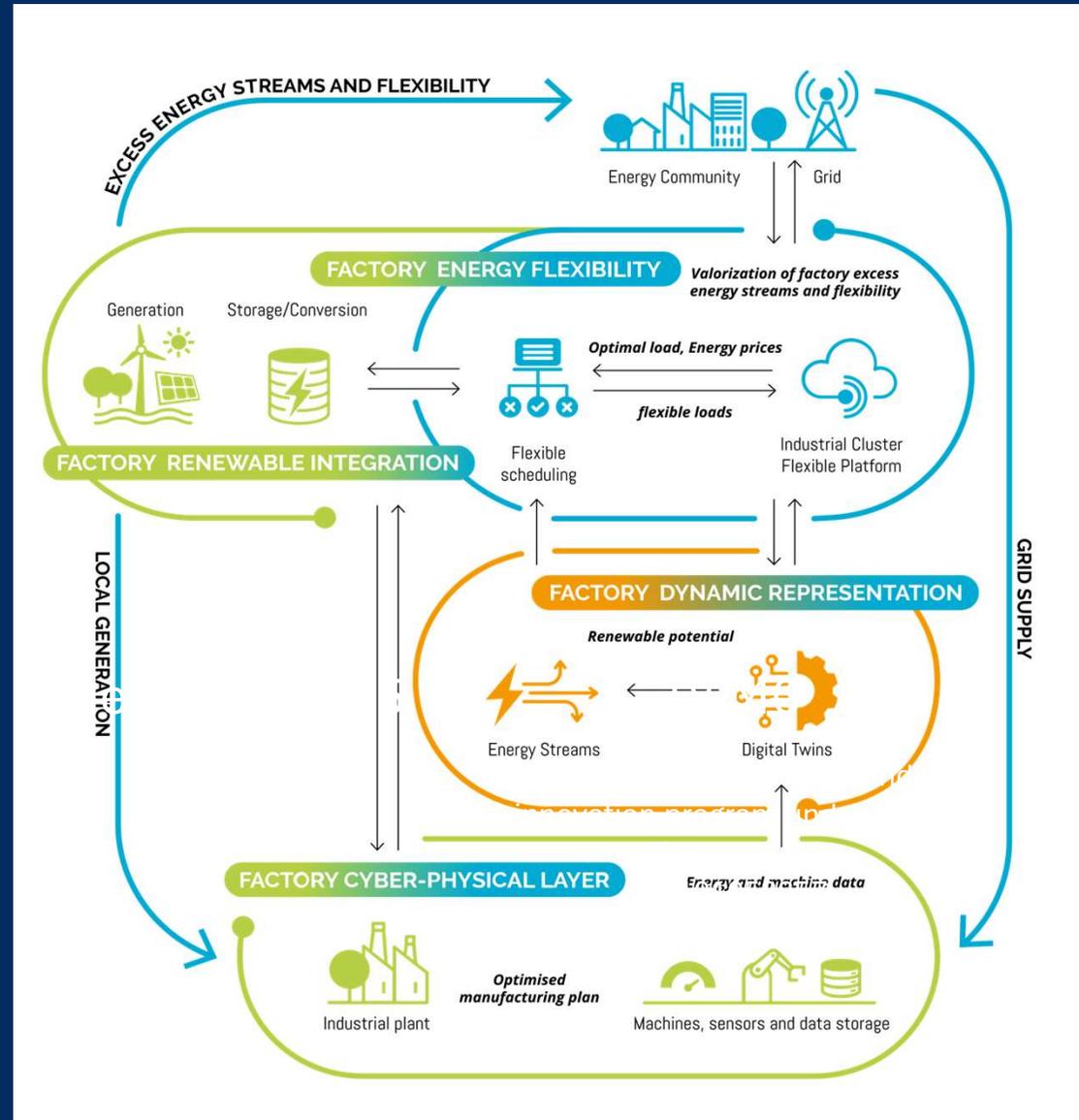
23 partners  
(5 industries)



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Digitalisation unlocks green steel's full potential by boosting flexibility in production and workforce



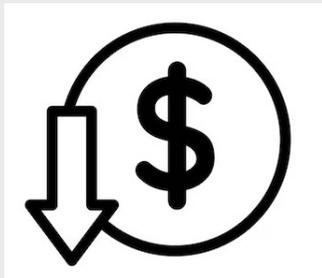


## Scheduling Tool for EAF

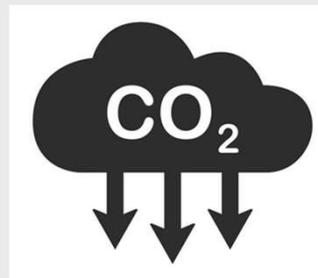
*Considering:*

- Energy market forecasts
- Operational constraints
- Flexibility windows, which identify when EAF operations can be shifted or paused to avoid peak demand or participate in demand-response mechanisms, such as SRAD.

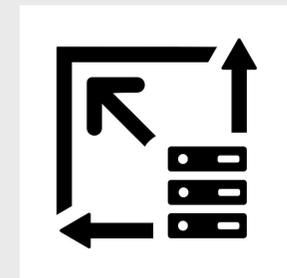
# IMPACT



Decrease in  
electricity cost



Reduction in  
CO<sub>2</sub> emissions



Transferability to  
other EILs

# More projects about flexibility



[www.twinghy.eu](http://www.twinghy.eu)





CELSA

Thank you!

Irene García  
Innovation Department  
CELSA GROUP

[Irene.garcia4@gcelsa.com](mailto:Irene.garcia4@gcelsa.com)