

The challenge of water circularity in ArcelorMittal

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ArcelorMittal

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Agencia de Ciencia, Competitividad Empresarial
e Innovación del Principado de Asturias

Uses of water in Steel Industry

ArcelorMittal Spain means 24% of total water consumption in Asturias and 72% of industrial one

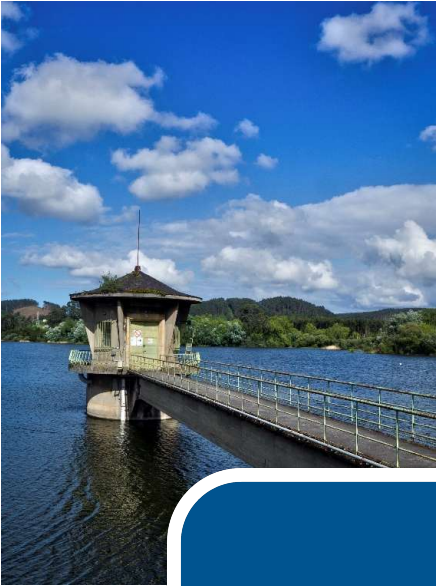


- 💧 Preparation and handling of raw materials
- 💧 Cooling of furnaces and industrial facilities
- 💧 Quenching of coke and slags
- 💧 Cleaning of process gases
- 💧 Scale removal
- 💧 Pre-degreasing baths, cleaning, emulsions...
- 💧 Watering and cleaning of roads



Water supply network

La Granda



- Located in Gozón
- Built in 1956
- 3 Hm³ of capacity
- Embankment dam



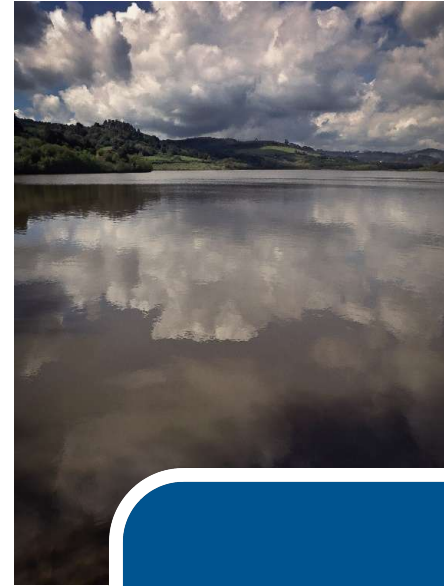
Trasona



- Located in Corvera
- Built in 1957
- 4 Hm³ of capacity
- Gravity dam



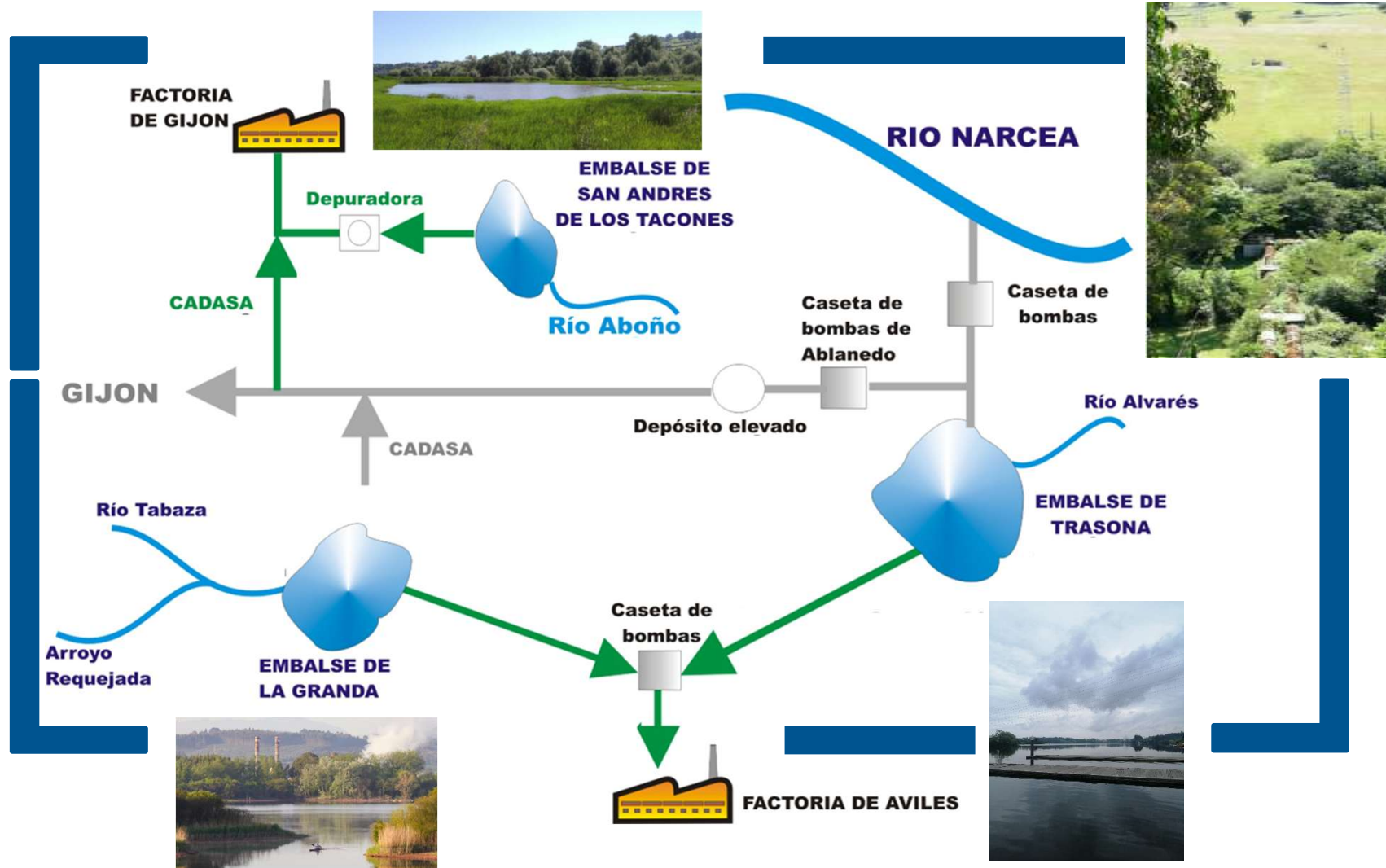
San Andrés



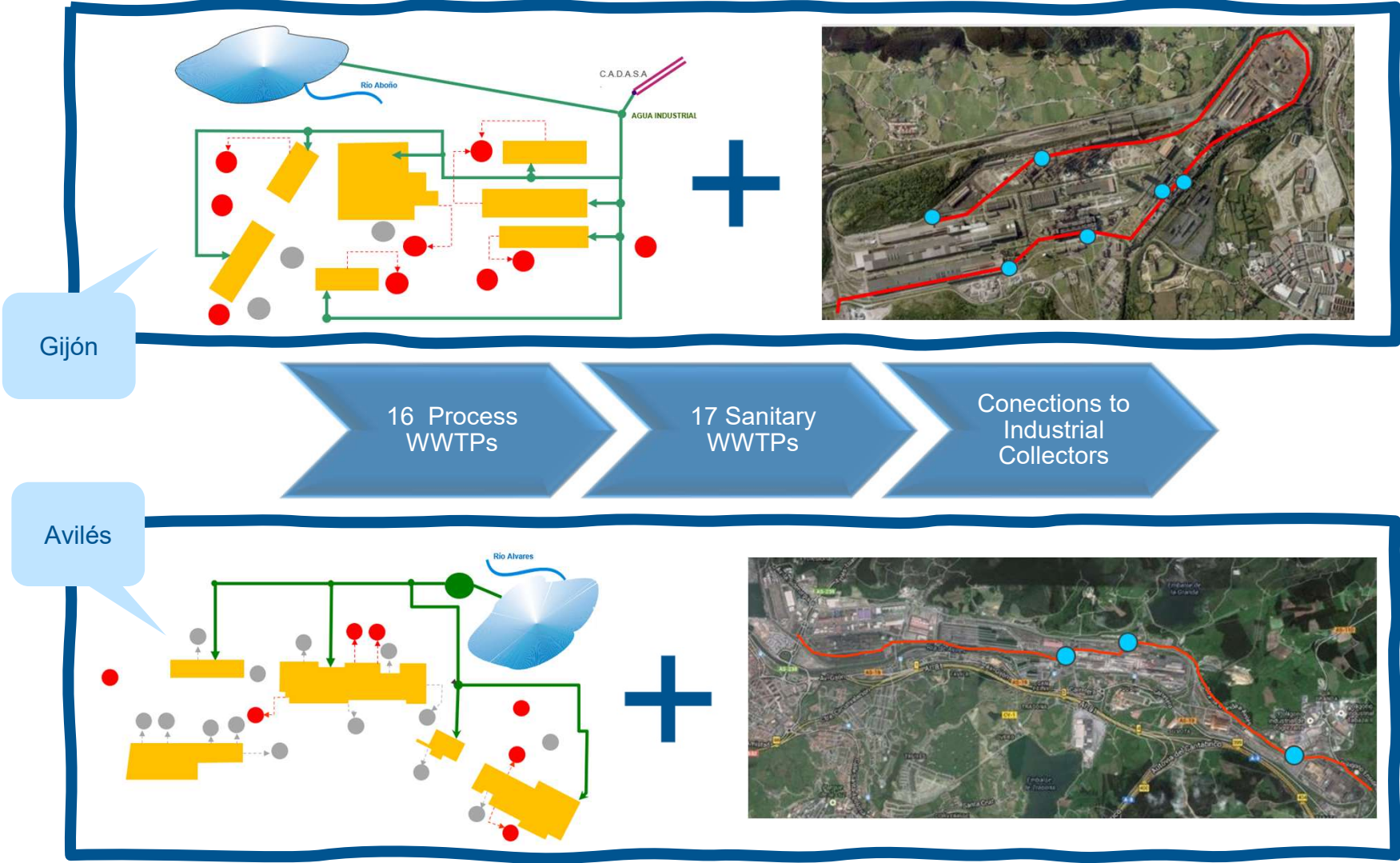
- Located in Gijón
- Built in 1970
- 4 Hm³ of capacity
- Embankment dam

San Andres, La Granda and Trasona dam were considered in 2002 as special protection areas for birds according Directive 79/409/EEC

Water supply network



Water treatment cycle



Some examples



Gijón Circular Water Project

Action

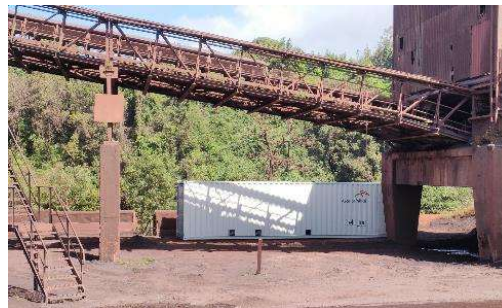
Collection, treatment and reuse of rain & run off waters in Gijón site.

Study

Pilot Plant working along 4 months: 70 essays with yields above 80 %

Target

Reuse of 1,3-1,7 Hm³ as supply water in Gijón site



Strong synergy with Reclaimed Water for Industry Project from the Principality of Asturias

Our saving plan



ArcelorMittal plans to **reduce the supply water consumption** by more than **6 Hm³**, based on three pillars:

Storage capacity (2 Hm³)

Gijón Circular Water Project (1,3-1,7 Hm³)

Changes in production process (2,8 Hm³)

FOLLOWING STEPS: New water circulary projects

Thanks for your attention



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