

Group Operations - Highlights



UK

Speciality Steels

Lochaber Smelter

Liberty Engineering Group

Marble Power

Uskmouth coal conversion

Glenshero 168MW Wind Project

USA

Georgetown

Keystone Steel & Wire

Johnstown Wire

Continental Europe

Aluminium Dunkerque

Chateauroux wheel plant

Ostrava, Czech Republic

Galați, Romania

Skopje, North Macedonia

Piombino, Italy

Dudelange, Luxembourg

Liege, Belgium



Australia

OneSteel

Zen Energy

280MW PV @ Whyalla

Operational loads – Electric Arc Furnaces



EAFs recycle scrap steel back to useful product

Peak loads at Rotherham 200MW, instantaneous swings up to 100MW

Flexibility strategies pursued:

- Capacity Market
- Dynamic Frequency Response
- Static FR
- Imbalance / BM



Operational loads – Aluminium Smelter



**80MW hydro plant connected to 24km of tunnels,
commissioned in 1929**

**10MW export/50MW import capacity being
expanded to 80MW export/59MW import**

Flexibility strategies assessed:

- Capacity Market
- Static Frequency Response
- Dynamic Frequency Response
- Balancing Mechanism



Renewable generation development

