Sustainably superior –
ductile iron pipe systems

- **economically superior**
- **environmentally superior**
- **technical superior**

Resources can be saved for present and future generations!

Sustainably superior –
ductile iron pipe systems

Economically superior

– push-in joints make for highly productive installation	▶ reduces labour costs
– no welding needed	▶ reduces labour costs
– installation in all weathers	▶ reduces labour costs
– sand bedding often not required	▶ reduces materials and logistics costs
– concrete thrust blocks not needed when joints are restrained	▶ reduces materials and labour costs
– joints can be deflected angularly	▶ saves on fittings
– wide range of fittings and valves available so no need for specials	▶ reduces materials and labour costs
– extremely low damage rates	▶ reduces repair and maintenance costs
– operating life of up to 100 years or more	▶ keeps renovation budgets to a minimum

Investing in ductile iron pipe system pays for itself in low installation and operating costs with, at the same time, a long operating life!

Sustainably superior –
ductile iron pipe systems

Environmentally superior

- impermeability to diffusion
- linings
- scrap as the raw material
- ductile iron
- low expenditure on maintenance and repairs, and long operating life

- ▶ safeguards drinking water in all soil and installation conditions and the groundwater when sewage is being transported
- ▶ ensure that drinking water is transported hygienically and environmentally safely
- ▶ minimises the consumption of primary and fossil raw materials
- ▶ is recycled so saves resources for present and future generations
- ▶ minimises CO_2 emissions and the consumption of resources

Ductile iron pipe systems can be shown to produce true sustainability!

Sustainably superior –
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Technically superior

- the material is strong
- external protection
- static load-bearing capacity

- joints
- ductile iron
- installation
- restrained joints

- the material has superior properties

▶ allows operating pressures up to 100 bars
▶ shields against mechanical and chemical attack
▶ allows very high stresses in the transverse and longitudinal directions

▶ are resistant to the penetration of roots
▶ is non-combustible
▶ is possible with no special equipment
▶ withstand very high tractive forces and are therefore ideal for trenchless installation
▶ which allow special applications in mountainous regions and for fire-fighting pipelines, snow-making systems and hydroelectric power stations

The technical performance of ductile iron pipe systems ensures the highest safety and reliability in all areas of the water industry!

Sustainably superior – ductile iron pipe systems

- With its outstanding technical performance, *safety and reliability*, and *sustainably* quantifiable advantages, ductile iron makes a convincing case for itself in the water industry.

- With its *environmental properties* and its *extraordinary durability*, ductile iron is the only material in the water industry that provides *demonstrably real sustainability*.

Resources can be saved for present and future generations!