

# DIPRA Facts & Figures

## Environmental Benefits of Ductile Iron Pipe

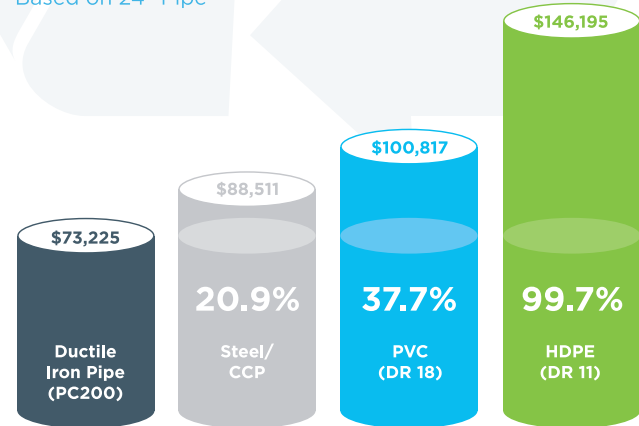
A century ago, dedicated American engineers installed iron pipe to create the country's water systems. This strong, safe, and reliable product has stood the test of time. Modern Ductile Iron Pipe is made to last at least 100 years, and is an environmentally preferable product, both in its recycled content and its own recyclability.

### Environmental benefits include:

- Ductile Iron Pipe is manufactured from recycled iron and steel scrap, whereas PVC pipe is made from petrochemicals that have proven to be harmful to the environment and human health.
- Having as much as 98% recycled content, Ductile Iron Pipe is itself a 100% recyclable material, and decades of extensive use have demonstrated it presents no adverse health risks.
- Increased flow capacity with Ductile Iron Pipe leads to lower pumping costs and significant energy savings. In fact, pumping through Ductile Iron Pipe instead of PVC can result in as much as a 38% savings in energy consumption.
- These energy savings also translate into less CO<sub>2</sub> production, reducing carbon dioxide emissions.
- Ductile Iron Pipe is not prone to permeation and the resulting contamination of drinking water that might result, whereas plastic pipe is susceptible to permeation that can damage the pipe and contaminate the water. In fact, in a study prepared for the EPA, plastic pipe was involved in 98% of permeation incidents.
- Ductile Iron Pipe does not leach toxic chemicals into drinking water.

## Annual Water Pumping Costs

Based on 24" Pipe



For details about the benefits of Ductile Iron Pipe or the Ductile Iron Pipe Research Association visit [www.dipra.org](http://www.dipra.org)



**Strength** and **Durability** for **Life**®

