

### Pipe inside diameter key to energy efficiency

Points of interest:

1. Ductile Iron Pipe typically has a larger inside diameter compared to other pipe materials for a given nominal size resulting in lower headloss.
2. A lower headloss reduces the amount of energy required to pump through a system.
3. Less energy required results in monetary savings for utilities as well as reducing their carbon footprint.
4. Annual pumping cost savings from using Ductile Iron can potentially save utilities many millions of dollars of electrical costs over the life cycle of Ductile.
  - a. Based on Huntsville, Alabama's current water piping network they would save over \$17 million in pumping costs over 50 years using all Ductile Iron vs all PVC.

DIPRA Thoughts:

1. Very good explanation of what determines pumping costs and how Ductile can save utilities money.
2. Also good from environmental standpoint of how Ductile can reduce a utilities carbon footprint.