



Green Performance Pipe

What does it mean to be **green**? How does one strive for **sustainability** without compromising quality? At Performance Pipe, being **green** and **environmentally conscious** is what we do. From the feed stock selection to the manufacturing process, **sustainability** is deeply rooted in our core model and is taken into account throughout our entire business line. When selecting a piping material, careful consideration of performance, reliability, durability and long term cost effectiveness must be taken into perspective. Polyethylene (PE) has become one of the world's most widely used and recognized piping materials since it's discovery in 1933. Applications for PE pipe are broad, ranging across multiple industries. The advantages of PE are well known and have gained approval in accordance to national and world-wide AWWA, ASTM and NSF standards. With water promising to be the 21st century what oil was to the 20th century, PE is the safe and smart choice for today and many years to come. Below are selected features and benefits of PE and why it's the **green** piping material of choice:



Life Cycle Cost Savings

The combination of an extremely smooth inside surface and the exceptional flow characteristics of PE pipe is key to reducing total system operating cost for municipalities. Construction and installation costs are reduced compared to other piping material due to the flexibility and light-weight nature of the material. A leak free system reduces repair, operational and maintenance costs throughout the design life which is conservatively reported to be 50-100 years.

"We continually strive to make our operation more energy efficient. The benefits are two-fold: reduced greenhouse gas emission and lower production costs."



Leak Free and Fully Restrained Joints

The allowable water leakage for PE pipe is zero compared to greater than 10% for other piping products. For municipal applications, a fusion joint eliminates potential leakage points every 10 to 20 feet when using the bell and spigot type joints associated with other piping products. Leak free and fully restrain joints leads to a homogenous piping system in which the joint is as strong or stronger than the parent pipe itself.

"We strive to make optimal use of the resources we consume and minimize emission and waste. We use our Operational Excellence system to recognize and reduce the risk of our products throughout their lifecycles."



Environmentally Friendly

PE is a safe and environmentally friendly material that can be recycled without the emission of pollutants and toxic emissions. Without corrosion, biological growth or tuberculation of the pipe, PE's hydraulic efficiency reduces electric consumption from over running pumps. Less energy needed from pumps along with the leak free nature due to the fusion process leads to cost savings on rising utility cost. No toxins are released or produced from the creation, use or disposal of PE.

"We have assessed baseline emissions, and our on-going monitoring demonstrates that our energy efficiency measures have resulted in lower emissions and a reduced carbon footprint."



Flexibility and Lightweight

The light weight nature of the material means savings from fuel costs associated with delivery and transport of the material to the job site and the elimination of heavy lifting equipment for installation. Flexibility reduces the need for fittings and is forgiving in shifting soil or earthquake prone areas. High flexibility also means a tighter bend radius and the ability to consolidate transportation packaging by the use of coils per applicable pipe size range.



Installation and Constructability

Installation methods such as horizontal directional drilling, pipe bursting, sliplining, submergence, pipe floating, and trenching are all possible with PE pipe. PE is the piping material of choice for trenchless installation which reduces restoration, roadway reconstruction, traffic disturbance and lane closure with less disruption to the surroundings. Installation below grade, above grade and under rivers and lakes are all a possibility.



When Performance Matters Rely on
Performance Pipe