Generating Energy from Water in Pipelines

ENVIRONMENTAL

According to the U.S. EPA, 6% of the energy consumed in the USA alone is used to purify and deliver water.

SOCIAL

Delivering drinking and irrigation water requires energy that is often in short supply, expensive, and dependent on fossil fuels that further deplete resources.

ECONOMIC

In the USA, drinking water and wastewater facilities spend nearly $4 billion per year on energy; by incorporating the use of LucidPipe, millions of megawatt-hours of low-cost electricity can be generated.

Developed in USA

Deployed in USA, China, Brazil, Mexico, Chile, Canada, Italy, Spain, and South Africa

"LUCID ENERGY IS IMPROVING THE ECONOMICS OF DELIVERING SAFE, CLEAN WATER WHILE REDUCING DEPENDENCE ON FOSSIL FUELS."

GREGG SEMLER, PRESIDENT AND CEO, LUCID ENERGY

→ Lucid Energy provides a new way for industries to generate renewable energy around the clock from the water in their pipelines.

The LucidPipe is an **in-conduit hydropower technology** that enables water-intensive industrial, municipal, and agricultural users to produce carbon-free, **low-cost electricity from water pipelines** and effluent streams. The technology recaptures energy embedded in fast-flowing water inside of large-diameter, gravity-fed pipelines without disrupting pipeline operations.

The LucidPipe spherical turbines spin as water passes through them, producing a consistent and **non-weather-dependent source of energy**. A market study recently completed by Navigant Consulting sizes the opportunity for sales of Lucid Energy's in-pipe hydropower product at $5-6 billion in the USA alone.

Why a Sustainia100 solution?

The U.S. EPA estimates that $633 billion in water infrastructure upgrades are needed to replace aging pipelines and to satisfy new demand over the next 20 years. By incorporating LucidPipe turbines into new and upgraded pipelines, millions of megawatt-hours of carbon-free, low-cost electricity can be generated.