

# Northwest PowerPipe

## Advanced Turbine Technology Generates Renewable Energy in Water Transmission Systems.

### Harness vast hydropower potential inside water delivery systems.

Northwest PowerPipe's™ remarkable *in-conduit* turbine technology enables water agencies, agriculture, and industry to generate revenue from normal pipeline operation. This innovative system produces electricity without disrupting water delivery by capturing excess head pressure and transforming the energy into electricity.



The system's wide operating parameters allow customers to install Northwest PowerPipes™ in new or existing transmission lines. Also, operators can place multiple units along a pipeline to maximize revenue potential.

### Environmentally Conscious Power Solutions

Northwest PowerPipe™ brings answers to the challenge of meeting

expanding environmental requirements. Each unit generates emission free, sustainable energy which minimizes the system's environmental impact and benefits the environmental approval process. Enclosed in steel pipe, the turbine poses no threat to fish, wildlife, or the unmarred vistas of natural landscapes.

### Offset Operation Costs, Maximize Marketing Advantages

Northwest PowerPipe™ solutions are both cost effective and affordable. The optimized *turbine design* provides a remarkable payback through energy generation. The *performance-based steel pipe* boosts the service life of the system. Generating *sustainable, renewable energy* provides ongoing positive public relations and marketing opportunities.



### Reliable Revenue from a Clean and Renewable Source

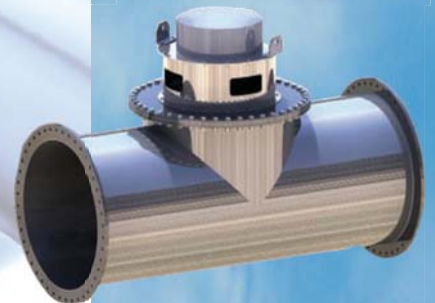
Besides saving on operating costs, water system owners can capture revenue by installing systems near communities. Owners can sell surplus electricity to local consumers.

### Northwest PowerPipe™ can help you generate power from your water system.

Whether retrofitting an existing water system or planning a new one, we have information to help you. Contact us to discuss the powerful potential of Northwest PowerPipe™.



Innovative vertical axis turbines extract energy from moving water in transmission pipe.



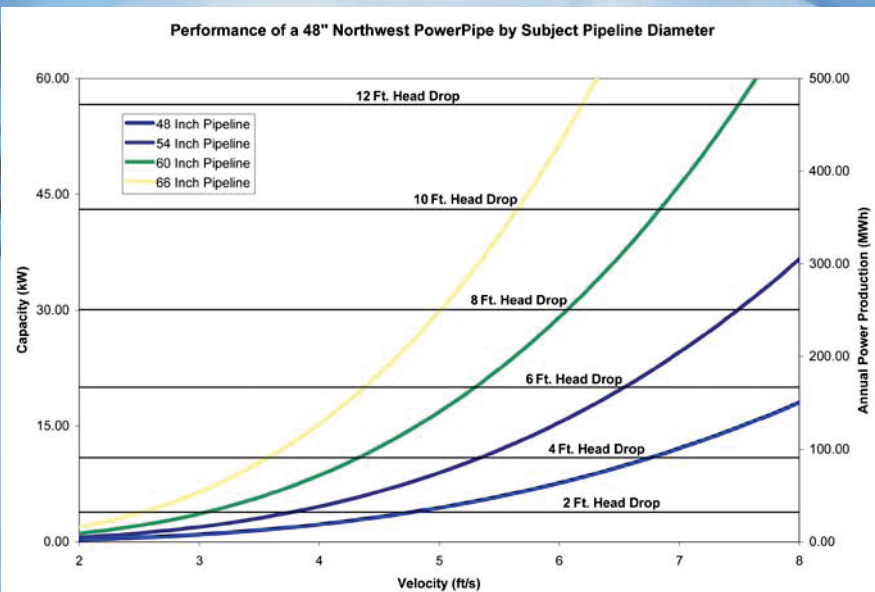
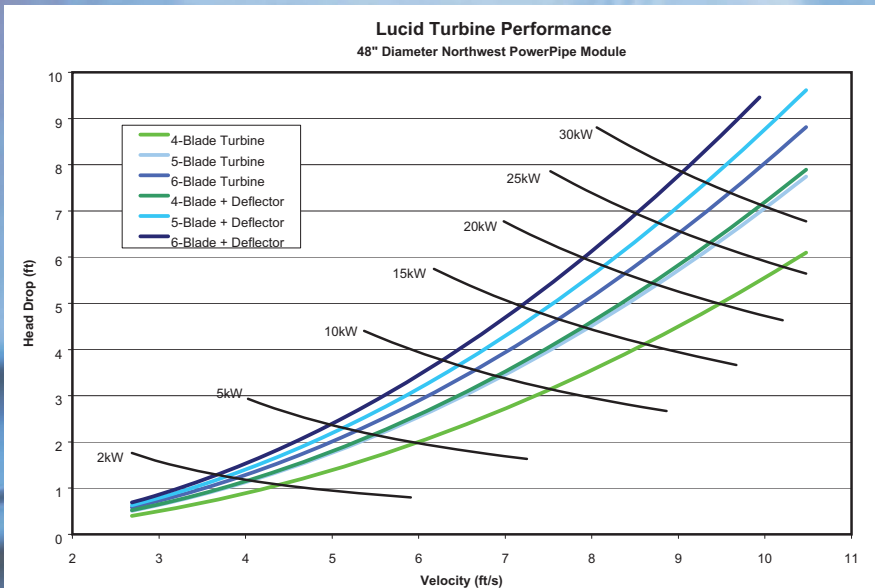
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WATER PIPE • WATER POWER

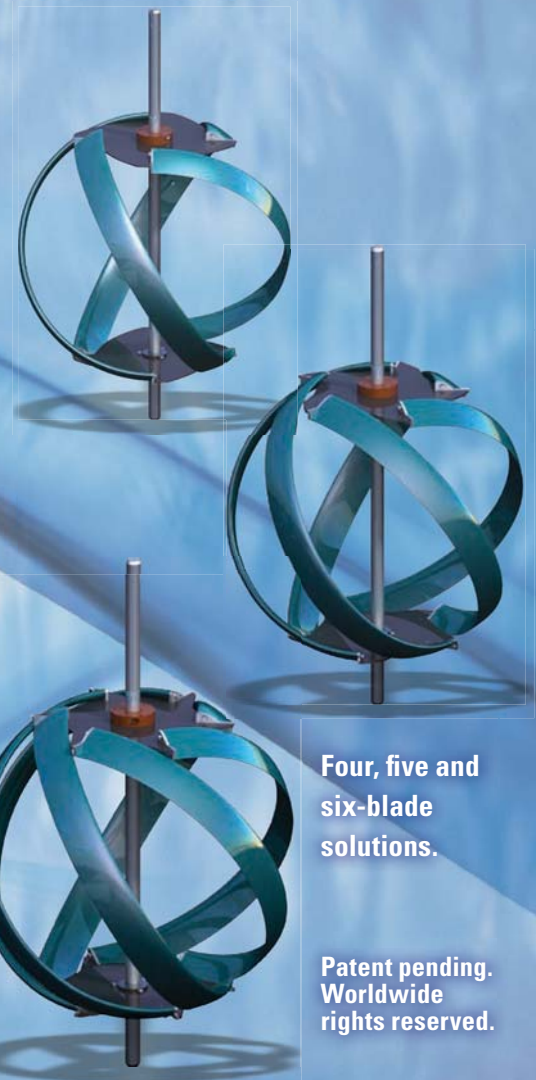
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## Turbine Performance Optimized by Multiple Blade Configurations



**Northwest Pipe Company** is the leading manufacturer of highly engineered pipeline systems for the transmission and distribution of water and wastewater. With facilities around the world, the company provides economical global delivery solutions. Northwest Pipe's proven products and expertise mean "Quality and Service You Can Depend On."

**Lucid Energy Technologies** has expertise in engineering turbines which extract energy from moving water. Over a decade of intense research and development focusing on lift-based vertical axis turbines led to ground-breaking turbine applications. Northwest PowerPipe's™ spherical turbine delivers a new generation of energy technology.

**Lucid Energy and Northwest Pipe** combine their extensive knowledge of turbine design and water transmission to bring a revolutionary renewable energy system to the market: Northwest PowerPipe™.

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