

PRESS RELEASE

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FIRST INSTALLATION OF MAVEL MODULAR MICRO TURBINES COMPLETED AT HEAD OF THE U HYDROELECTRIC PROJECT *- Output exceeds Projections -*

Boston, MA – April 2015 – Mavel Americas, Inc. (Mavel) announced the first installation of the company's proprietary TM Modular Micro Turbine ("TM Turbine") in the Americas. Eight Mavel TM Turbines have been successfully commissioned at North Side Canal Company's ("North Side") Head of the U Project near Jerome, Idaho with production at levels 6% above expectations.



Eight Mavel TM10 Turbines Installed at North Side Canal Co.'s Head of the U Irrigation Project

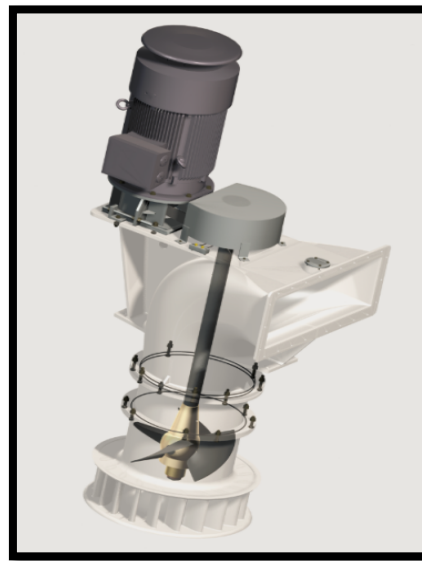
The project began two years ago, according to a June article in the local Magic Valley Newspaper, when North Side officials realized that they would need to replace a concrete structure on the Main Canal north of the

Jerome Butte. Instead of a simple replacement of the irrigation structure, North Side and its consulting engineer CH2M Hill designed a new system to both channel water for irrigation and generate electricity.

The Head of the U Project site had a vertical drop, known as head, of 20 feet and 1,200 cubic feet per second (cfs) of water flowing through the canal system available to generate power. North Side officials noted that adding power generation to irrigation structures had been done successfully in the past, but, according to Alan Hansten, Manager of North Side, the Head of the U project utilized a completely different system. “The system” he said, “is a less expensive method in terms of initial construction costs.”

After evaluating a number of turbine configurations, CH2M Hill recommended the installation of eight TM10 Turbines. The simple design of the TM Turbine negated the need for an enclosed powerhouse thereby reducing engineering modifications and the time and funding needed for construction.

The TM Turbine was developed over 40 years ago by the principals of Mavel for the Czech government. Each TM Turbine consists of a Kaplan-type runner with four manually adjustable blades. The runner is connected to an asynchronous generator by a belt drive allowing the turbine and generator speeds to be optimized for the site conditions. During start-up, the siphon is primed by a vacuum pump.



3D Image of Mavel's Modular Micro Turbine

The TM Turbine series, which includes the TM3, TM5 and TM10, is designed for low head applications ranging from 5 to 20 feet and flows from 5 to 160 cfs per unit. Power outputs range from 3 kW to 160 kW. Multiple units are often installed in tandem to cover a wider flow range.

Eric Shultz, Project Manager at CH2M Hill, said “the Mavel TM10 Turbine was selected due to the simplicity of the design, speed of delivery, ease of installation, overall value and proven performance. This is not untested technology.” He continued, “These machines have been installed all over the world and have proven long term reliability and performance.”

Mavel has supplied over 60 TM turbines at more than 30 locations around the world including Kyoto, Japan. In 2006, the city of Kyoto installed a 4.3 kW TM5 Turbine adjacent to its historic Togetsukyo Bridge as a symbol of its commitment to renewable energy.

For the Head of the U Project, CH2M Hill recommended the installation of the largest turbines in Mavel’s TM Turbine line. Each of the generating units has a nameplate capacity of 150 kW and consists of one TM10 Turbine, generator, draft tube and automated control system. This turbine solution is installed on support brackets attached to the weir structure. The units were delivered pre-assembled thus facilitating installation.

Civil construction for the replacement of the diversion and drop structure began in October 2013. The equipment contract was signed in February 2014. Equipment deliveries began in October 2014 and the plant was in full operation in April 2015. While the entire project was estimated to provide 4.2 million kW of energy per year, Hansten notes that the plant is operating with installed capacity of 1.28 MW and “produces 6% more energy than what we originally planned.”



Arial view of the Head of the U Hydroelectric Power Project

North Side Energy Company is a wholly owned subsidiary of North Side Canal Company, Ltd. North Side Canal Company was developed in the early 1900s under the Carey Act for the purpose of diverting water from the Snake River and delivering irrigation water to arid desert land for agricultural crop production. The Company oversees the delivery of irrigation water to 165,000 acres of farmland starting in April of each year and shutting down in October. In the late 1980s and early 1990s, four hydroelectric projects were developed on the North Side Canal Company system and thus the North Side Energy Company was formed. All of the hydroelectric projects are PURPA (Public Utilities Regulatory Policies Act) projects and the energy produced is sold to Idaho Power Company.

CH2M HILL delivers consulting, design, design-build, operations, and program management wherever clients in energy, water, environment and infrastructure need integrated solutions that provide lasting value. The company's 26,000 employees on six continents work on some of the most complex and challenging projects on the planet. The firm has provided full-service delivery in Idaho for over 60 years, serving clients like North Side, who develop, store, convey, and utilize water resources. Hydropower has always been a part of that picture. As North Side's needs evolved, CH2M HILL was there to help: from feasibility assessment, to interconnection assistance, to design of a new Head of the U structure, and finally, to integration of hydropower.

Mavel Americas, Inc. is the USA-based 100% owned subsidiary of Mavel, as., a Czech/American owned global leader in the supply of turbines (Kaplan, Francis, Pelton and Micro) for hydroelectric power plants from 30 kW to 30+ MW. Over the past twenty years, the company has installed or signed contracts for over 450 turbines at about 300 sites around the world. Mavel has two production facilities in the Czech Republic.