



**Governor's Excellence in Energy Efficiency Awards
Presented to**



**Winnepesaukee River Basin Program
New Hampshire Department of Environmental Services
May 18, 2012**



The Winnepesaukee River Basin Program is run by the Department of Environmental Services (DES). At the center of the program is the Franklin Wastewater Treatment Facility. The facility treats wastewater from 10 surrounding communities, processing over eleven million gallons daily.

Over the past several years, the WRBP has taken a large leap in improving the energy efficiency of its operations. Pulling together funding from various sources, including the American Recovery and Reinvestment Act, the United States Environmental Protection Agency, Public Service of New Hampshire's Energy Efficiency Program, and state capital funds through the office of the State Energy Manager the WRBP was able to perform a facility-wide retrofit for energy efficiency.

Major features of the Franklin project include an innovative blower technology designed to reduce aeration energy consumption by approximately 50 percent and overall facility energy consumption by almost 20 percent, while providing better system controls. The turbo-like blower system helps reduce annual power costs by approximately \$63,000 and annual greenhouse gas (CO₂) emissions by approximately 300 tons.

The WRBP also replaced the 30-year old original roof on its main building with a new "green roof" that minimizes storm water runoff and reduces building heating and cooling loads, and installed energy-efficient lighting.

WRBP is currently undergoing a study to determine if they can use its waste methane gas to generate energy to be used for facility heat or electricity. This is just one more example of how innovative they can be and shows just how far a facility can go with energy reductions and sustainable energy. This year, we are proud to present the Winnepesaukee River Basin Program with the award for Outstanding Energy Efficiency Initiative!