

CITY OF PORTSMOUTH



City Receives Rebates for Energy-Efficient Pumps

Sept. 17, 2007

FOR MORE INFORMATION:

City Manager John P. Bohenko, 610-7201

Deputy DPW Director David Allen, 427-1530

PORTSMOUTH – The City of Portsmouth will receive more than \$83,000 in rebates from Public Service of New Hampshire (PSNH) for the installation of energy-efficient motors and drives on three new pumps installed at the recently renovated Deer Street Sewage Pump Station. City Manager John Bohenko announced Today.

PSNH officials will present the rebate check for \$83,278.00 at the City Council meeting Monday night. The City installed the energy-efficient motors and variable frequency drives on three 200 HP pumps as part of a \$2.6 million yearlong reconstruction project to improve the efficiency of the pump station as well as the overall aesthetics of the exterior of the downtown facility.

“Sustainability efforts are very important to the City of Portsmouth and our residents. Using energy-efficient technology is a way to reduce both the cost and consumption of energy resources,” said Bohenko.

The new equipment is expected to reduce the City’s annual electricity use by more than 190,000 kilowatt hours, helping the environment while saving the City more than \$19,000 per year -- and possibly as much as \$280,000 over the lifetime of the motors.

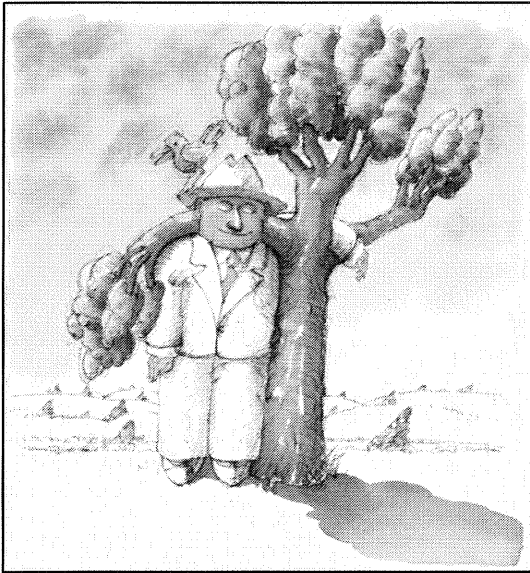
“Not only did we increase the efficiency of the Deer Street Pump Station by 3 million gallons per day as part of our ongoing sewer pipe separation project, we did it in the most energy-efficient way possible,” said Dave Allen, Deputy Director of Public Works. “This is a win-win situation for everyone.”

PSNH offers energy efficiency rebates to municipal, commercial and industrial customers under its New Equipment and Construction Program. PSNH says energy efficiency improvements protect the environment and enable the utility and its customers to reduce costs through better management of energy consumption.

"Installing energy efficient technology at the City’s pumping station is just one example of the City of Portsmouth taking full advantage of PSNH’s energy efficiency programs to save both energy and money,” said Gary Lemay, PSNH Senior Account Manager. The City also received a PSNH energy rebate for installing energy efficient technology at the new Public Library. The Portsmouth Housing Authority received a similar rebate.

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THE GREEN PAGE



**City of Portsmouth, Deer Street Pumping Station
2 Deer Street
Portsmouth, NH 03801**

Congratulations on installing the new, energy efficient equipment! Your project not only improves the energy efficiency of your business, saves money and enhances your bottom line... it also helps the environment.

You've helped the environment by eliminating the need to generate electricity (kWh). PSNH estimates the impact of your project to be as follows...

transition & default energy charge effective 1/1/07, emissions updated 5/04

Estimated Energy Savings for Rate GV Customers

| | | | | | |
|---|--|---|-------------------------|---|---|
| | 194,112 kWh | X | 15.00 year measure life | = | 2,911,680 Lifetime kWh Savings |
| X | \$ 0.09852 per kWh | | | | \$ 0.09852 |
| | \$ 19,124 annual energy savings | | | | \$ 286,859 Lifetime energy savings |

Reduced Oil Consumption

$$194,112 \text{ kWh} \times 0.069 \text{ gallons of oil/kWh} = 13,394 \text{ gallons/year}$$

Reduced Power Plant Emissions

CO2 (a "greenhouse" gas)

$$194,112 \text{ kWh} \times 1.50 \text{ lbs/kWh} = 291,802 \text{ lbs/year}$$

SO2 (a cause of acid rain)

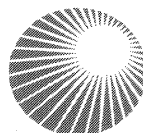
$$194,112 \text{ kWh} \times 0.01 \text{ lbs/kWh} = 1,941 \text{ lbs/year}$$

NOx (a cause of acid rain)

$$194,112 \text{ kWh} \times 0.002 \text{ lbs/kWh} = 388 \text{ lbs/year}$$

The above calculations assume fossil fuels are burned to provide incremental energy to the PSNH distribution system.
(Nuclear power plants provide baseload energy and their operation would not be affected by this energy efficiency project.)

Thank You.



**Public Service
of New Hampshire**