

2007 Governor's Award for Pollution Prevention

New Hampshire Ball Bearings, Astro Division

New Hampshire Ball Bearings, Astro Division (NHBB) opened its doors in 1946 and has been providing spherical and rod end bearings for the aerospace industry for the last 40 years. NHBB has dedicated itself to establishing and maintaining a world class environmental management system that includes internal and external commitments to reduce their environmental footprint. As part of the regular planning process for their Environmental Management System, they establish annual goals, targets and implementation plans for pollution prevention.

Their award-winning environmental improvement projects:

- Reduced hazardous waste by 8,768 pounds and non-hazardous waste by 191.4 tons between 2003 and 2006.
- Reduced emissions by 365.4 metric tons of carbon dioxide.
- Energy reduction was 4,251,650 kWh.
- Net savings of 189,817 gallons of water.
- NHBB has also introduced an aggressive recycling program.

Total Annual Savings \$513,000



From left to right: Manager of Environmental Affairs Chris Rawnsley, Operations Manager; Jim St Pierre, Vice President of Manufacturing; Rich Bardellini, Facilities and Environmental Manager Herb Parkhurst; Governor John H. Lynch; and NHDES Commissioner Thomas Burack

Public Service of New Hampshire, Northern Woods Power Project

Public Service of New Hampshire (PSNH) is the state's largest electric utility, serving more than 490,000 customers. PSNH received a 2007 Governor's Award for its newest upgrade at its Schiller Station in Portsmouth, where it replaced a 50-megawatt coal-burning boiler with a wood burning boiler of the same capacity, and reduced the use of coal by more than 130,000 tons a year. The Northern Woods Power Project is one of the largest renewable energy repowering projects in the country.

Its award-winning environmental improvement projects:

- Reduced air emissions by 2,045.5 tons by switching from coal to wood at the facility.
- Reduced its mercury emissions by 90%.
- Reduced No. 6 fuel oil usage by 600,000 gallons a year.



From left to right: Project Manager Mike Hitchko; Senior Environmental Coordinator Felicia Giordano; Senior Counsel Linda Landis; Technical Business Manager Lynn Tillotson; Vice President-Energy & Generation John MacDonald; Governor John H. Lynch; Director – PSNH Generation Bill Smagula; and NHDES Commissioner Thomas Burack

- Reduced coal ash by 50,000 tons per year.

PSNH did not cite any additional monetary savings for itself, but noted that this project would increase the regional economy by approximately \$20 million.

Honorable Mention

Monadnock Paper Mills - Bennington

- Monadnock Paper Mills manufactures paper.
- An exchanger was installed their steam driven turbine that allows excess steam to be re-routed to the condensate receiver tank which reduces energy production.
- The company also retrofitted all of the lighting systems, improved fiber and filler retention, and reused their waste paper broke which reduces raw material waste.



Manager of Environmental Services Michelle Hamm and NHDES Commissioner Thomas Burack

These projects have saved 82 tons of raw materials, 794,948 kWh and the company approximately \$213,000 per year.

New Hampshire Adjutant General's Department

- New Hampshire Adjutant General's Department is responsible for construction and maintenance of the infrastructure and services that support a number of tenants, including the NH Army and Air National Guard, at 21 installations around the State of NH.
- Targeted 19 buildings to lower utility costs, improve reliability of systems, lower maintenance costs and improve comfort levels.
- There were eight projects involved in this process, including implementation of an Energy Management System and retrofitting an existing aircraft hanger that passed LEEDs Silver accreditation.



From Left to Right:
NHDES Commissioner Thomas Burack, Director of Installations Col. Jeffrey Vorce and Energy Manager Thomas Roberts

The department reduced their emissions by over 1 million pounds and their energy usage by 700,272 kWh. They also saved approximately \$171,000 a year.

Ripano Stoneworks Ltd. - Nashua

- Ripano Stoneworks fabricates and installs interior stone work including granite kitchen counters, marble vanity tops, bar tops and fireplace surrounds & hearths.
- When moving its operation from Hudson to Nashua in 2006 Ripano decided to retrofit an older building instead of constructing a new site.
- Upgraded the heating systems to an infra-red system and replaced existing lighting to energy efficient T8 lamps.
- Installed a closed loop 100% water recycling system, which saved approximately 30,000 gallons a day.



From Left to Right
NHDES Commissioner Thomas Burack, President
Richard Laliberte and Vice President Matt Laliberte

The company reduced their energy by 2,262 kWh and their water usage by 5 million gallons a year. The savings from these projects have yet to be determined.

Southeastern Container Inc. – Hudson

- Southeastern Container in Hudson produces mainly 20 oz and 2 liter plastic bottles for Coca-Cola bottling facilities in the Northeast.
- Implemented an air recovery system and recirculated the building heat to be more efficient year round.
- Changed their production process by reducing the amount of raw material used. Approximately 3.5 g per bottle.



From Left to Right
NHDES Commissioner Thomas Burack, Northeast
General Manager John Fischer, Administrative Assistant
Jamie Lawrence, Shipping Team Coach Stephen Flood
and Operations Manager Neil Luton

This branch of Southeastern Container has saved the parent company over \$800,000 a year and reduced their raw material consumption by 23,044 tons a year. The company has also reduced their energy usage by 5.2 million kWh.