

Energy Efficiency in State Government

Annual Meeting and Awards Presentation

March 6, 2009



*Employees Working Together to Reduce Energy Use,
Protect the Environment, and Save Money*



Energy Efficiency in State Government Annual Meeting

Governor Lynch's July 14, 2005 Executive Order

Sets a goal of reducing energy use by 10% in state facilities, in conjunction with the U.S. EPA's *Energy Star Challenge – Building a Better World 10% at a Time.*





Energy Efficiency in State Government Annual Meeting Making it Happen!

- Interagency Energy Efficiency Committee for overall facilitation
- Fleet Policy Workgroup
- Agency Energy Coordinators and Teams
- Facility Managers
- All Employees



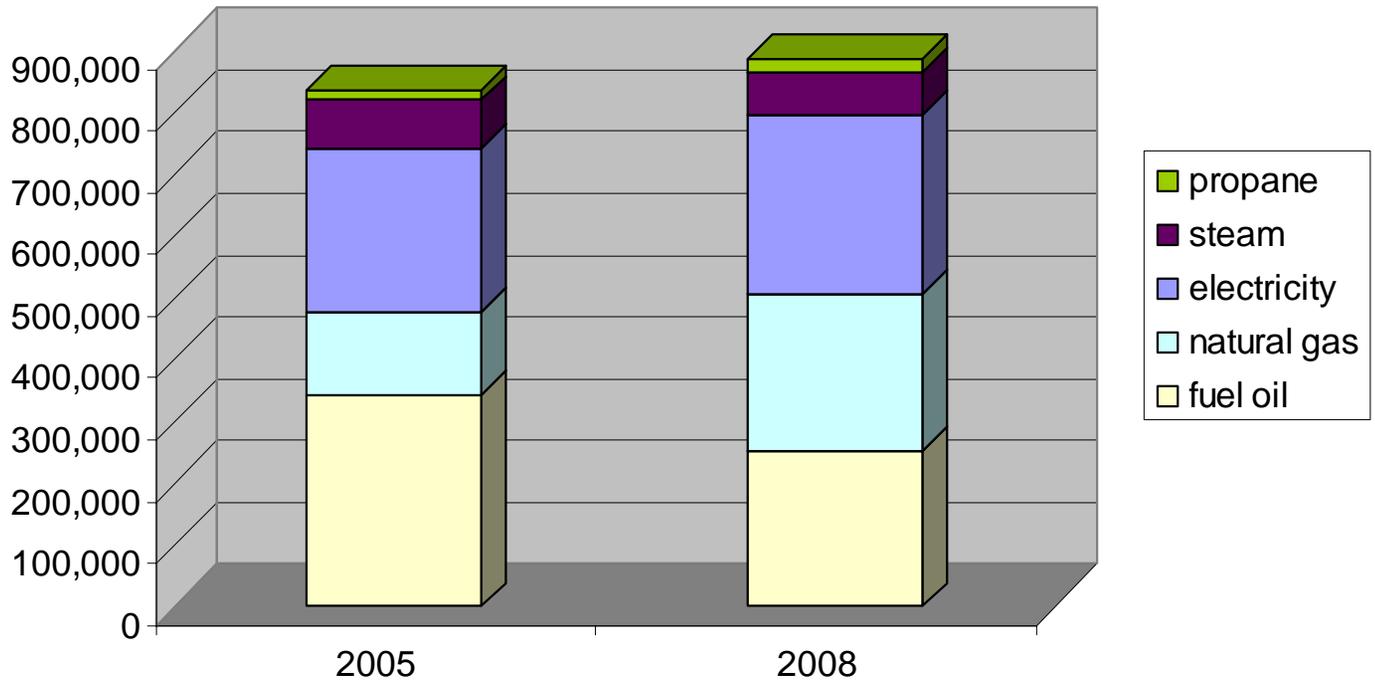


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Progress in Meeting the 10% Goal

Composition of Energy Use 2005 and 2008

Thousand kBtus





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- ❑ One of the most dramatic changes in energy use was the substitution of natural gas for heating oil in many of the state's boilers.
- ❑ Natural gas is cheaper, cleaner, and emits fewer greenhouse gases than oil.
- ❑ This transition actually *reduced* the amount of greenhouse gas emissions resulting from heating our buildings, despite an increase in energy use.





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Department	Rank in Total Energy Usage	% Change in Total kBtUs	% Change in EUI
Dept. Agriculture	16	7%	7%
DES	15	-9%	-9%
DHHS - Tirrell House	15	-4%	-2%
Christa McAuliffe	14	-10%	-10%
Police Standards	13	-5%	-5%
DRED	12	-18%	-21%
Employment Security	11	-10%	-10%
Dept. Safety	10	-9%	-6%
Liquor Commission	9	21%	20%
Veterans Home	8	5%	5%
Glenclyff	7	-1%	-1%
Adjutant General	6	5%	2%
Juvenile Justice	5	43%	-8%
NH Hospital	4	-9%	-12%
DOT	3	1%	-3%
Corrections	2	-2%	5%
Dept. Admin Services	1	17%	7%
State Totals		6%	2%

Eleven of 17 property-owning agencies showed an overall decline in energy use per square foot of heated space between baseline year of FY2005 and FY2008.





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\$1,228,396 = Amount State would have saved in FY2008 if it had used the same amount of energy in State-owned buildings as it did in FY2005.

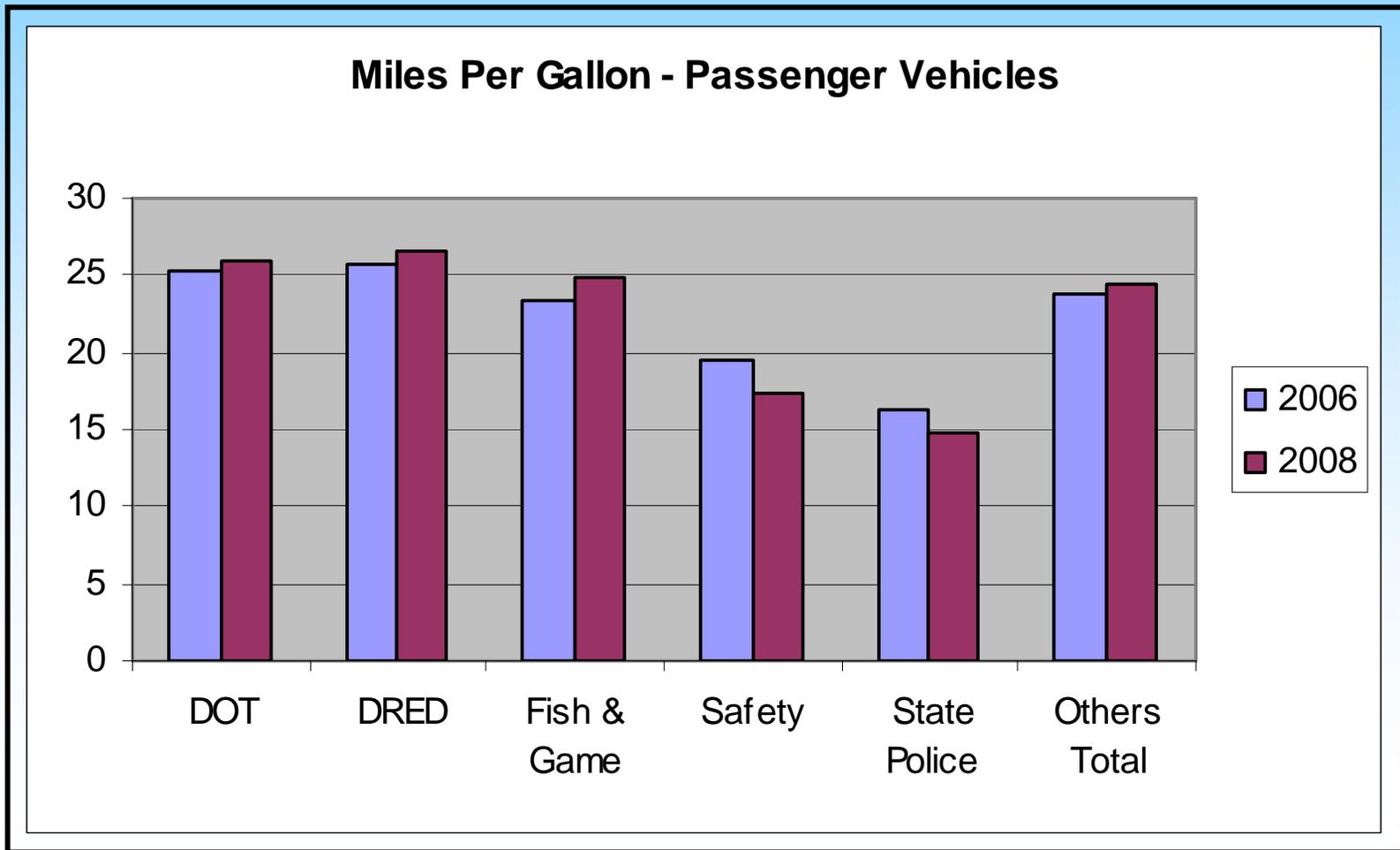
\$3,156,919 = Amount State would have saved in FY2008 if it had used 10% less energy in State-owned buildings than it did in FY2005.





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State Fleet Efficiency Data





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NH State Fleet - Highlights

- ❑ New vehicle purchasing requirements for 2009 (or get a waiver):
 - 32 mpg for passenger vehicles
 - 24 mpg for light duty trucks

- ❑ Department of Transportation established “Fuel Reduction Initiative” for efficient fleet operation.





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NH State Fleet – Highlights

- ❑ Department of Safety established idling time policy for traffic details (15 minutes out of every hour).
- ❑ Department of Labor implemented a 55 miles per hour speed limit policy to save fuel.





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NH State Fleet – Alternative Fuel Vehicles

- ❑ State policy promotes AFVs (e.g. biodiesel, compressed natural gas-CNG)
- ❑ Funding opportunities
 - Granite State Clean Cities Coalition
 - Diesel Emission Reduction Act
- ❑ Myths and Barriers





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NH State Fleet – Priorities and Opportunities

- Dept. of Administrative Services to issue state-wide RFP for preventative maintenance of state-owned vehicles.
- SB 68 – Lowers minimum annual mileage requirements and provides for fleet averaging.
- Dept. of Transportation pilot project for statewide fleet management.





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Clean Fleets Policy – Some Green Driving Tips

- 1. Avoid Idling** – It translates to 0 miles per gallon so turn off the engine if parked for longer than 30 seconds.
- 2. Drive Sensibly** – Rapid starts and stops can lower gas mileage by 5-33%.





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Clean Fleets Policy – Some Green Driving Tips

- 3. Maintain Optimum Highway Speed –**
Speed over 60 mph uses more fuel.
Observing the speed limit can improve mileage by 7-23%.
- 4. Use Air Conditioning at Higher Speeds –**
Over 40 mph, the drag from open windows uses more gas than using the AC.





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Clean Fleets Policy – Some Green Driving Tips

5. Use Cruise Control - Save up to 7% more fuel, but make sure you use this tips on flat lands. You'll burn more gas than average if you use cruise control on hills.

EcoDriving (from Alliance of Automobile Manufacturers) – More online at www.ecodrivingusa.com





Energy Efficiency in State Government Annual Meeting Computer Power Management Initiative “Kilowatt Countdown”

I'm a
Kilowatt Counter

- Pilot Program for 6 agencies and 115 state employees, summer 2008.
- Full implementation in Governor's Office (35 employees) and DES (500+ employees) for initial agency wide launch, fall 2008.
- Now being rolled out to all agencies.





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Kilowatt Countdown

- Power Saving Settings
 - Set monitors to power down or turn off after 10 minutes.
 - Set computers (and laptops) to enter system standby after one hour.

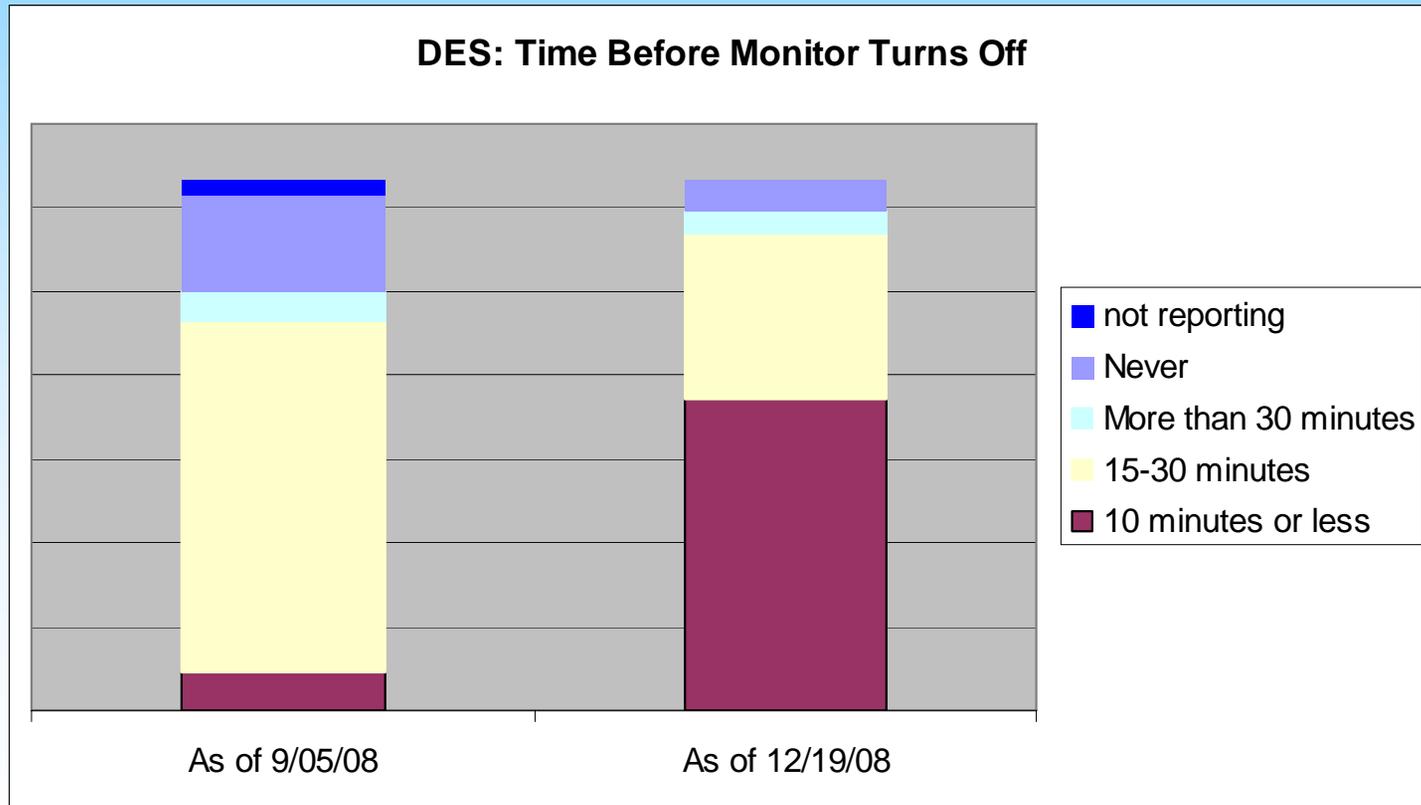
- Security Settings
 - Set password protection on after 20 minutes.





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Kilowatt Countdown – Results at DES



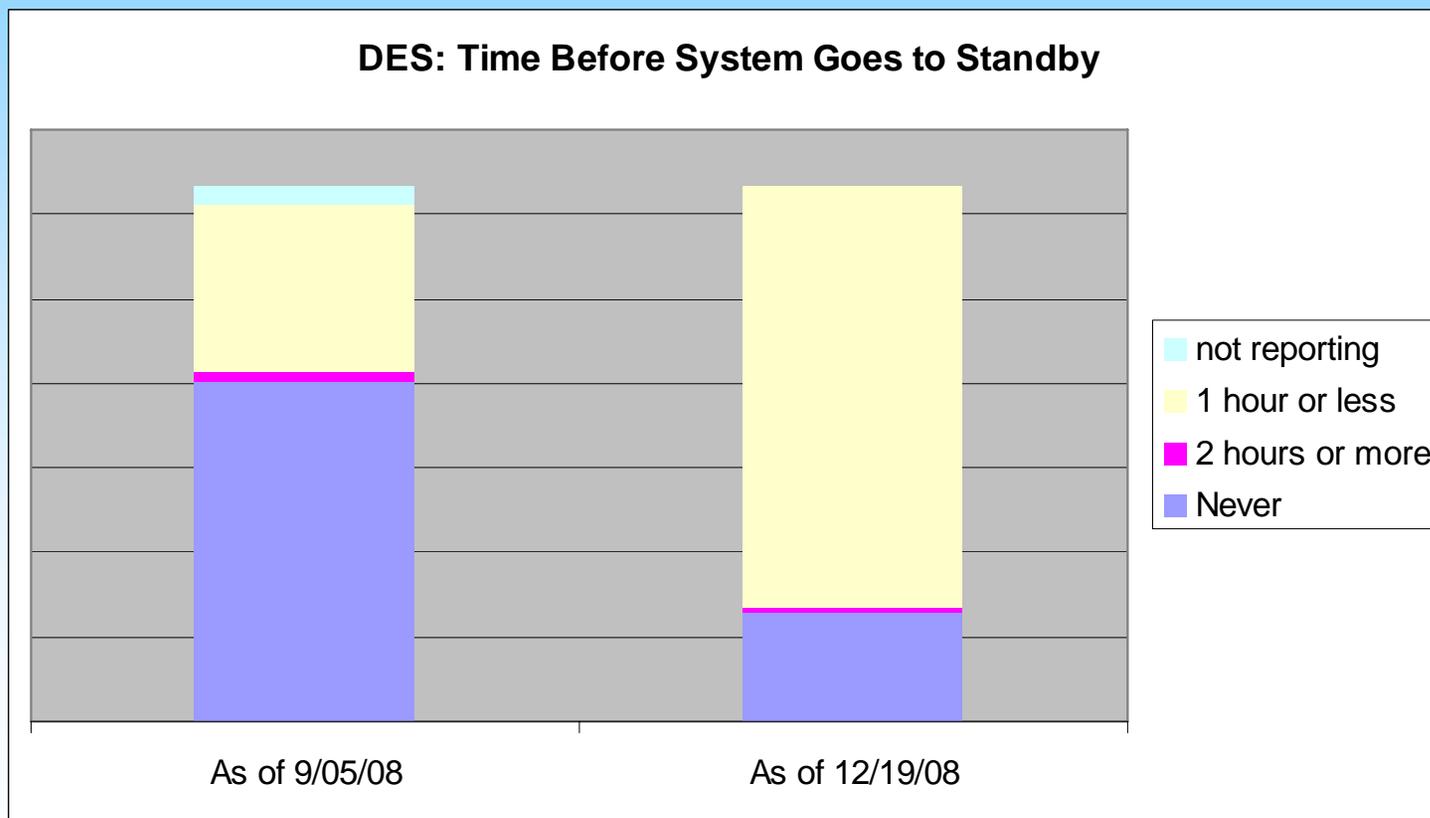
Save the Juice When Not in Use!





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Kilowatt Countdown – Results at DES



Save the Juice When Not in Use!





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Energy Newsletter and Website

- The Interagency EE Committee Outreach Group is seeking input on its state-wide energy newsletter.
- Newsletter naming competition and story ideas needed.
- Today's presentations, energy saving tips, Kilowatt Countdown instructions, newsletter, and much more available on Sunspot.





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Funding for Energy Projects

- Funding is likely to increase *significantly* in coming months.
- There are several potential sources for funding.
- Continue exploring energy efficiency projects and communicating with the State Energy Manager for the latest information.





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Funding for Energy Projects

- “Demand Response Program” is offered by ISO New England, the manager of the region’s electricity grid.
- All large State-owned facilities with capacity to reduce or eliminate electricity demand during peak events (typically on hot summer days) should consider participating.





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Funding for Energy Projects

- Facilities with emergency generators should also consider participating.
- ISO New England will pay the State to reduce demand or increase generation during peak events.
- Funds will be used for energy efficiency projects in State facilities.
- Contact Karen Rantamaki at 271-2698.





Energy Efficiency in State Government Annual Meeting

10:00 – 11:00 Mini-Trainings

- A. “Join the Team: How to Motivate State Employees to Save Energy and Money”
Led by Kathy Brockett of DES in large conference room

- B. “Energy Management and Strategies for Facility Managers” Led by State Energy Manager Karen Rantamaki in large conference room

- C. “Energy Data: the Key to Measuring Progress” Led by Mary Downes of OEP in Room 113





Energy Efficiency in State Government Annual Meeting

11:10 – 12:00 noon Award Presentation

Join Governor Lynch for the presentation of Excellence in Energy Efficiency Awards, to recognize agencies and individuals for their significant energy saving efforts.





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Unsung Heroes

Don Andrews, Administrator of Services, Dept. of Corrections

Mike Archer, Plant Maintenance Engineer, Glencliff Home

Irene Aubut, Accountant, NH Technical College

Nancy Bickford, Program Assistant, NH Hospital

Craig Bulkley, Chief, Liquor Commission

Loretta Butler, Accountant, Dept. of Corrections

Dave Clapp, Administrator, Bureau of Facilities, Dept. of Administrative Services

Caleb Dobbins, Administrator, Highway Maintenance, Dept. of Transportation

Pam Donley, Agency Steward, YDC, Juvenile Justice Services

Don Ficken, Plant Maintenance Engineer, NH Hospital

Juliette Fister, Technical Support Specialist, DoIT

Rick Gagne, Plant Maintenance Engineer, Dept of Corrections





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Unsung Heroes

Sheila Gagnon, Business Administrator, NH Hospital

Sharyn Goddard, Technical Support Specialist, Dept. of Information Technology

Doug Gosling, Senior Engineer, Bridge Maintenance, Dept. of Transportation

Doug Graham, District Highway Maintenance Engineer, Dept. of Transportation

Jonathan Hanson, Administrator, Turnpikes, Dept. of Transportation

Jeff Hill, Planetarium Engineer, Christa McAuliffe Planetarium

Gail McWilliam Jellie, Director Agriculture Development, Dept. of Agriculture

Bill Johnson, Financial Data Specialist, Dept. of Administrative Services

Jeannie Labelle, Manager Regional Support Services, Dept. of Information Technology

Bill Lavallee, Maintenance Technician, Dept. of Corrections

Ernie Liakas, Supervisor, NH Employment Security





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Unsung Heroes

Steve Lorentzen, Administrator, Court Facilities, Dept. of Administrative Services

Robert Lozeau, Maintenance Technician, NH Hospital

Jean Medeiros, Business Administrator, Police Standards and Training

Bob Mullen, Director of Administration, Dept. of Corrections

Karen Nystrom, Accountant, Glenclyff Home

Greg Placy, DOT

Seth Prescott, Public Works Manager, Dept. of Resources and Economic Development

Tobey Reynolds, Senior Engineer, Traffic, Dept. of Transportation

Mary Robinson, Supervisor, Dept. of Administrative Services

Dave Rodrigue, Engineer, Dept. of Transportation





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Unsung Heroes

Amy Rook, Accounting Technician, Dept. of Transportation

Wayne Roswell, Civil Engineer, Dept. of Transportation

Ted Rydberg, Plant Maintenance Engineer, Dept of Corrections

Cheri Sirrianna, Accounting Technician, Liquor Commission

Beth Serrine, Admin Asst. Dept of Agriculture

Ann-Marie Smith, Program Assistant, Dept. of Environmental Services

Bob Stowell, Administrator, Purchasing, Dept. of Administrative Services

Gene Taylor, Financial Data Specialist, Dept. of Administrative Services

Mike Therrien, Plant Maintenance Engineer, NH Technical College

Ron White, Administrator, General Services, Dept. of Administrative Services

Verna White, Clerk, Dept. of Transportation

