

**ROUTING**

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# Partnership

...ge of Health Service Executives is proudly partnered with Natural Resources Canada to bring you the Energy Innovators Initiative.



Canadian College of Health Service Executives  
Collège canadien des directeurs de services de santé

## Workshop Training Pays Dividends for Pictou County Health

*Ray Hogan, PCHA Director Maintenance*

Pictou County Health Authority [PCHA] has two main buildings: the Aberdeen Hospital in New Glasgow, and Sutherland Harris Memorial Hospital in Pictou. The health authority, as with most organizations in the health care industry, spends a significant amount of money on utilities. At the Aberdeen Hospital, a 29,259 m2 facility, we spend on average \$1.2 million annually. During the fiscal year 2000-2001 our expenditures were: oil [\$550K], electricity [\$640K] and water [\$80K].

After attending the three Natural Resources Canada Dollars to Sense Energy Management Workshops, I was shown numerous areas and opportunities that could help reduce our expenditures on utilities and allow us to free up money that could be spent on capitol projects and equipment.



The PCHA joined the Energy Innovators Initiative in December 2002. With the help of two qualified engineers, Pat Gardner and Dale Robinson, we completed an energy audit in March 2003 which verified areas in which we could save dollars. Once the health authority's senior management reviewed the audit they were very interested in the savings that could be achieved as well as the idea of partnering with Natural Resources Canada for possible funding of energy projects.

We proceeded to develop an Energy Management Plan [EMP] which would formulate projects into priorities and also act as our action plan for the next three years. The EMP was completed with the help of Pat Gardner and submitted to Natural Resources Canada in February 2004. PCHA's goal is to reduce energy consumption costs by 20% by 2006, which translates into savings of approximately \$200,000.

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Welcome...  
Bienvenue

364

ENERGY INNOVATORS/  
INNOVATEURS ENERGETIQUES

NEW ENERGY INNOVATORS/  
NOUVEAUX INNOVATEURS  
ENERGETIQUES

Stevenson Memorial Hospital

Allison ON

Centre hospitalier de Gaspé

Gaspé QC

Tudor House Personal Care Home

Baie-Comeau QC

Northern Lights Health Centre

Fort McMurray AB

Lillian Fraser Memorial Hospital

Truro NS

Centre hospitalier Beauce-Etchemin

Ville de Saint-Georges

Orthopaedic & Arthritic Institute

Toronto ON

Women's College Ambulatory Centre

Toronto ON



*Louis Leroeye (right) and staff participants in this year's World Environment Day celebration in June.*

## Seven Oaks General Hospital hosts TEEK

Throughout the past year our Travelling Energy Efficiency Kiosk (TEEK) has been making the rounds of Canadian health care facilities assisting them in their promotion of energy efficiency and a greener, healthier environment.

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Turning Energy Dollars into Health Care Dollars ... for a Healthier Planet

## Seven Oaks General Hospital

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Facilities such as St. Thomas-Elgin General Hospital (St. Thomas - ON), Kenneth E. Spencer Memorial Home (Moncton - NB), Brandon Regional Health (Brandon - MB), and Seven Oaks General Hospital (Winnipeg - MB) have used the Kiosk as a cornerstone to a number of in-house awareness events.

Louis Leroeye, Chief Engineer at Seven Oaks General Hospital, has just completed deploying the Kiosk in his site as part of a celebration of World Environment Day. Staged in the hospital's dining room, "The Oaks", the exhibit also featured a number of laminated posters outlining energy efficiency measures associated with the site. A small display on 'Wind Power in Manitoba' was also present.

A quiz with prizes formed part of the event, at the conclusion of which the correct answers were published in the hospital's newsletter, PULSE. To extend the benefit of this educational event beyond simply the facility itself, Louis prepared a binder containing detailed information on new fuel efficient vehicles. Of course it was an environmentally suggestive "green" binder that was used.

Seven Oaks General was a lead participant in the first ever National Health Care Energy Efficiency Awareness Week in February 2004 providing similar in-house activities to bring attention to the topic of energy efficiency and how each member of the staff can have a positive impact on both energy expense reduction and environmental improvement.

Energy efficiency initiatives during the 2004-2005 year will continue at Seven Oaks with a planned lighting upgrades in the Patient Tower areas which will, in part, be funded under Manitoba Hydro's Power Smart rebate.

To learn more about how your facility can participate in the Travelling Energy Efficiency Kiosk (TEEK) programme, visit [www.chse.org/oe/downloadables/pdfs/TEEK\\_combo.pdf](http://www.chse.org/oe/downloadables/pdfs/TEEK_combo.pdf)

## LES TOITS VERTS SONT ADMISSIBLES AU FINANCEMENT DES BÂTIMENTS ÉCONERGÉTIQUES DU GOUVERNEMENT DU CANADA

TORONTO – Les organismes qui font pousser des plantes sur le toit de leur immeuble pourraient récolter des économies d'énergie et une subvention du gouvernement du Canada. En effet, la technologie des toits verts est considérée comme une mesure admissible aux programmes fédéraux existants de financement des bâtiments éconergétiques.

« La technologie des toits verts a fait ses preuves pour ce qui est de rendre les bâtiments plus éconergétiques. En outre, elle contribue à assainir l'environnement et à embellir les collectivités, a déclaré l'honorable John Godfrey, secrétaire parlementaire du Premier ministre particulièrement chargé des villes, au nom de l'honorable R. John Efford, ministre des Ressources naturelles du Canada (RNCAN). Nous espérons que notre financement incitera les propriétaires d'immeubles à investir dans cette mesure et à fournir leur part pour relever le Défi d'une tonne en vue de réduire les émissions de gaz à effet de serre. » Cette annonce a été faite à l'occasion de la Conférence of the Reducers.

Ces programmes de financement, offerts par l'entremise de l'Office de l'efficacité énergétique de RNCAN, comprennent l'Initiative des Innovateurs énergétiques (IIE), le Programme d'encouragement pour les bâtiments commerciaux (PEBC) et le Programme d'encouragement pour les bâtiments industriels (PEBI). Ils s'appliquent à la conception de bâtiments neufs, à la planification de la rénovation et à la rénovation effective d'installations comme les hôtels, les écoles et autres grands immeubles. Les primes d'encouragement sont basées sur les économies d'énergie réalisées.

La technologie des toits verts désigne un revêtement d'étanchéité composé de membranes imperméables résistantes aux racines, d'un léger support de culture, de couches de drainage et de plantes qui reposent directement sur la toiture. Elle ne comprend pas les plantes en pot. Le revêtement permet des économies sur le chauffage et la climatisation, réduit les besoins d'entretien de la toiture et procure une isolation acoustique, en plus d'être esthétique. Il est particulièrement avantageux l'été et offre un rapport coût-efficacité optimal dans les bâtiments qui coûtent cher en climatisation.

Considérés comme un nouveau concept au Canada, ces toits verts sont pourtant largement utilisés en Europe depuis plus d'une décennie. Plus de 10 % des toitures-terrasses en Allemagne contiennent une infrastructure de toits verts.

L'IIE assume jusqu'à 50 % des coûts de planification de la rénovation et jusqu'à 25 % des coûts des travaux, selon les économies d'énergie réalisées, dans les bâtiments commerciaux et institutionnels. Le PEBC et le PEBI subventionnent la conception d'immeubles neufs qui consomment au moins 25 % moins d'énergie que les bâtiments de référence. Pour un financement optimal, les projets devraient comprendre des mesures multiples d'économie d'énergie. Des renseignements sur ces programmes se trouvent sur le site Web [www.oe.rncan.gc.ca/ici/francais/accueil.cfm](http://www.oe.rncan.gc.ca/ici/francais/accueil.cfm).

Le financement de ces initiatives a été annoncé auparavant et il est prévu dans le budget fédéral de mars 2004. Sur le front des changements climatiques, le gouvernement du Canada s'emploie à faire des choix judicieux pour le pays, de sorte que les mesures prises contribuent à la réalisation des objectifs à long terme de bâtir une économie durable pour le XXI<sup>e</sup> siècle, d'assainir l'environnement et de renforcer les collectivités, tout en positionnant le Canada parmi les grandes nations du monde.

Source: [www.rncan-rncan.gc.ca/media/newsreleases/2004/200423\\_f.htm](http://www.rncan-rncan.gc.ca/media/newsreleases/2004/200423_f.htm)



## CLINICS are big SUCCESS

Over the last few weeks, Natural Resources Canada's Office of Energy Efficiency, in association with CCHSE, have held ERA Clinics in Brandon, MB, Charlottetown, PEI, Halifax, NS, and Moncton, NB. During these clinics, attendees learned how to go through the steps necessary to apply for funding for an energy retrofit project. After the presentation, attendees were able to sit down with an Energy Innovators Officer in a 1-on-1 meeting where they could discuss specific projects. These clinics were a huge success in all regions. A total of 67 people attended these clinics, 19 of them staying for 1-on-1 meetings. Five projects have already come in and many more are expected over the course of the next few months.

We would like to thank Brandon Regional Hospital, the Queen Elizabeth Hospital, the IWK Children's Hospital, and South-East Regional Health Authority for helping with the organization of these clinics.

If this type of information clinic is of interest to you as you move forward with your energy retrofit project, please let us know. One could be offered in your region. Contact the EII by phone at (613) 992-3245 or by e-mail at [info.services@nrcan.gc.ca](mailto:info.services@nrcan.gc.ca).



## Les séances pratiques connaissent un IMMENSE succès

Au cours des derniers mois, l'Office de l'efficacité énergétique de Ressources Naturelles Canada en collaboration avec le CCHSE (not sure what French acronym is) a organisé des sessions d'information concernant les appuis

financiers de l'Initiative des Innovateurs énergétiques dans les villes de Brandon, MB, Charlottetown, PEI, Halifax, NB, et Moncton, NB. Lors de ces sessions, les participants ont appris tout ce dont ils avaient besoin de connaître afin de soumettre une demande d'aide financière pour une amélioration de bâtiment. Suite à la présentation, les participants avaient la chance de rencontrer un agent des Innovateurs énergétiques pour discuter de leur projet en particulier. Ces sessions se sont avérées un énorme succès dans toutes les régions. Un total de 67 personnes se sont présentées à ces sessions, 19 d'entre elles sont restées pour des rencontres individuelles. Jusqu'à date, nous avons reçu 5 nouvelles demandes d'aide financière et nous nous attendons d'en avoir plusieurs autres au cours des prochains mois. En terminant, RNCAN aimerait remercier l'hôpital régional de Brandon, l'hôpital Reine Elizabeth, l'hôpital pour enfants IWK, ainsi que South-East Regional Health Authority pour leur aide lors de l'organisation de ces sessions.

2. Si une séance pratique d'information de ce genre vous intéresse dans le cadre de votre projet d'amélioration du rendement énergétique, contactez-nous. Une séance pourrait être offerte dans votre région. Vous pouvez communiquer avec l'EII par téléphone au (613) 992-3245 ou par courriel à l'adresse suivante : [info.services@nrcan.gc.ca](mailto:info.services@nrcan.gc.ca).



## Energy Efficiency and Green Health Care on Stage at OHA Convention

*Brian Shields, OHA Energy Coordinator*

The Canadian Coalition for Green Health Care and the Ontario Hospital Association (OHA) will, for the fourth consecutive year, be partnering to promote the "greening" of health care at the annual OHA Convention & Exhibition, *Health Achieve* at the Metro Toronto Convention Centre on November 15, 16 & 17, 2004.

This year's Green Health Care Session promises to be the most dynamic and exciting yet, featuring former Ontario Premier, Bob Rae as keynote speaker. Also slated to speak is Dr. John Howard, Professor of Paediatrics and Medicine at the Children's Hospital of Western Ontario, who will speak on the correlation between the physical, economic, social and political environments and our health. Additional topics to be addressed during the session include: measuring the benefits of an energy awareness program, reducing toxic chemicals in hospitals, the safe disposal of old office and medical equipment, and the proper recycling of used printer ink cartridges.

The Convention is also an opportunity to recognize and celebrate the environmental successes that Ontario hospitals have already made, with the presentation of the Green Health Care Awards. The awards recognize hospitals and individuals who demonstrate leadership and excellence in reducing health care's environmental impact. Awards will be granted for outstanding achievements in four categories: Energy Efficiency (sponsored by NRCAN - OEE), Pollution Prevention, Overall Leadership and Individual Leadership. The awards will be presented after the close of the Green Health Care Session.

Another integral part of the Convention is the Green Lane that

features exhibitors whose products or services offer a clear environmental benefit to hospitals, such as those that improve energy efficiency, reduce resource consumption and waste production, prevent pollution, or reduce the use of toxic substances. The Green Lane can be found in the 1700 aisle on the convention floor, with additional "green" companies located in the 1800 aisle.



## GREEN ROOFS QUALIFY FOR ENERGY EFFICIENCY FUNDING

Organizations that are considering planting vegetation on top of their buildings could receive help from the federal government. Under existing energy efficiency funding guidelines, 'green-roof technology' is considered an eligible measure.

"Green-roof technology has been proven to be effective in making buildings more energy-efficient, while at the same time helping create healthier and more beautiful communities," said the Honourable John Godfrey, Parliamentary Secretary to the Prime Minister with Special Emphasis on Cities, on behalf of the Honourable R. John Efford, Minister of Natural Resources Canada (NRCan). He made

the announcement at the Conference of the Reducers. "We hope our funding encourages building owners to invest in this measure and help individuals do their part to take on the One-Tonne Challenge and reduce greenhouse gas emissions."

The programs, offered through NRCan's Office of Energy Efficiency, include the Energy Innovators Initiative (EII), the Commercial Building Incentive Program (CBIP) and the Industrial Building Incentive Program (IBIP). They apply to new building designs, retrofit planning and retrofit implementation in facilities such as hotels, schools and other large buildings. Incentives are based on energy-consumption savings. Green-roof technology refers to a complex system of root-repellent and waterproof membranes, lightweight growing media, drainage layers and plants which rest directly on the rooftops. It does not include potted plants. The benefits include savings on energy for heating and cooling, decreased roof maintenance, sound insulation and aesthetic appeal. These benefits are greatest in the summer and most cost-effective in buildings with high air-conditioning costs.

Although considered a new concept in Canada, green roofs have been used extensively in Europe for more than a decade. More than 10 percent of flat roofs in Germany contain green-roof infrastructure.

The EII offers up to 50 percent of retrofit planning costs and up to 25 percent of retrofit implementation costs, based on energy savings, in commercial and institutional buildings. CBIP and IBIP offer funding for new building designs that use at least 25 percent less energy compared to similar buildings. To maximize funding, projects should include multiple energy-saving measures. Information on these programs can be found at [www.oee.nrcan.gc.ca/ici/english/home.cfm](http://www.oee.nrcan.gc.ca/ici/english/home.cfm).

Funding for these initiatives was previously announced, and provided for in the March 2004 federal budget. The Government of Canada's approach to climate change is focused on making the right choices for Canada. This will ensure that the actions taken contribute to the long-term goals of building a sustainable economy for the 21st century, a healthier environment and strong communities, while affirming Canada's place in the world.

[source: [www.nrcan-rncan.gc.ca/media/newsreleases/2004/200423\\_e.htm](http://www.nrcan-rncan.gc.ca/media/newsreleases/2004/200423_e.htm)]

## White Spruce Trees Remind Staff of Energy Commitment



Lakeridge Health is one of the largest hospital networks in Ontario delivering health care to more than 500,000 people in rural and urban communities through four hospitals located east of Toronto in Bowmanville, Oshawa, Port Perry and Whitby.

Their commitment to the more than 1,200 individuals they serve each day goes beyond that of traditional health service providers and extends to being conscientious stewards of the environments in which they operate. By helping to improve the environmental standards in each community, Lakeridge Health is clearly showing their support for health care's underlying tenet of 'doing no harm'.

In the fall of 2003, Lakeridge took on the greenhouse gas reduction challenge by embracing an energy awareness campaign and according to their Energy Awareness Task Force chairman, Mel Green, "the hard work is paying off". A review of their hydro bills for October and November 2003 showed a decrease of about 97,000 Kilowatt hours over the same period in 2002. This equates to about \$7,000 in savings and when you factor in such things as the addition of a new CT Scan unit in Bowmanville and that the exterior walls of the Oshawa site were open because of construction, the savings actually become much higher.

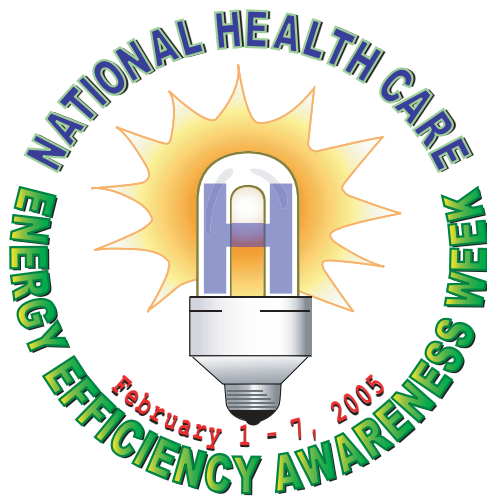
Throughout the past few months Lakeridge has deployed a number of initiatives to spread the energy efficiency message including the use of tent cards, Post-it notes, posters, display boards and the development of an energy efficiency mascot, *Les N.R.G.* whose likeness has been made into embroidered stick-ons appearing on identification cards, computer monitors, etc. *Les* has been getting a lot of questions and comments about the programme and energy efficiency from staff through both his telephone number and e-mail address. Part of any sound awareness campaign is making communication between staff and awareness members simple and easy.

Contests featuring energy-themed prizes such as weatherstripping, caulking and compact fluorescent bulbs have also been used to get staff involved in the energy efficiency/greenhouse gas reduction initiative. Many of the prizes have been donated by Lakeridge's many suppliers.

This spring Lakeridge purchased white spruce tree seedlings for staff to take home as a reminder of their commitment to energy conservation and awareness at work and at home. Green is extremely pleased with the response from all involved.

According to him "the positive response we received was overwhelming, beyond our expectations. We've passed out things like t-shirts and mugs for various promos in the past but this was by far the best received and acknowledged from all levels of staff."

To learn more about the Lakeridge commitment to environmental stewardship, contact Mel Green - [mgreen@lakeridgehealth.on.ca](mailto:mgreen@lakeridgehealth.on.ca)



February 1-7, 2005

## National Health Care Energy Efficiency Awareness Week

Downloadable resources are available at:

[www.cchse.org/oea/awareness.htm](http://www.cchse.org/oea/awareness.htm)

## Training Pays Dividends *Cont'd from page 1*

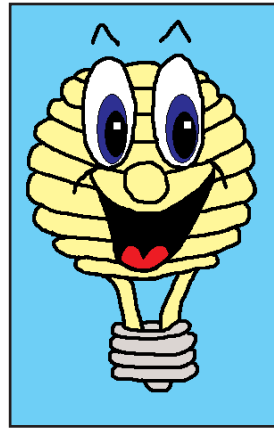
Proposed projects for the next three years include: steam trap replacement, instantaneous domestic hot water heaters for laundry operation, energy efficient chillers, lighting replacement, Energy Management control system, more efficient air compressors and many other similar projects. The payback on these projects varies from three months to three years.

Natural Resources Canada staff, in particular Ann Martineau, program officer has been a big help in getting our EMP approved under Natural Resources Canada's ERA (3) incentive program in May 2004 and PCHA qualifies for a contribution of \$187,000. We are currently finalizing a formal contribution agreement and should be completed by mid July, 2004.

The Pictou County Health Authority was legislated in January 2001 by the Government of Nova Scotia and is one of nine health authorities in the province. The Pictou County Health Authority is responsible for delivering health care services to the 48,000 residents of Pictou County as well as regional programs to the larger population of north-eastern Nova Scotia. Services and programs are delivered through the Aberdeen Hospital in New Glasgow, Sutherland Harris Memorial Hospital in Pictou, Addiction Services, Mental Health Services and Public Health Services.

## BIRTH ANNOUNCEMENT

### LESTER Born at Hotel-Dieu Grace Hospital



Hi everyone, my name is **Lester** and I'm the new "energy saving" mascot at Hotel-Dieu Grace Hospital in Windsor, Ontario.

I look a little funny because I'm a new "Compact Fluorescent Lamp". Did you know that I only use about one-quarter the energy that older types of light bulbs use to give you the same amount of light? WOW, that's real energy savings!

I have been asked to show everyone just how important it is for us to save energy. This is a good thing because it not only saves money; it also makes our planet a cleaner, and healthier place to live, by reducing pollution. In fact, my name says it all. Lester means:

### Let Everyone Strive Towards Energy Reductions

Cool name, huh? But you can call me just plain old *LESS*. Just imagine all the things we could do to save energy. We could all help just by turning things off when we don't need them. Things such as lights, and computers. We can also help by lowering thermostats for heating and air conditioning especially when we go home at night. Even ideas like closing windows, blinds and curtains can all help to save precious energy. How about using the elevator a little *LESS*? It's better for you too!

Say, do you have an idea that we could use to save energy at Hotel-Dieu Grace Hospital? I hope so. If you do, could you please send me your suggestions? You can reach me at: [lester@hdgh.org](mailto:lester@hdgh.org)

Remember, every little bit helps. I hope to hear from you soon. And thanks for using *LESS*.

## Distributed Energy for Hospitals

### Workshop

September 29th, 2004

Toronto Board of Trade - 4th Floor  
First Canadian Place

Distributed Energy (cogeneration) can provide hospitals with an economically viable solution to help manage future electricity and heating requirements.

Learn about the energy efficiencies and cost benefits to be achieved through combined heat and power (CHP) in this practical and informative Ontario Hospital Association workshop.

Guest speakers from Ontario Ministry of Energy and Environment Canada will discuss Ontario's evolving electricity market.

Details: Brian Shields at 416-205-1455 or [bshields@oha.com](mailto:bshields@oha.com)

**Turning Energy Dollars into Health Care Dollars ... for a Healthier Planet**

## Customized Energy Management Workshop

Regina General Hospital

NOV 15, 2004

Monitoring & Tracking and Awareness Campaigns

\$205 + gst

For information contact:  
Johanne Renaud  
1-613-996-6585 or  
jrenaud@nrca.gc.ca

## Savings at Home

The Ontario government plans to introduce legislation to expand the current Retail Sales Tax (RST) rebate for solar energy systems to wind energy systems, micro-hydroelectric systems and geothermal heating/cooling systems installed in residential premises.

Rebate would be available for qualifying alternative energy systems purchased on or after March 28, 2003 and on or before November 25, 2007.

For further details contact Ontario Ministry of Finance, Retail Sales Tax Branch

(Source: May 2004 Ontario Budget Highlights, Info Notice: ISBN 0-7794-6343-9)

*"Canadians would rather have clean air than more puffers and respirators."*

*Hon. Carolyn Bennett, MD - Minister of State for Public Health*



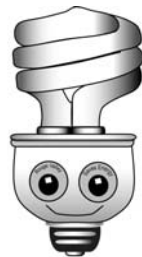
## Le Gros Bon \$ens

Plus de 7000 personnes inscrites, représentant des organisations de partout au Canada, ont pu remarquer une réduction des coûts de production et d'exploitation, une meilleure position concurrentielle, une réduction des émissions de gaz à effet de serre, une augmentation de l'efficacité des opérations et un meilleur environnement de travail, et ce, en suivant les conseils d'efficacité énergétique présentés aux ateliers Le gros bon \$ens de l'Office de l'efficacité énergétique de Ressources naturelles Canada.

composez le 995-2943 ou <http://oe.nrcan.gc.ca/ateliers/>

## Dollars to \$ense

More than 7,000 registrants representing organizations from across Canada have been able to achieve lower operating and production costs, an improved competitive position, reduced greenhouse gas emissions, increased operational efficiency and a better work environment by adopting the energy efficiency savings tips in Dollars to \$ense workshops, presented by NRCan's Office of Energy Efficiency. call 995-2943 or <http://oe.nrcan.gc.ca/workshops/>



*The famous Curly Kilowatt from Rouge Valley Health System*

La fameuse mascotte « Curly Kilowatt » de l'établissement Rouge Valley Health System.

Did you know that compact fluorescent bulbs (CFLs) use approximately 25% less energy than a standard incandescent bulb? A 15-watt CFL produces the same high-quality light as a standard 60-watt incandescent bulb and saves 45-watts for every hour you have the light on!

**Saviez-vous** que les ampoules fluorescentes compactes (AFC) consomment environ 25 p. cent moins d'énergie que les ampoules incandescentes standard? Une ampoule fluorescente compacte (AFC) 15 watts fournit autant de lumière qu'une ampoule incandescente standard 60 watts et vous permet d'économiser 45 watts pour chaque heure d'utilisation !

**The Partnership** is produced by the Energy Efficiency Coordinator

Canadian College of Health Service Executives  
292 Somerset Street West, Ottawa, ON, K2P 0J6  
(613) 756-0435 1-800-363-9056 (ext. 36) Fax (613) 235-5451  
E-mail: [kwaddington@cchse.org](mailto:kwaddington@cchse.org) - <http://www.cchse.org>  
Kent Waddington, Editor

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