



Photographs from the  
**Smart Energy Fair 2004**  
Ottawa, Ontario, Canada  
April 17, 2004



**IEEE**



The  
**IEEE**

IEEE / IEEE Ottawa Electrical Power Symposium

**Smart Energy Fair -- 2004**

**Foire sur l'utilisation efficace de l'énergie**



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IEE / IEEE Ottawa Electrical Power Symposium

**Smart Energy Fair -- 2004**

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*Foire sur l'utilisation efficace*











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April 17<sup>th</sup>, 2004

# ECO Smart Energy Fair



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jkm

**Solar Water**

Val

**Today's C**

Natural Resources - Ressources naturelles



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Fo... l'utilisation efficace de l'éne...







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Conférence sur l'utilisation efficace de l'énergie



  
SCIENCE & TECHNOLOGY  
Canada



Smart Energy:  
Renewable Energy Systems  
for the Homeowner





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**Energy**  
saving  
software **WIZ**

- Reduce energy costs in your energy lab
- Help you decide on the most effective software energy saving strategy
- Support various types of power factor correction devices
- Reduce your carbon footprint & help the planet while saving money on energy
- Help you optimize your facility for the future













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Leading Canadians to Energy Efficiency at Home, at Work and on the Road

**Office de l'efficacité énergétique**

Engager les Canadiens sur la voie de l'efficacité énergétique à la maison, au travail et sur la route

EcoEnergie  
Choix  
d'Ontario

EcoEnergy  
Choices  
Ontario

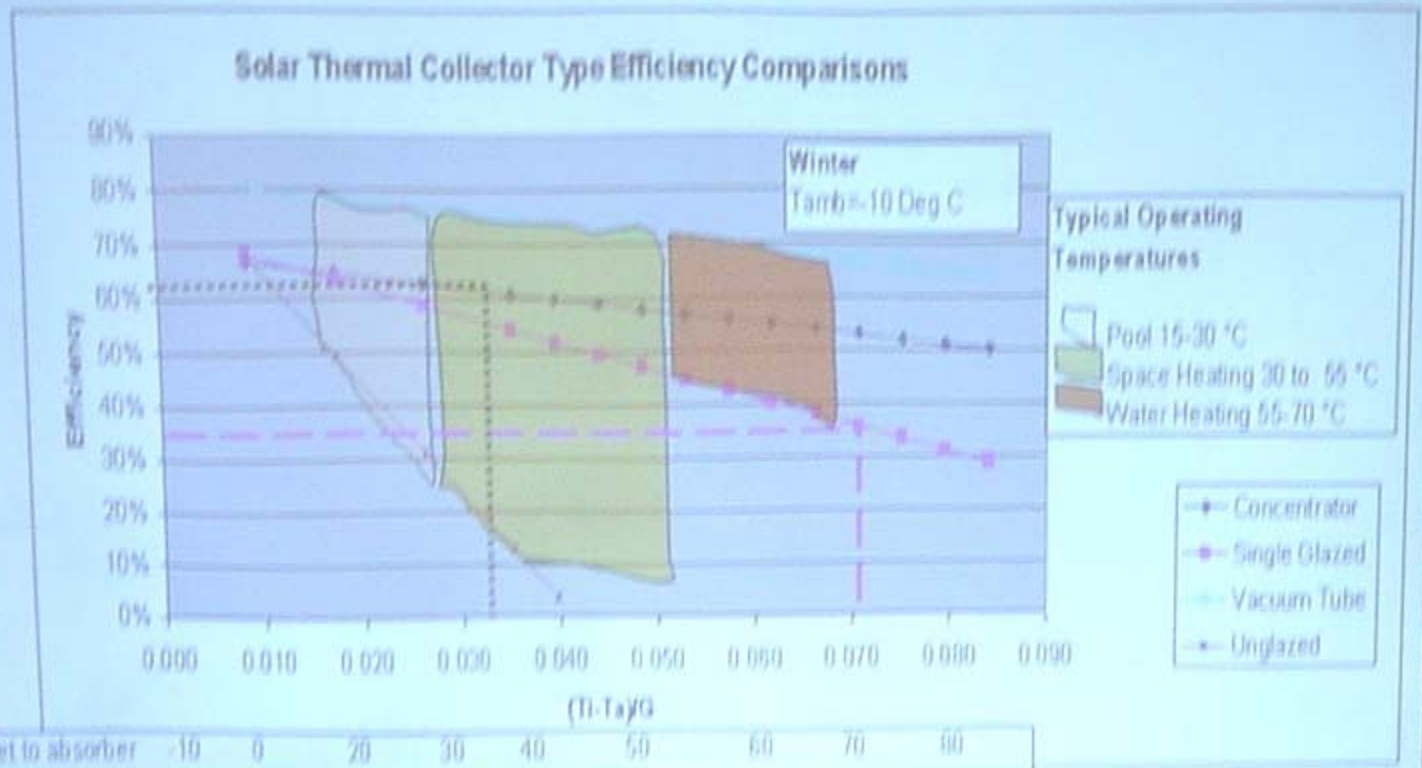








# Winter Operating Efficiency Analysis



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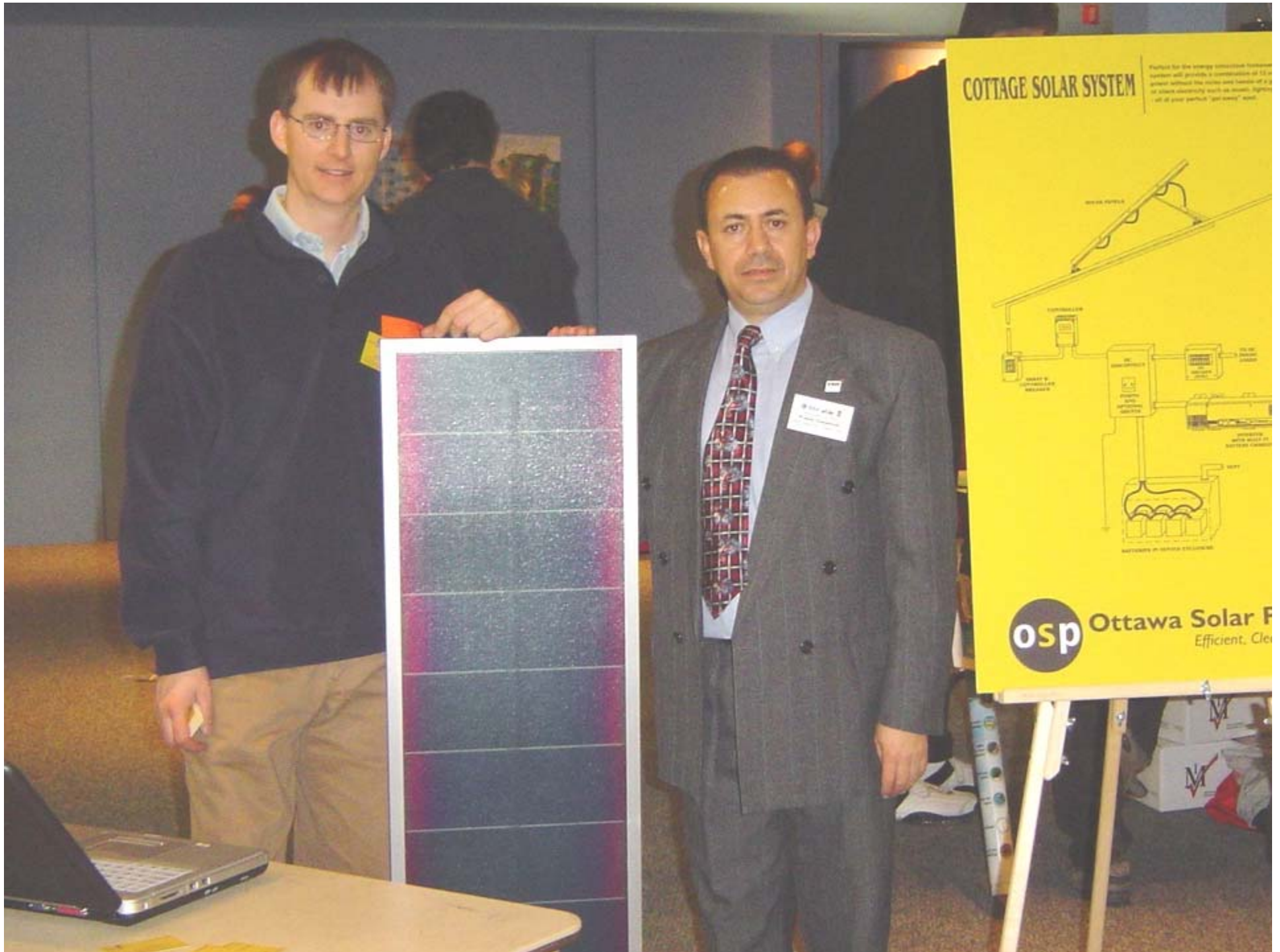
RENEWABLE  
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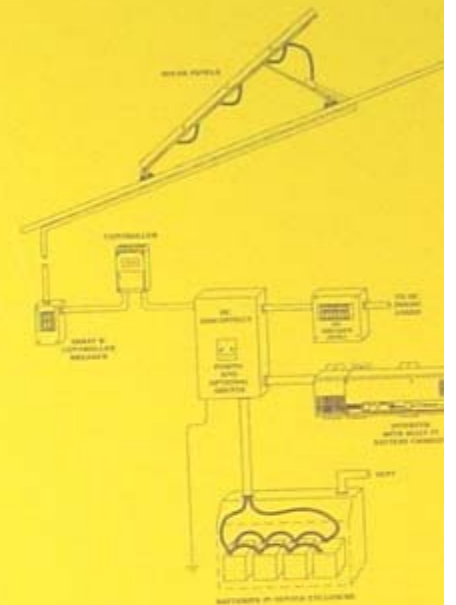
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## COTTAGE SOLAR SYSTEM

Multiple low-voltage solar systems will provide a combination of 120V AC power without the need for a transformer or a lot of other electricity such as power, lighting, all of your perfect "get away" needs.



**osp** Ottawa Solar Power  
Efficient. Clean.







Natural Resources  
Canada

Ressources naturelles  
Canada

Canada

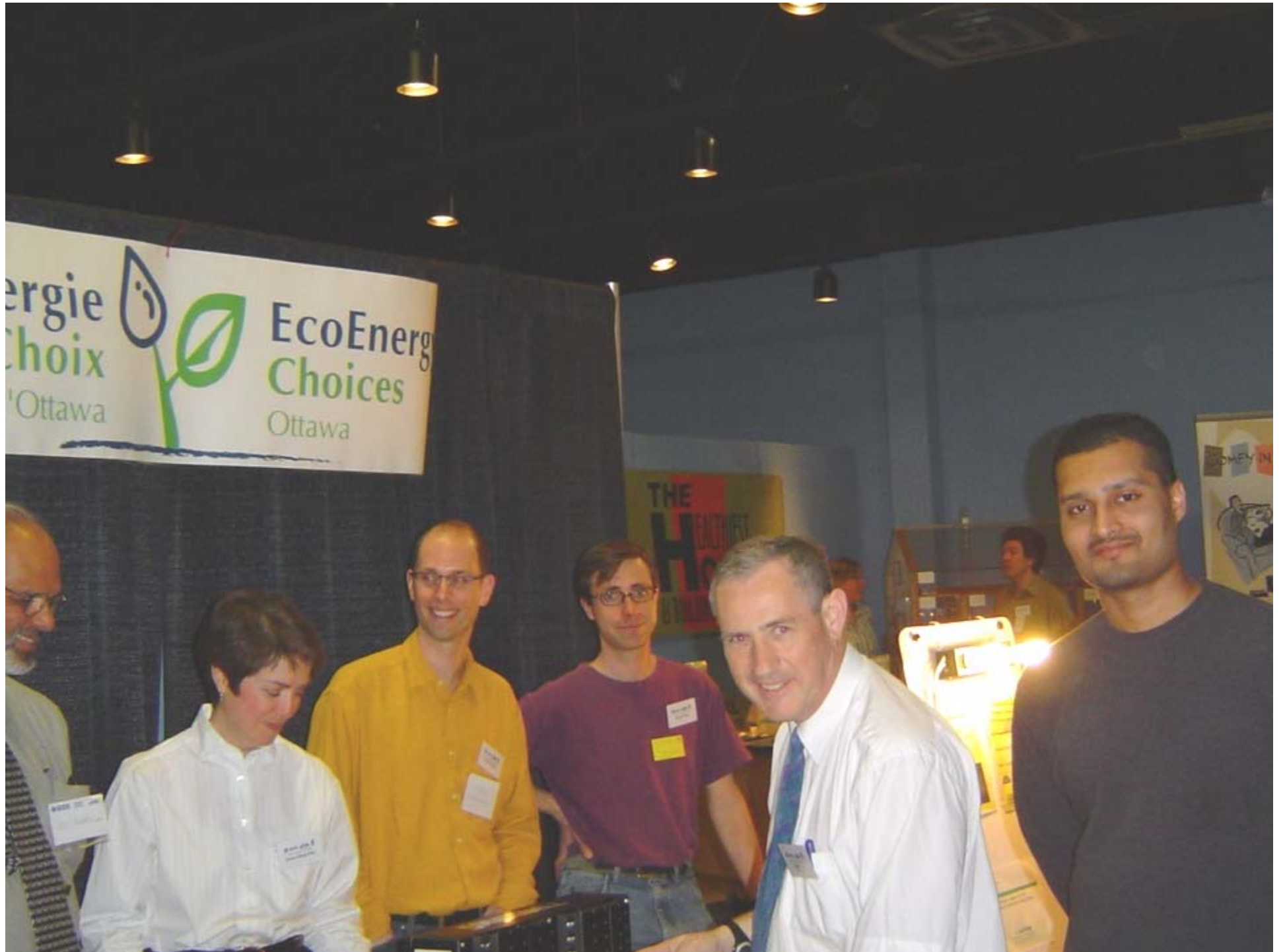
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*Engager les Canadiens sur la voie de  
l'efficacité énergétique à la maison,  
au travail et sur la route*







# COMFY IN YOUR OWN HOME?



It's sweating up on you?  
Cold rooms or rather how high the heat is set?



**Is your house breathing properly?**  
Customize air your windows?  
Are there on your roof?  
Feeling stuff?

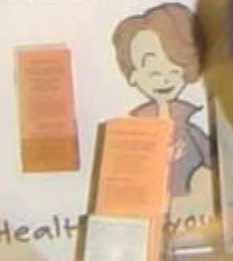


**Are you and your family breathing properly?**  
Musty smell when you enter?  
Molds on walls?  
Faint or strong odors?



## Our Home Comfort Services

- Lower utility bills and better indoor air quality
- Computerized test measures ventilation levels
- Customized report prioritizes energy services
- Low cost, high returns
- Independent advice from a non-profit



## Healthier you

Partnering with leading industry partners, including the U.S. Green Building Council (USGBC), to reduce CO2 emissions and improve the health of our homes.





**THE**  
**H** **HEALTHIEST**  
**HOME**  
& BUILDING PRODUCTS

**NATURAL**  
PAINTS & STAIN

**F** **FLOORING**











**Solar Collectors in Many Directions**

Collector facing	South
Electric savings 10th year	56.7%
Greenhouse gas reduction June 1, 2004	3.3

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Utilisation efficace de l'énergie

EcoEnergie  EcoEnergie  
Choices  Choices  
of Energy  Choices



ectors in Many

<u>V, SE</u>	<u>W, E</u>	<u>South, 45deg tilt</u>
50	\$580	\$710
	2.8	3.5



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Energy  
solutions

# Solar Site Assessment



for partly shaded homes

Assess best collector site & direction  
Contractor uses Solar Pathfinder



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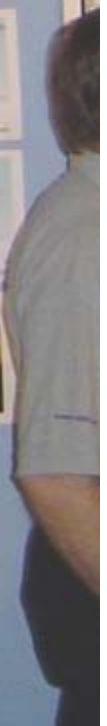
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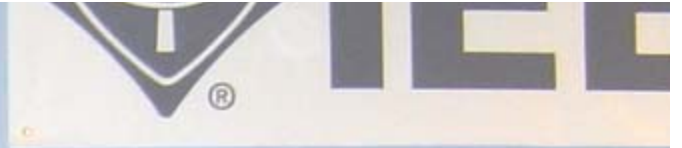
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ENCY













































### THE POWER SYSTEM

United States Electric Reliability Council

California's Bulk Power System

Electricity Demand

BLM

ELECTRICITY DEMAND







### ENERGY EFFICIENCY

### RENEWABLE ENERGY

### ENERGY AND THE ENVIRONMENT







### ENERGY EFFICIENCY

### RENEWABLE ENERGY

### ENERGY AND THE ENVIRONMENT

#### Distribution of GHG Emissions by Sector, 2000



#### The Kyoto Target



#### Cost Competitiveness of Renewables



#### The Solutions We've Selected



#### Canadian Wind Energy Program



#### Global Trade



#### NE systems come on line Off Grid



#### How to Save Energy



#### Addressing the challenge of meeting the needs of the future













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