

# Solar Heats Water

Scenario Planning...an idea to safeguard against rising energy prices

Over the next 20 years, including taxes and other charges, residential electricity bills are projected to rise about 3.5 per cent per year on average. In the short term, however, electricity prices are expected to rise by about 7.9 per cent annually for the next five years. (source: <http://www.energy.gov.on.ca/en/electricity-prices/>)

Many organizations are undertaking scenario planning. One of the scenarios involves the ability to remain price-competitive when energy prices rise dramatically. There will be consequences on all aspects of life...work, living, recreation...think about business and ask:

- impact on marketshare? impact on marketing costs? impact on product pricing?
- what about operating costs, both in the plant and in the office?
- will customers switch to your products if you were more energy efficient?
- what would happen to operational effectiveness if you were 10% more energy efficient?

Installing automated building systems and mechanical retrofits and energy retrofits can all contribute to reducing energy demand. Your investments will contribute to savings. There are many supportive government incentives to help make the switch to solar energy and specific energy and lighting retrofits. New construction and restorative actions include designing green buildings capable of producing their own power.

On the issue of automation, Beach 1 Electric Ltd. is helping customers save on energy costs through process automation....

Whatever your plant facility is doing, there is a process from start to finish that uses some degree of automation. Factories have production lines. Factories have assembly lines. Input, process and output.

The professionals at Beach 1 Electric Ltd. program software to interface with controllers to tell each piece of equipment what to do, how to do it, when to do it and do all these steps in a safe manner.

Turning the motors on and off, measuring material flows, limiting switches to operate between pre-determined tolerances (and/or set targets or ranges) and in the right order. In order to have the output optimized, the input and the flow rates have to be optimized too. Our automation controls all the motors in the process chain.

Beach 1 Electric automation services run controllers in any process environment. This includes sewage plants, bottling plants, packaging lines, wrapping lines and food processing plants.

Installing solar (PV) modules to harvest solar energy and convert that energy into electrical power for your business is another way to help safeguard your operations against rising energy costs and keep your business competitive.

Whether it is for your office building, industrial location or residence, our process begins by providing you with documentation about how and when your power demand fluctuates. This data is necessary for us to design an array of solar PV modules to meet your needs.

For smaller facilities, the solution will be designed with batteries for storage of electricity and a means of back up power for emergencies to help offset energy costs. Your investment in solar energy equipment will provide you with electricity for your needs. Of course, you can scale it up or down from our design, at any time.

This is one way in which you can safeguard your business against rising energy prices.

Contact Solar Heats Water to arrange a consultation and begin the process of safeguarding your business against the inevitability of rising energy costs.

**Solar Heats Water is a division of Beach 1 Electric Ltd.**

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