

Revolution 70/30 Rule for Utilities

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ELECTROMOTION ENERGY CORPORATION's proprietary combined cooling heat and power (CCHP) technology replaces the conventional heating, cooling and hot water systems at the home demand site with a single integrated unit: the Revolution™.

The ElectroMotion™ Revolution™ generates surplus electricity during heating cycles which supplies neighboring demand sites with locally generated electricity, shaving peak demand and expensive ratchet fees and distribution costs.

Startling Grid Statistics

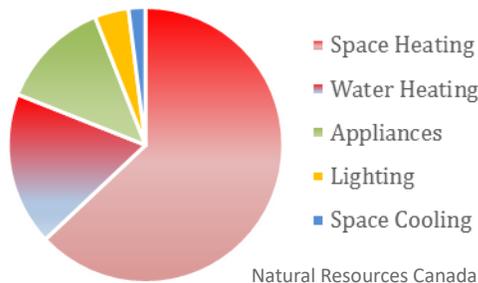
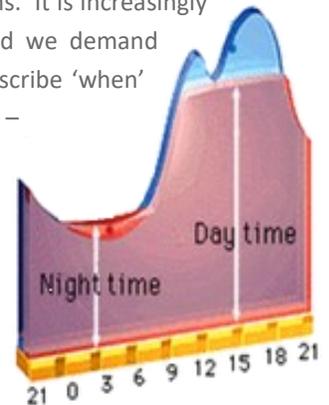
- ◇ *Peak Ratchet Fees have increased annually 30% - 1,200% over 10 years
- ◇ *Some 8 Million budgeted for capacity distribution upgrades over next decade
- ◇ *15 Million projected Ratchet Fees over the next decade
- ◇ Electrical rates and infrastructure costs are widely expected to outpace natural gas fuel and distribution costs
- ◇ Revolution™ generated electricity is less expensive, is at higher efficiency, has no line loss versus grid-supplied electricity

The Peak Demand Problem...

Peak energy demand and associated infrastructure costs with delivering electricity are chronic worldwide financial and resource problems. It is increasingly difficult to manage our infrastructure as it ages and we demand more from it. The term 'Peak Demand' is used to describe 'when' everyone collaborates for their energy consumption – another way to call it is 'energy rush hour traffic'.

What Drives Peak Demand?

Surprisingly, electricity is NOT the energy we use and consume the most—it is heat energy! The major driver for our electrical consumption and grid Peak Demand, as nothing happens without electricity!



Some 60% of home energy consumed is for space heat—with hot water about 18%. More than 70% of our energy needs relate to heat, but electricity globally is mostly generated using heat methods.

The Revolution™ uses small amounts of fuel (e.g. NG or propane) to generate surplus electricity during heating cycles which is then shared with neighboring demand sites with locally generated electricity. Generating and then consuming the electricity locally dramatically reduces peak demand and expensive ratchet fees and distribution costs—think of the electricity as a byproduct of heating!

Peak Grid Inefficiency...

Like our bridges and highways, the majority of our energy consumption is 'jammed' into short 'peak' hourly and seasonal periods. The electrical infrastructure generation & distribution capacity must therefore be 'overbuilt' to manage these peak periods, making it underutilized, expensive to build, maintain and is unsustainable.



*A local B.C. electric distribution utility

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Peak Grid Inefficiency Continued...

Wherever there are electrical generation plants, distribution lines, substations and local neighbourhood transformers—there is electrical energy being lost as heat to the atmosphere.

Our current centralized generation and distribution model for electricity accounts for up to 2/3 of the energy used being lost as heat energy before it reaches the demand site—your home. This thermal image of a *local electric substation* 'glowing' at 50°C demonstrates these incredible losses—losses which drive Peak Ratchet Fees and our rising electrical rates!



Revolutionary Results...

The core genius of the Revolution™ is **when** the Revolution™ generates the **type** of energy **where** it's needed—at your home during peak demand times! This energy-where-it-is-used-when-it-is-needed model reduces peak demand infrastructure loss, capacity requirements—and costs.

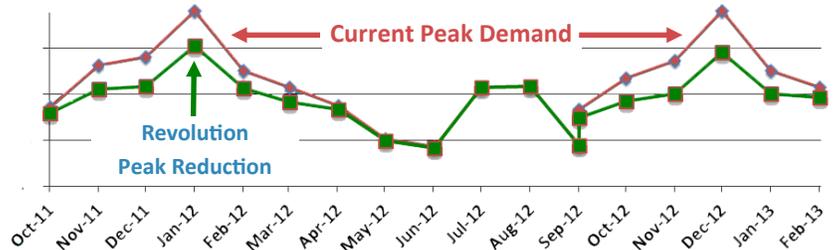
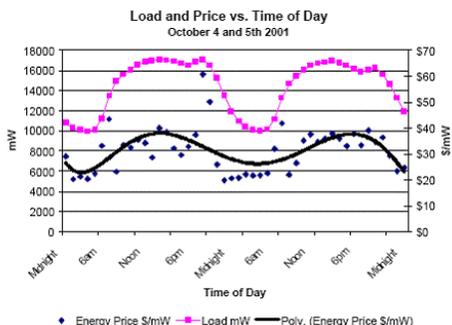
Dramatic effect upon peak demand and optimizing the distribution system is realized when deploying Revolutions™ throughout the grid as shown below—saving some 20 Million dollars in Ratchet Fees over 10 years.

The Revolution Revenue Model...

Deploying Revolution™ units in conjunction with our Usage Service Plan™ and Energy EcoSystem™ across your utility grid will **increase** your revenues and energy security; **reduce** your operating costs and greenhouse gas emissions—**without raising** your rates or capital expense!

In addition, you will have the ability to implement sophisticated pricing structures along with 'smart grid' and 'green' technologies—giving you unprecedented advantage and control over your current and future energy needs and challenges.

Contact us today to discuss how we can help you.



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