

Community Energy – QUEST panel



Michel Losier, Director of Customer and Community Engagement
November 24, 2015



Énergie NB Power

100% renewable by 2020? Walmart



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Microsoft – Janous (An Integrated Future...)

"Distributed generation is not something that is an option for us," Janous said. "It is a part of our core infrastructure."

"The next 100 years will certainly not be as dominated by central station power as the last 100 years; however, I don't believe distributed generation will negate the need for the centralized power grid," Janous said.

Grid-connected generation can leverage the "network effect," Janous said, taking advantage of producers and consumers working together.

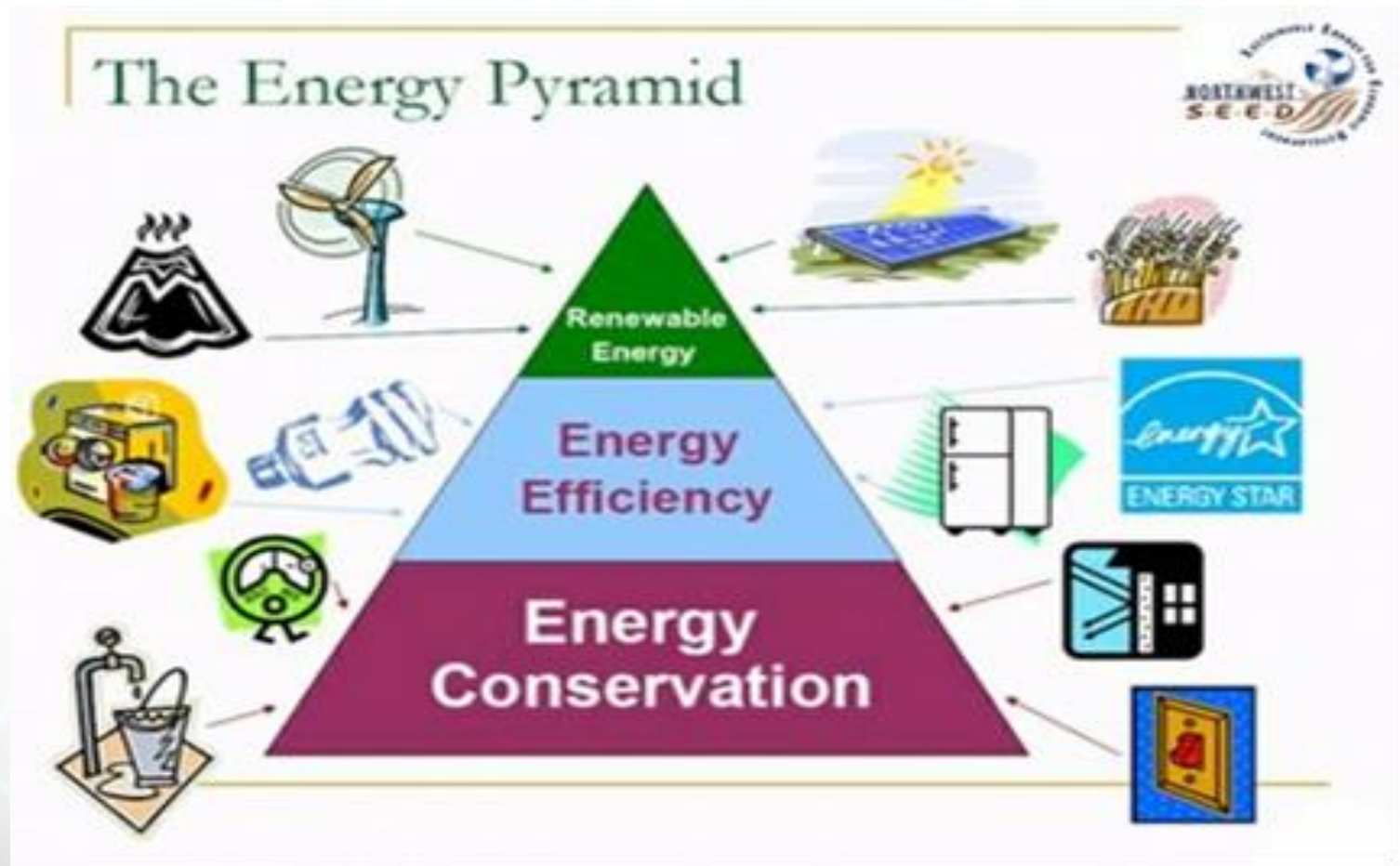
"Rather than the future being centralized or distributed, I really believe the future will be integrated."

Utility Dive, September 15, 2014



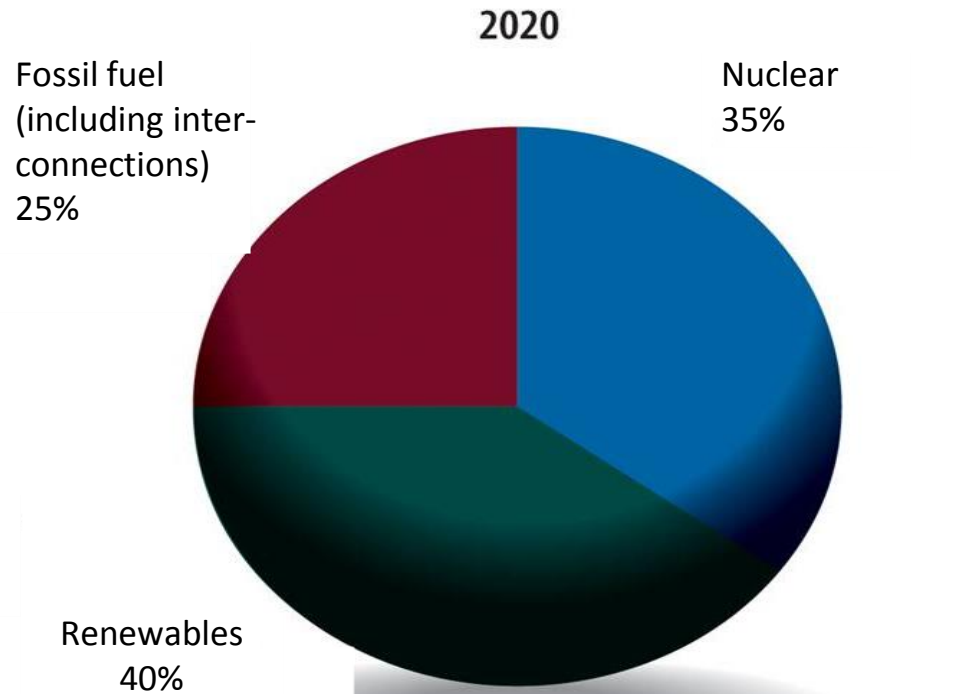
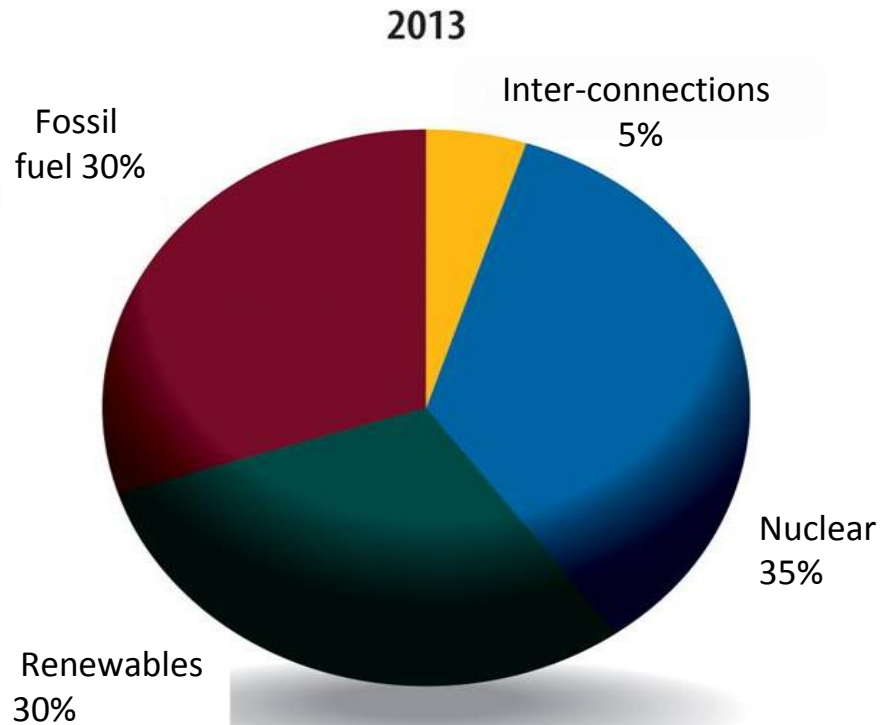
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Covering all the Bases in your Community



Electricity Generation in New Brunswick by Source

NB Electricity Supply by Source

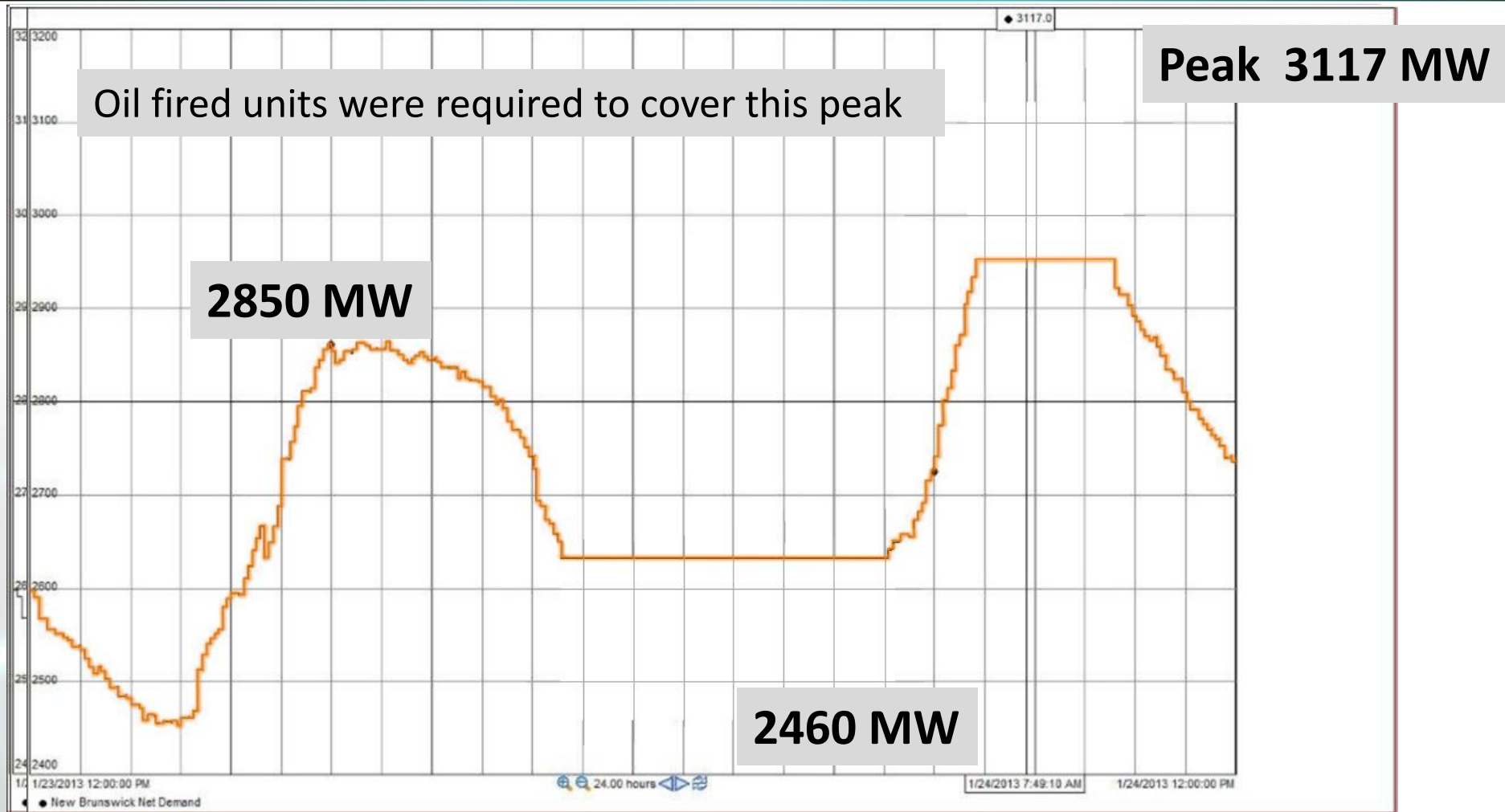


Source: NB Power

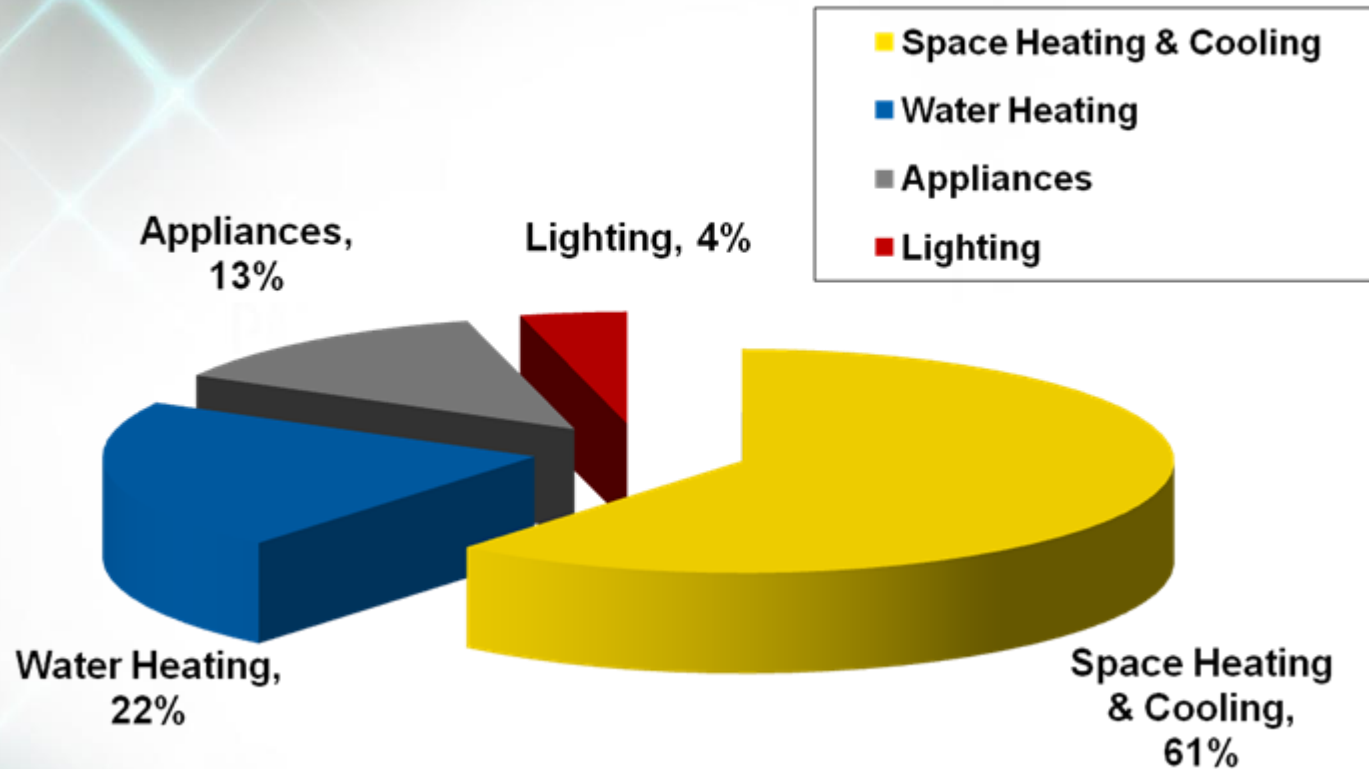


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A bitter cold morning

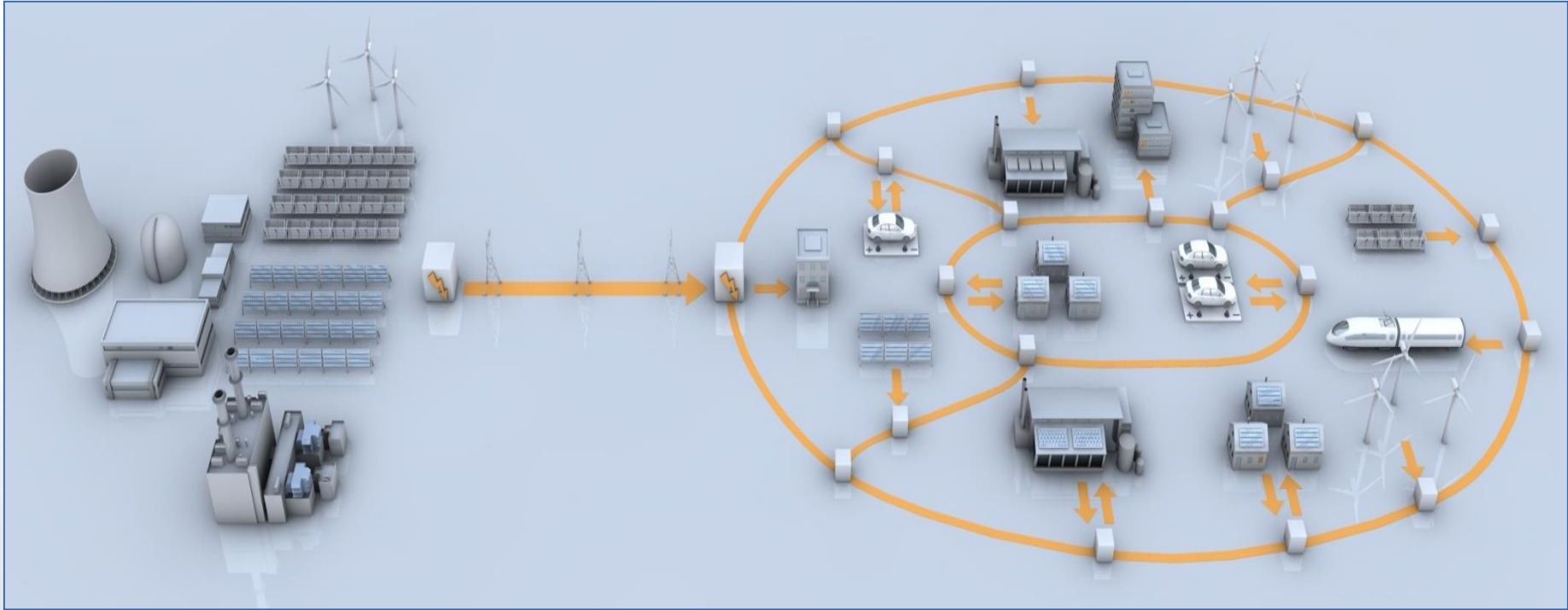


Typical Household Energy Usage – New Brunswick



“Load following Generation”

Bulk generation meets Distributed Energy Resources



Bulk Generation

Traditional Large Generation

Hydro, Nuclear, Fossil, Wind,

“meets”

“meets”

Distributed Energy Resources

Engaged Customers with new technologies

EE, DR, DG, EV's, HAN, WAN



Customers and Communities as Partners



Énergie NB Power

Product Innovation – Customers Evolving

50's and 60's



70's and 80's



2000 to today



Our Customers

A
new Partnership with new
“value-added” solutions

A promotional flyer titled "SAVE Twice!". It features a large yellow "SAVE" and a blue "Twice!" graphic. The flyer lists several energy-saving offers with icons: a light bulb for "SAVE \$3", a shower head for "SAVE \$5", a smart thermostat for "SAVE \$10", a smart light bulb for "SAVE \$4", and a smart plug for "SAVE \$6". It also includes a "SAVE \$15" offer for a smart plug. At the bottom, it says "Visit www.savetwice.ca or call 1.855.205.1118 for a list of participating stores and program details." and features the "Énergie NB Power" and "efficiency NB" logos.

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Game Changers?



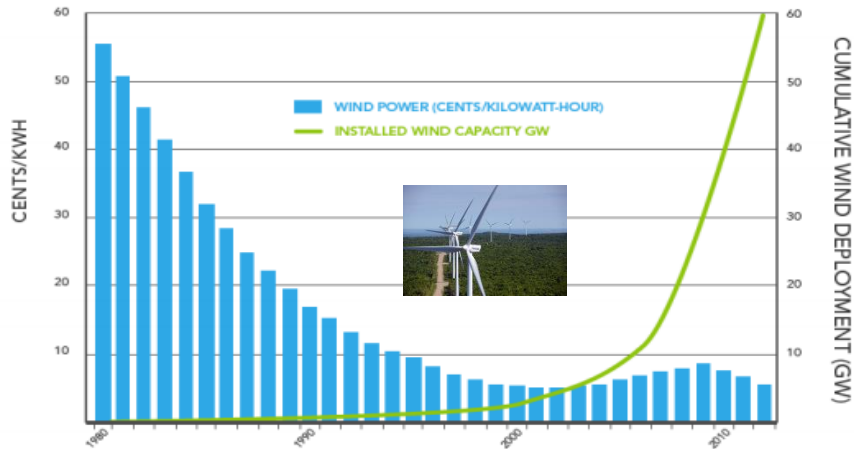
Rooftop Solar

Electric Vehicle or
Mobile Storage?

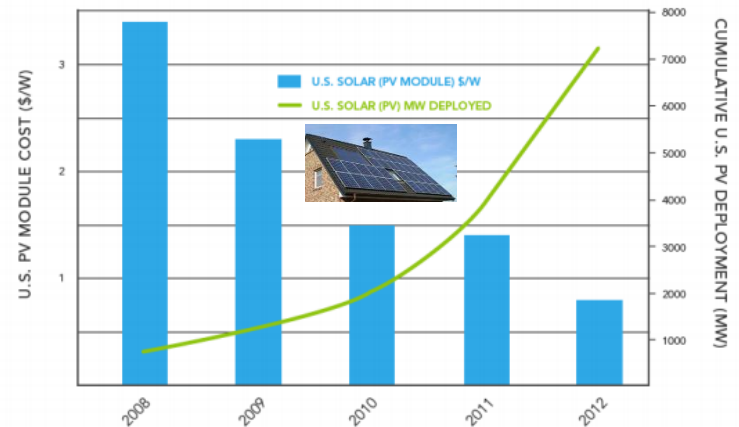


Market Trends

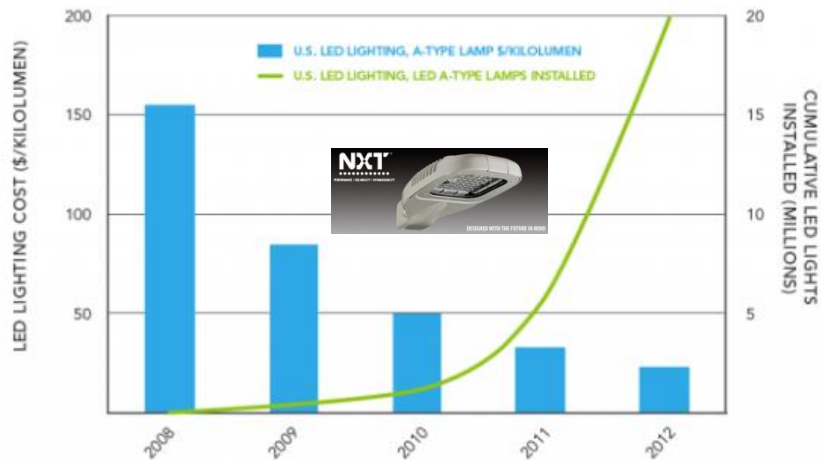
Deployment and Cost for U.S. Land-Based Wind 2008-2012



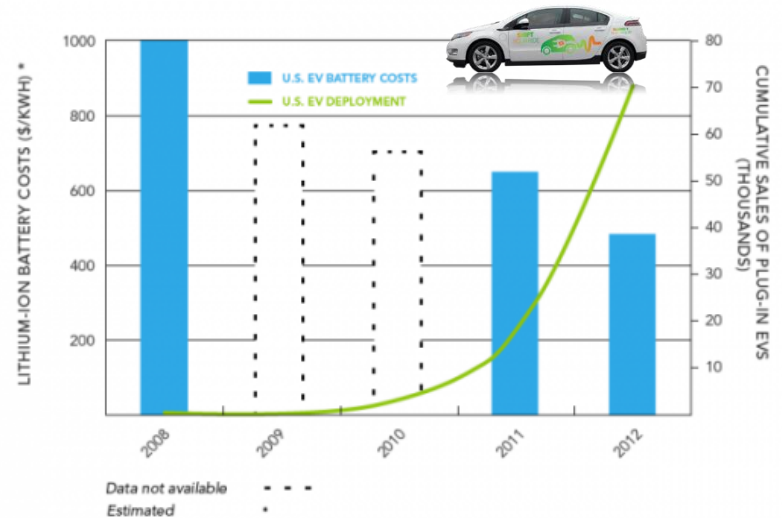
U.S. Deployment and Cost for Solar PV Modules 2008-2012



Deployment and Cost for LED Lights Installed 2008-2012



Deployment and Cost for Electric Vehicles and Batteries* 2008-2012



New players on the scene



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Community Energy Generation “The Prosumer”



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Net Metering Program

Distributed Generation

**Locally Owned Renewable
Energy (Small Scale)**



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