

Building Your Own Electric Bill: How High Can it Go

2010 LIFE Conference

May 18th – 19th, Albany, NY

Honeywell

Session Goal

**Strategies: Making Choices to Reduce Those
"Towering" Electric Bills**

Households Face Many Challenges

- **High fuel bills can mean loss of other goods and services**
- **Homes often have unsolved health and safety problems**
- **Property maintenance issues exist and households may be inexperienced or lack skills necessary to address them**

Households Face Many Challenges

- **Age-related problems/disabilities exist**
- **Lack of income creates other “Stresses”**
- **Low income households spend a larger portion of their income on energy costs.**

What makes up an Electric Bill?

GreenUp
Renewable energy solutions

Now you have the choice to make an important difference for the environment—sign up for GreenUp today!

Support the production of renewable energy, such as solar, wind, biomass and small hydro resources. Renewable energy sources offset the impact of electricity production from coal, oil and nuclear energy in our region, supporting a cleaner environment for all.

For more information, please go to www.nationalgrid.com/greenup

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Electricity Delivery

Basic service charge	1.00
Bill assurance charge	0.00
Delivery charge	0.00
Transition charge	0.00
NY state assessment	0.00
SBC/APS charge	0.00
Subtotal Electricity Delivery	1.00

Electricity Supply Charge

Supply charge	0.00
Merchant function charge	0.00
Subtotal Electricity Supply	0.00

Electricity Taxes and Surcharges

Taxes on delivery charges	0.00
County sales tax	0.00
Subtotal Electricity Taxes and Surcharges	0.00

Total Electricity Cost

Gas Service - Residential Gas Rate - 08701H Sales

Meter Number	Current Meter Read Date	Current Meter Read Reading	Previous Meter Read Date	Previous Meter Read Reading
05320415	06/22/10	3254	03/25/10	5132

Type of read: A - Actual, E - Estimate, C - Customer and N - No r.

Natural Gas Delivery Charges

Natural gas used (ccf)	122
Energy content factor	x 1.032200
Natural gas used (therms)	125.9
Basic service charge	3.0 therm @ 0.00
Bill assurance charge	47.0 therm @ 0.378
Included in Basic Service chg	75.9 therm @ 0.174
Delivery charge	26.710 therm @ 0.1190874
Weather adjustment	125.9 therm @ 0.0015
Research & development charge	125.9 therm @ 0.0523706
Transition surcharge	3.0 therm @ 0.283
NY state assessment	3.0 therm @ 0.003
Rate change - Mar	3.0 therm @ 0.0091

Supply Services

Electricity Supply	0.04921 x 220 kWh	10.83
Tariff Surcharge	1.0101 %	0.11
Total Electricity Supply		\$ 10.94

Gas Supply

Gas Supply	0.61889448 x 9 therms	5.57
Merchant Function	0.03279679 x 9 therms	0.30
Tariff Surcharge	1.0101 %	0.06
Total Gas Supply		\$ 5.93

Total Delivery Services

Total Gas Delivery	\$ 20.77
Total Delivery Services	\$ 56.12

Service (not including usage)

Adjustment	0.048877 x 220 kWh	10.78
Assessment	0.02295 x 220 kWh	5.05
Adj	0.00307 x 220 kWh	0.68
	0.00582103 x 220 kWh	1.28
	0.00141 x 220 kWh	0.31
	3.09278 %	1.06
Total Electricity Delivery		\$ 33.35

Total Billing Services

Total Billing Services	\$ 5.53
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Handwritten Calculations:

$$\begin{array}{r} 33.35 \\ 10.94 \\ \hline 16.29 \\ 16.21 \\ \hline 0.08 \end{array}$$

For Your Information

The following charges are already included in the Delivery Services portion of your bill. If you were to choose an alternate supplier, billing charges may be included, in addition to that supplier's charges.

Billing Services

Billing	0.00
Total Billing Services	0.00

Subtotal Natural Gas Delivery

Subtotal Natural Gas Delivery	125.9 therm @ 0.00	0.00
Bill assurance charge	3.0 therm @ 0.17417	0.52
Delivery charge for next - Jun	4.1 therm @ 0.2081	0.85
Delivery charge for next - Jul	10.1 therm @ 0.00338	0.34
SBC charge	10.1 therm @ 0.00338	0.34
Subtotal Natural Gas Delivery		1.05

Natural Gas Supply Charges

Supply charge - June	4.0 therm @ 0.260212	1.04
Supply charge - July	6.1 therm @ 0.260212	1.59
Merchant funct chg - June	4.0 therm @ 0.041538	0.17
Merchant funct chg - July	6.1 therm @ 0.041538	0.25

What makes up an Electric Bill?

💡 **Electricity Service - Residential** Service from: 03/25/10 - 04/27/10
Electricity Rate - 12001 NYSEG Supply Service PoD ID: N01000017129024

Meter Number	Current Meter Read Date	Current Meter Read Reading	Previous Meter Read Date	Previous Meter Read Reading	Reading Difference	Billed Usage	Billing Period
43079306	04/27/10	6157 C	03/25/10	5775 C	382	382 kwh	34 days

Type of read: A - Actual, E - Estimate, **C - Customer** and N - No read

Electricity Delivery Charges

Basic service charge						13.11
Bill issuance charge						0.89
Delivery charge	382	kwh	@	0.0347		13.26
Transition charge	382	kwh	@	-0.00819412		-3.13
NY state assessment	382	kwh	@	0.0025		0.96
SBC/RPS charge	382	kwh	@	0.0043		1.64
Subtotal Electricity Delivery						\$26.73

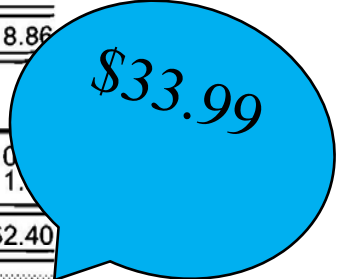
Electricity Supply Charges

Supply charge	382	kwh	@	0.04656027		17.79
Merchant function charge	382	kwh	@	0.0028		1.07
Subtotal Electricity Supply						\$18.86

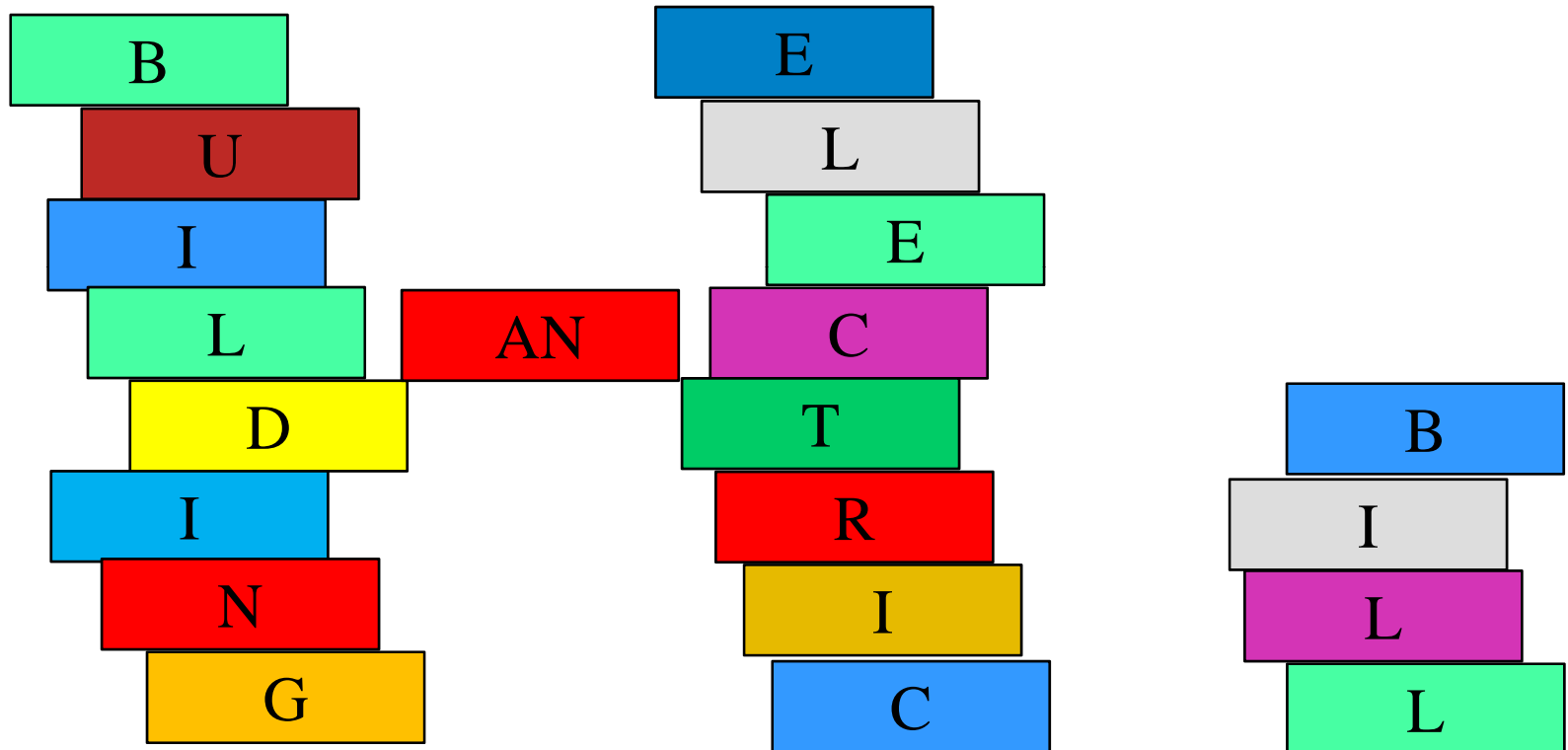
Electricity Taxes and Surcharges

Taxes on delivery charges			@	2.0408%		0.55
County sales tax			@	4.0000%		1.10
Subtotal Electricity Taxes and Surcharges						\$2.40

Total Electricity Cost **\$47.99**



Making Choices



Smart Energy Choices

- Standard oven takes about 10 times the amount of energy as the toaster oven or microwave. Toaster oven and microwave may be similar in wattage – usually 900 – 1400, however the microwave takes less cooking time.
- ✓ When using an oven, bake more than one dish at a time

Smart Energy Choices

Window
Fan

Room Air
Conditioner

Smart Energy Choices

Electric Blanket
(\$5.67/month)

Comforter

Space Heater

Smart Energy Choices

A second older appliance can cost **\$140-\$250** dollars a year to operate. ***Is it worth the expense?***

- ✓ If not, unplug second appliances.
- ✓ If usage is seasonal, consider unplugging for just part of the year.

Smart Energy Choices

Clock Radio

High Definition TV
(HDTV)

Standard
TV

Smart Energy Choices

Oven
Toaster Oven
Microwave Oven

Looking to the Future

Honeywell Utility Solutions

1-800-263-0960

- **Carol Sweeney**
- **Program Manager - EmPower New YorkSM**
- **carol.sweeney@honeywell.com**