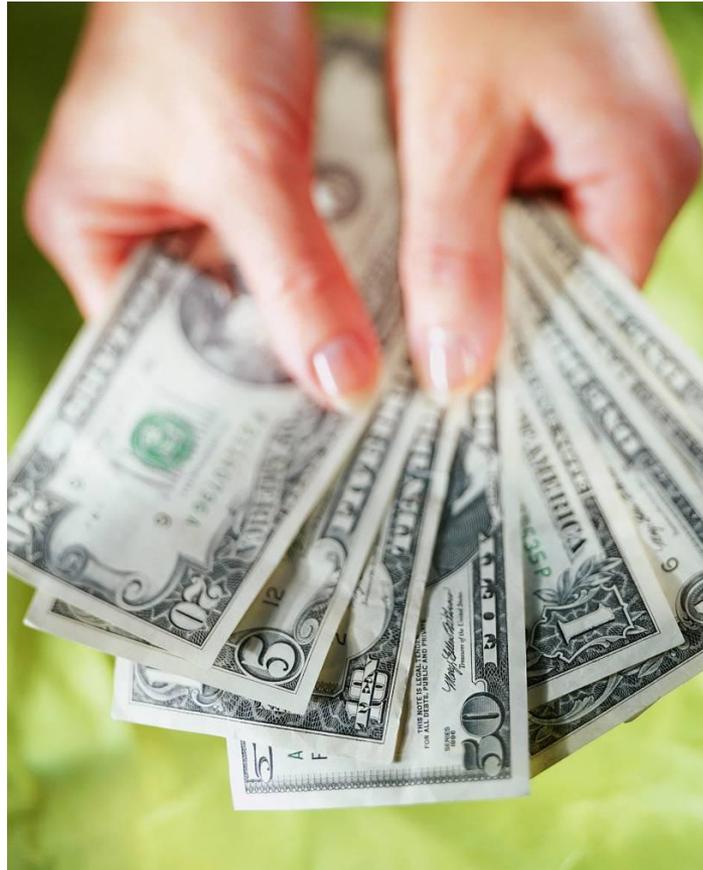


The Importance of Energy Education And How You Can “Empower” Your Customer

2013 LIFE Conferences

Honeywell

Who here wouldn't want an extra \$50 a month?



How Much are you Wasting Each Month?



Impact

Heat or Eat
Comfort
Health
Security

NYSEG
Reliable. Essential.

nationalgrid
www.nationalgrid.com

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, gas and nuclear energy in our region, supporting a cleaner environment for all.

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

Service (not including usage)

Adjustment	0.048877 x 220 kWh	10.78
Assessment	0.02295 x 220 kWh	5.05
	0.00307 x 220 kWh	0.68
v Adj	0.00582103 x 220 kWh	1.28
	0.00141 x 220 kWh	0.31
	3.09278 %	1.06
Total Electricity Delivery		\$ 35.35

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

Electricity Supply

Electricity Supply	0.04921 x 220 kWh	10.83
Tariff Surcharge	1.0101 %	0.30
		0.06
Total Electricity Supply		\$ 16.87

Gas Supply

Gas Supply		5.57
Merchant Function		0.30
Tariff Surcharge		0.06
Total Gas Supply		\$ 6.23

Total Billing Services 5.53

Handwritten Calculation:
35.35
- 10.94

24.41

Another Handwritten Calculation:
16.29
- 16.21

0.08

NYSEG Gas Service - Residential Gas Rate - 08701H Sales

Meter Number	Current Meter Read Date	Current Meter Reading	Previous Meter Read Date	Previous Meter Reading
05220415	04/22/10	5204	03/25/10	5132

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

Natural Gas Delivery Charges

Natural gas used (scf)	122	
Energy content factor	x 1.032200	
Natural gas used (therm)	125.9	
Basic service charge	3.0 therm @	0.00
Bill insurance charge	47.0 therm @	0.378
Included in Basic Service chg	75.8 therm @	0.12
Delivery charge		0.1190874
Delivery charge	26.716 therm @	0.0015
Weather adjustment	125.9 therm @	0.0529706
Research & development charge	125.9 therm @	0.0283
Escrow surcharge	125.9 therm @	0.003
NY state assessment	125.9 therm @	0.0091
Service charge - Mar	96.7 therm @	

Natural Gas Supply Charges

Supply charge - June	4.0 therm @	0.860212
Supply charge - July	6.1 therm @	0.855587
Merchant funct chg - June	4.0 therm @	0.04159
Merchant funct chg - July	6.1 therm @	0.041177

Account Number:
Statement Date:

Service from: 06
PaD ID: RD

Meter Read Reading: 490 A, 10
Reading Difference: 10
Corner and N - No read

Service from: 19 23/1
PaD ID:

Meter Read Reading: 490 A, 10
Reading Difference: 10
Corner and N - No read

0.0227
0.02494
0.01219
0.00517
0.003026

0.04259614

5.2632%
3.0928%

12

10
00
10.1

3.0 therm @ 0.00
3.0 therm @ 0.17417
4.1 therm @ 0.20881
10.1 therm @ 0.00538

Subtotal Natural Gas Delivery

Natural Gas Supply Charges

4.0 therm @ 0.860212
6.1 therm @ 0.855587
4.0 therm @ 0.04159
6.1 therm @ 0.041177

Impact

- **High fuel bills can mean loss of other goods and services**
- **Age-related problems/disabilities exist**
- **Lack of income creates other “Stresses”**
- **Low income households spend a larger portion of their income on energy costs.**

Impact

- Homes often have unsolved health and safety problems



Impact

- **Property maintenance issues exist and households may be inexperienced or lack skills necessary to address them**



Impact



Impact



Impact



Impact

One Compelling Reason

“Babies and toddlers who live in energy insecure households are more likely to:

- **be in poor health;**
- **have a history of hospitalizations;**
- **be at risk for developmental problems, and;**
- **be food insecure”**

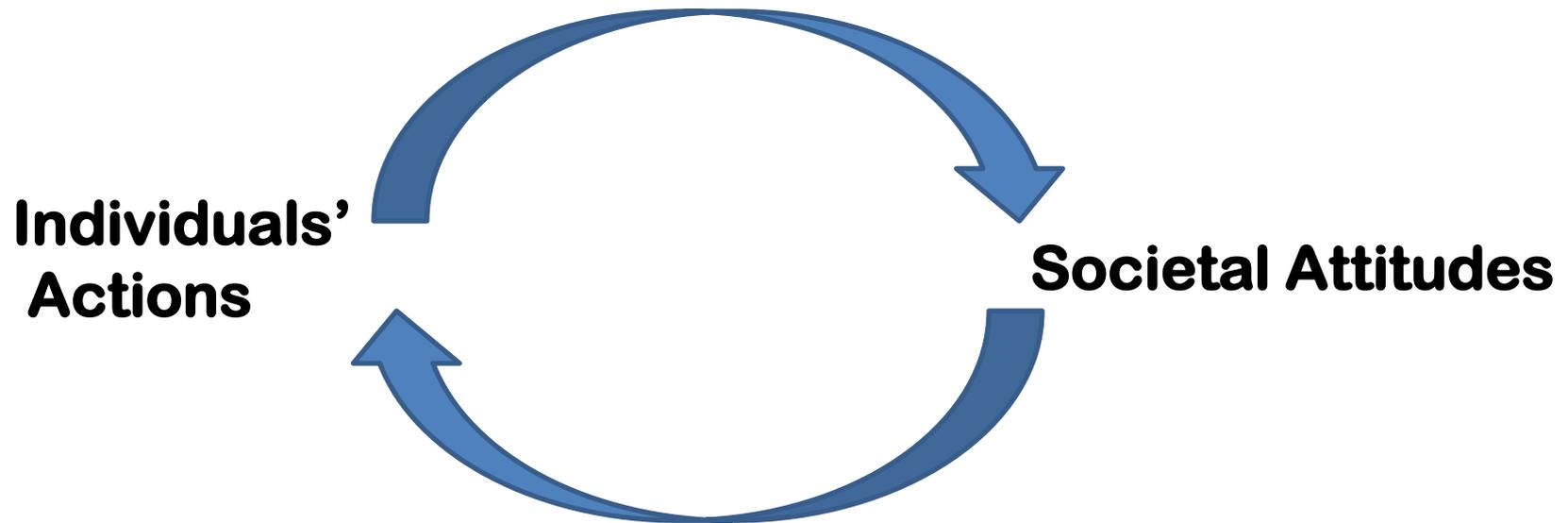
--“Fuel for Our Future” Children’s Sentinel Nutritional Assessment Program in collaboration with Citizen’s Energy Corporation, September 2007

Making Change



Societal Transformation

**Influencing behavioral changes in individuals
by changing the attitudes of the collective
society as a whole**



Societal Transformation

Anti-littering

Seatbelt Use

Anti-smoking

Reusable Shopping Bags

The “How To” Part



The How To Part

Practices

Measures

Turning off Unused Lights

Turning off Unused Lights

Wx Strip Windows & Doors

Use Microwave Instead of Oven

Use Microwave Instead of Oven

CFLs or Now LEDs

Who Will Name Another Practice?

Who Will Name Another Measure?

Something the Home Owner Can Install

The How To Part

Practices

Lower Thermostat



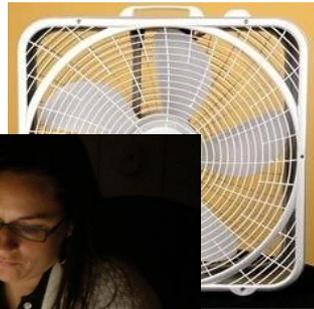
Eliminate Space Heaters



Use Appliances

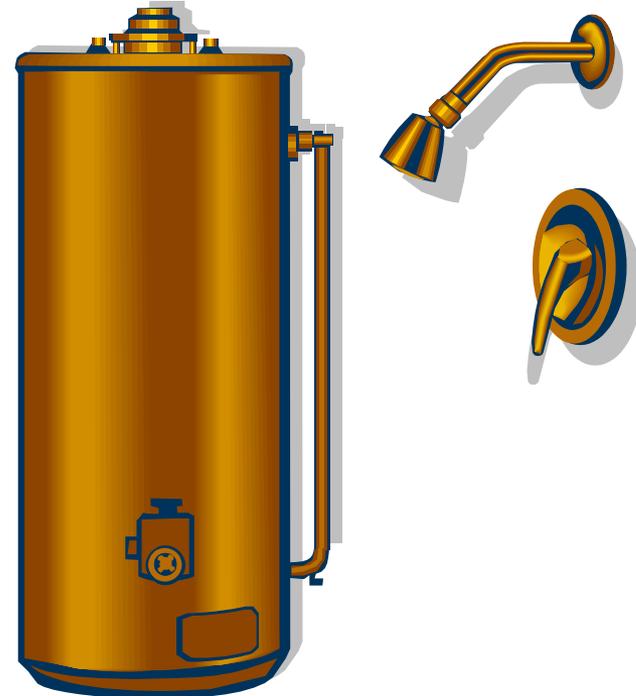


Offer Choices Rather Than “You Should.....”



Smart Energy Choices

Focus on BIG Savings



“Change” You Can Believe In

Eliminating Wasted Energy
Creates Real Income



**Who Wants to Be
an Energy Expert?**

Who Wants to Be an Energy Expert?

I have two 100 watt bulbs in my bedroom; if I replace them with one 20 watt CFL and one 15 watt CFL, how much I am I saving?

A) 165 watts

C) 0 watts

B) 165 kWhs

D) 35 watts

Who Wants to Be an Energy Expert?

If I spent \$1,200 to heat my house last year, and I turn down my thermostat 5 degrees at night, and 5 degrees while at work, how much would I save?

A) \$12.00

C) \$45.00

B) 20 degrees

D) \$120.00

Who Wants to Be an Energy Expert?

How much electric energy does an average US home use in a year?

A) 3,800 kWh

C) 6,700 kWh

B) 11,100 kWh

D) 15,800 kWh

Who Wants to Be an Energy Expert?

How much electric energy does an average NYS household use in a year?

A) 3,780 kWh

C) 6,550 kWh

B) 9,590 kWh

D) 12,350 kWh

Who Wants to Be an Energy Expert?

A faucet dripping at a rate of 10 drips per minute equals how much wasted water per year?

A) 211 Gallons

C) 316 Gallons

B) 527 Gallons

D) 1,150 Gallons

Who Wants to Be an Energy Expert?

What is the recommended temperature setting for a hot water heater?

A) 98.6° F

C) 120° F

B) 135° F

D) 160° F

Who Wants to Be an Energy Expert?

What uses the most energy when using a washing machine?

A) The spin cycle

**C) Water
Temperature**

B) Agitation

D) Aggravation

Who Wants to Be an Energy Expert?

Name the best method to reduce drying cost?

**A) Vent exhaust
into laundry area**

C) Turn up temperature

B) Extra spin cycle

D) Take to Dry Cleaner

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