



## Chicago Green Healthcare Initiative

Peoples Gas and North Shore Gas  
Natural Gas Savings Programs

*Limited Time Bonus Offerings*

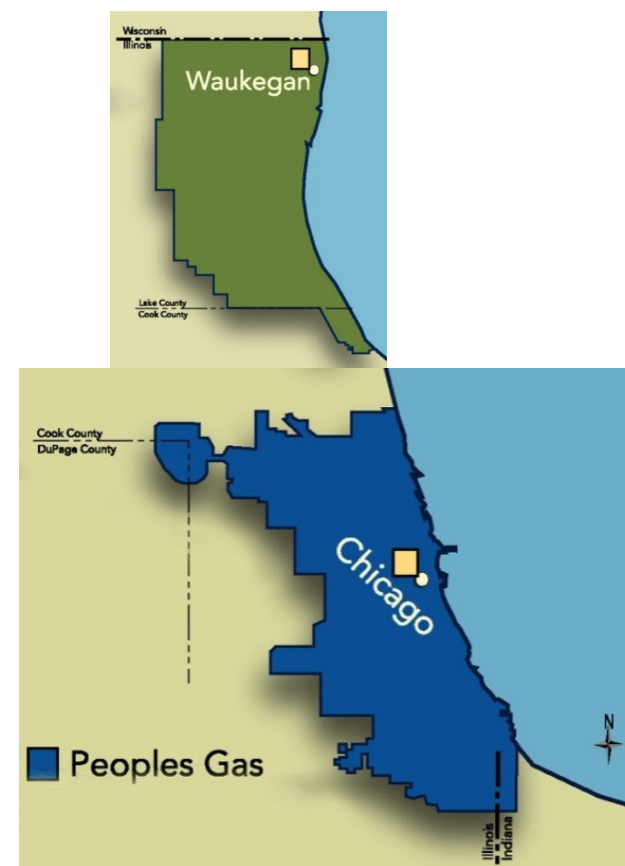
January 18, 2013

Jim Hauser



## Program Basics

- Legislative mandate: SB 1918
- Programs funded by you – the customer, based on consumption
- Franklin Energy provides program support for Peoples Gas and North Shore Gas Natural Gas Savings Programs





## Residential Programs Overview

### Prescriptive Rebate Program (co-delivered with ComEd)

- Furnaces, air conditioners, boilers, reset controls, insulation
- On Bill Finance Option for qualifying furnaces & air conditioners



### Multi-Family Direct Install (co-delivered with ComEd)

- FREE Direct Install measures – energy-efficient showerheads, CFLs, etc.
- Targets apartment buildings 3 units or greater

### Single-Family Direct Install

- FREE Direct Install measures – energy-efficient faucet aerators, shower heads, pipe insulation, etc.
- Single-family homes, two-flats, townhomes



## C&I Programs Overview

### Prescriptive Rebate Program

- One-for-one replacements of predetermined measures (boiler/furnace replacement, steam traps)

### Custom Rebate Program

- Energy saving projects with tangible energy savings not covered by prescriptive rebates

### Small Business Energy Savings (co-delivered with ComEd)

- FREE on-site energy assessment and installation of energy saving devices for small businesses

### Retro-Commissioning (co-delivered with ComEd)

- Expert analysis of your commercial or industrial building to ensure optimal performance of energy-using systems



## C&I Prescriptive Program

- Incentivize the purchase and installation of high efficiency equipment
- Some key equipment
  - Steam Trap Repair
  - Boiler Maintenance and Controls
  - Furnace/Boiler Replacement
  - Pipe Insulation
  - Food Service Equipment





## Example Prescriptive Incentives

Measure	Peoples / North Shore
HW Boilers – depending on size and efficiency	\$2 - \$6.67 / MBH input
Steam Traps – documentation needed	\$60 / trap
High-pressure steam traps	\$150-200 / trap
Condensing Unit Heater, $\geq 90\%$ TE	\$2 / MBH input
Boiler & Burner Tune-Ups – documentation needed	\$.40 / MBH input
Boiler Cut-Out / Reset Controls	\$250 / control
Food Service Equipment	\$28 – 1000 / unit
Programmable Thermostats	\$40 / unit
Gas Water Heaters	\$ 100 - \$200



## Limited Time Double Bonus Offerings

- **Featured Program:** Commercial & Industrial
- **Timing:** Now through April 30<sup>th</sup>, 2013
  - Offering **DOUBLE bonus rebates** for C&I Prescriptive Programs
  - ✓ All Steam Trap Related Rebates:
    - \$10 per steam trap tested
    - \$300 rebate per low pressure trap replaced or repaired < 15 PSI
    - \$400 rebate per high pressure trap replaced or repaired > 15 PSI



# Limited Time Double Bonus Offerings

## > Industrial/Process Steam Traps

**Specifications:** For malfunctioning traps that are leaking steam on systems that operate **more than 7,500 hours per year**. Not available for traps that have failed closed or are plugged. Orifice-type traps do not qualify in Industrial/Process applications. Mass replacement of traps can be completed without a full system assessment. In that situation, it is assumed that 30% of traps were leaking and rebate is calculated assuming 30% of the total traps replaced. Steam trap repair work must be recorded and attached to the rebate application. The attached log must meet all requirements listed in the HVAC Steam Trap Repair/Replacement section of this application.

Description	Minimum Specifications	Rebate	Unit	# of Units	Total Rebate
Industrial/Process Low-Pressure Steam Trap Repair/Replace	System Pressure < 15 psi	\$150	Steam Trap		
Industrial/Process High-Pressure Steam Trap Repair/Replace	System Pressure ≥ 15 psi	\$200	Steam Trap		
Industrial/Process Steam Trap Test	Complete steam trap tests, providing a log as described in Industrial Steam Trap specifications above. Applicant must also apply for repair of failed steam traps in order to qualify for test rebate.	\$5	Steam Trap Tested		

(page 3) Subtotal Rebate: \$





## Limited Time Double Bonus Offerings

- **Featured Program:** Commercial & Industrial
- **Timing:** Now through April 30<sup>th</sup>, 2013
  - Offering **DOUBLE bonus rebates** for C&I Prescriptive Programs
  - ✓ Space Heating Hot Water Boiler Cutout and Reset Controls:
    - \$500.00 rebate on existing boilers only.
  - ✓ Programmable Thermostats:
    - \$80.00 rebate per thermostat installed
    - Must include 4 programs per day and 5 day/ 2day capability and replace a non-programmable thermostat.



## Limited Time Double Bonus Offerings

### > Space Heating Hot Water Boiler Cutout and Reset Controls

**Specifications:** Boiler cutout/reset controls for existing boilers only. The system must be set so that the minimum temperature is not more than 10 degrees above manufacturer's recommended minimum return temperature. For controls on multiple boilers to qualify, control strategy must stage the lag boiler(s) only after the first boiler stage(s) fail to maintain the boiler water temperature called for by the reset.

Description	Minimum Specifications	Rebate	Unit	MBH Input per Boiler	# of Units	Total Rebate
Boiler Cutout and Reset Control	Existing Boilers Only	\$250	Reset Control			

### > Programmable Thermostats

**Specifications:** Must replace non-programmable thermostat. Programmable thermostats must be capable of maintaining two (2) separate programs (to address the different comfort needs of weekdays and weekends) and up to four (4) temperature settings for each program.

Description	Minimum Specifications	Rebate	Unit	# of Units	Total Rebate
Programmable Thermostat	See specifications above.	\$40	Thermostat		

## Direct Install: Resurrection Health Care

### – Project Description:

- 670 Units

### – Estimated Project Cost:

**FREE!**

### – Rebate Amount:

Free Product and Labor

### – Energy Savings:

18,090 therms/year

\$29,851 in gas and water savings





## Example BONUS Incentives

Measure	Peoples / North Shore
HW Boilers – depending on size and efficiency	\$4 - \$13.34 / MBH input
Steam Traps – documentation needed	\$120 / trap
High-pressure steam traps	\$300-400 / trap
Condensing Unit Heater, $\geq 90\%$ TE	\$4 / MBH input
Boiler & Burner Tune-Ups – documentation needed	\$.80 / MBH input
Boiler Cut-Out / Reset Controls	\$500 / control
Food Service Equipment	\$56 – 2,000 / unit
Programmable Thermostats	\$80 / unit
Gas Water Heaters	\$ 200 - \$400

## C&I Custom Program



- Incentives for gas saving projects not listed under prescriptive program
  - Burner Retrofits
  - Heat Recovery
  - Ozone Laundry
- Energy Engineers work with customers and trade allies to calculate therm savings from project
- **Pre-Approval REQUIRED**

## Custom Program Details



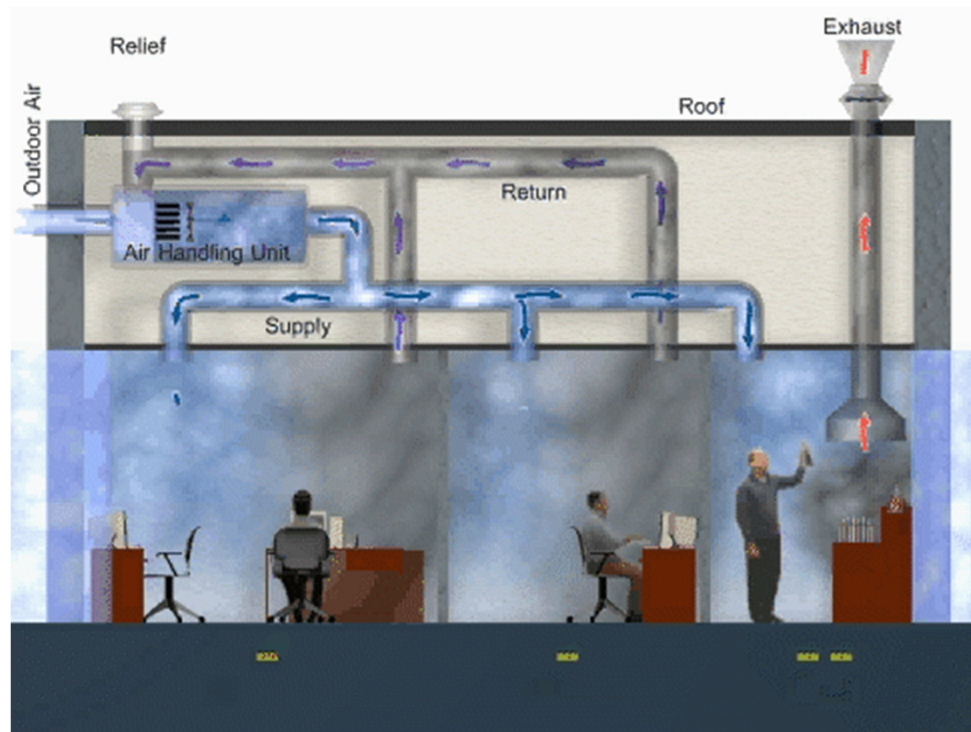
- Project must have a payback of 1 to 7 years
  - \$1/Therm saved up to 50% of project costs or buy-down to 1 year payback
- Project needs pre-approval, prior to commencement, invoice or PO

### **NEW Custom Incentive Limit for PY2**

- Increased cap on custom incentives to **\$500,000** or 50% of total project cost
  - Was \$250,000
- **REQUIRES PRE-APPROVAL**

## Retro-Commissioning

- Commissioning agents undertake a **detailed analysis of your building and systems** to uncover low/no cost O&M changes which can save substantial energy
- Example: over ventilating during unoccupied times
- Joint program with ComEd



## Prescriptive Case Study: Art Institute of Chicago

- **Project Description:**
  - Commercial Food Service Equipment Upgrades
- **Estimated Project Cost:**  
\$43,940
- **Rebate Amount:**  
\$7,000
- **Energy Savings:**  
5,406 therms/year





## Custom Case Study: Shriners Hospital



**Shriners Hospitals**  
for Children™

– **Project Description:**

- Linkage-less Burner Controls,  
4 boilers

– **Estimated Project Cost:**

\$38,686

– **Rebate Amount:**

\$16,892

– **Estimated Payback:**

1.3 years with incentive

# Custom Case Study: Northwestern Memorial



## INTELLI-HOOD ENERGY ANALYSIS

PROJECT: Northwestern Memorial Hospital -  
 ADDRESS: 251 East Huron St. - Chicago, IL 60611.  
 APPLICATION: Retrofit / Existing Building  
 DATE: 10/31/2012

Total Energy Savings:	\$33,824 /YEAR	
Electrical Savings:	206,739 kWh/YEAR	
Fan Energy Savings:	\$13,304 /YEAR	
Heating Savings:	\$15,217 /YEAR	
Cooling Savings:	\$5,303 /YEAR	
Net Installed Cost:	\$35,812	ComEd Rebate is \$350 per Exhaust Fan
Installed Cost:	\$85,045	HP: 47.5HP X \$350 = \$16,625.00
Other Adders & Deducts:	-\$49,234	** Peoples Gas rebate is \$1.50 per therm X 21,739 therms saved = \$32,608.50.

Payback Period: 1.1 YEARS

Rate of Return: OVER 5 YEARS: 68%  
OVER 10 YEARS: 74%

Environmental Savings: 277,031 lb CO<sub>2</sub>/YEAR

Current Uncontrolled Cost: \$75,954 /YEAR

\*\* Peoples Gas Rebate is \$1.50 per therm during our Bonus Program. Project must be committed to by December 31st 2012 and installed and operational by April 1st, 2013. Otherwise, the Peoples Gas rebate would be \$1.00 per therm or \$21,739.00.

The calculated savings shown above are based on the store's operating hours, estimated cooking load, local utility rates, and local climate data. Please refer to the attached analysis for details.

The environmental savings were calculated based on data from the US EIA report from 2002.

- Project : Kitchen Demand Control Ventilation
- Project Cost: \$85,045.00
- Gas Rebate : -\$32,608.00
- Electric Rebate: -\$16,625.00
- Net Project Cost: \$35,812.00
- Energy Savings: \$33,824.00

21,739 therms/year

**1.1 Year Payback**



## RCx Case Study: S&C Electric

### – Project Description:

- Optimized system operations
- Minimized outside air and added enthalpy economizer

### – Incentive:

\$48,454

### – Energy Savings:

142,633 therms





## What should you do now?

- Review the information provided today. Start thinking about gas efficiency opportunities in your facility.
- Call **Jim Hauser at 815-615-0555** to schedule a **free, on-site assessment** to identify additional opportunities.



## Limited Time Bonus Offerings

- **Featured Programs:** Residential (excludes central AC and attic insulation), Commercial & Industrial, and Small Business Energy Savings
- **Phase 1 Timing:** Now through November 30, 2012
  - Offering **DOUBLE bonus rebates** for Residential and C&I Prescriptive Programs (For Custom **Demand Control Ventilation** Applications: Additional \$.50/therm)
  - Offering a 30% increase in gas rebates for Small Business Energy Savings
- **Phase 2 Timing:** December 1 through December 31, 2012
  - Offering a 50% increase in rebates for Residential and C&I Programs (For Custom **Demand Control Ventilation** Applications: Additional \$.50/therm)
  - Offering a 15% increase in gas rebates for Small Business Energy Savings



## Key Contacts

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## Additional Contact Information

**Call us!**

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**Visit the websites!**

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