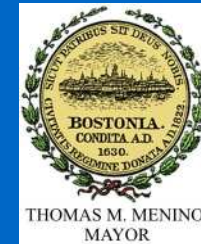


# RETScreen Software Solar Water Heating Workshop

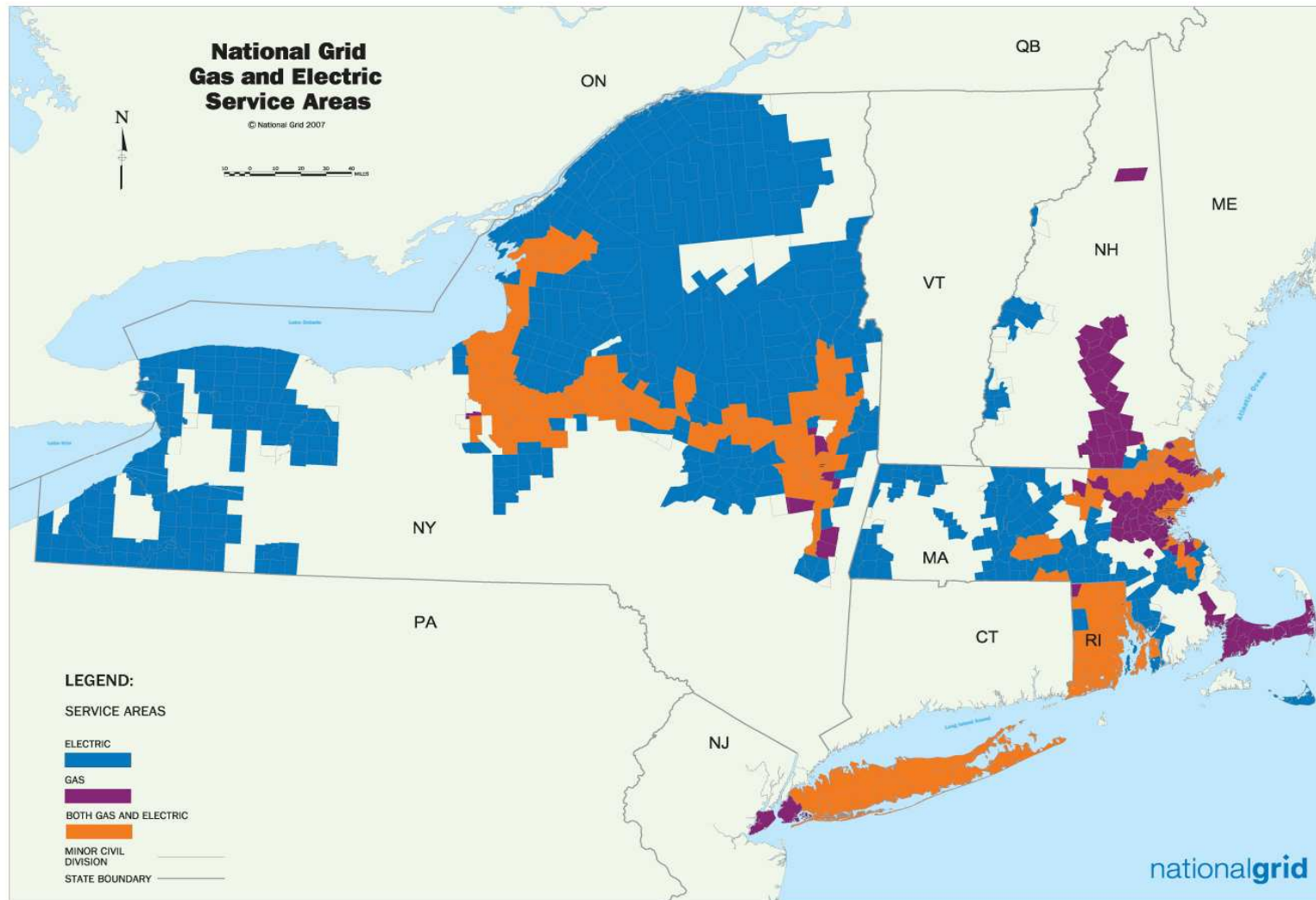
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Tuesday June 3rd

Wednesday June 4th



# National Grid- Who we are



# Why Solar Water Heating?

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## **Energy Efficiency Programs**

- Residential, Commercial, Industrial

### **1. Economic Value**

- through energy savings

### **2. Environmental Benefits**

- carbon savings

-green perception

### **3. Technical Applications**

- variety of applications

# National Grid Solar Thermal Program

- ◆ Residential
- ◆ 15 % of Project cost up to \$1,500
- ◆ Systems must have gas back-up
- ◆ Hot Water
- ◆ Space Heating
- ◆ Pool Heating
- ◆ 1<sup>st</sup> Step for Customers- Contact an installer for a quote.
- ◆ [WWW.SEBANE.com](http://WWW.SEBANE.com)
- ◆ Contractor Driven



## Residential Requirements:

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- ◆ **Systems must be OG-300 certified**
- ◆ **2 year installation warranty**
- ◆ **5 year manufacturer warranty**
- ◆ **Freeze protection to -30**



# National Grid Solar Thermal Program

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## ◆ Commercial:

- ◆ Solar Thermal - \$3/therm first year savings
- ◆ LIMIT 50% project cost or \$100,000
- ◆ Economic Redevelopment funds available for projects with high Community benefits up to \$8 per therm
- ◆ RETScreen analysis is required
- ◆ Step #1 - energy audit
- ◆ 1-800-843-3636



## Commercial Requirements:

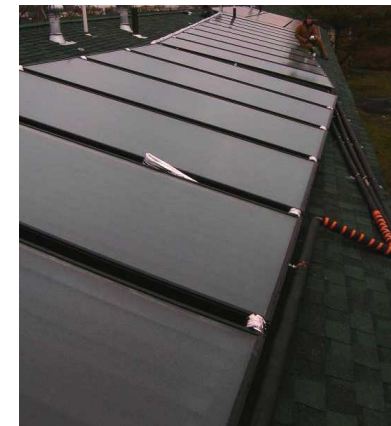
- ◆ **Custom Approach**
- ◆ **Collectors must be OG-100 certified**
- ◆ **2 year installation warranty**
- ◆ **10 year manufacturer warranty**
- ◆ **Freeze protection**

# Domestic Hot Water

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Medium Temp systems raise water temp 30°-70° **F to be delivered at 120° F**

- Multi Family Residences
  - affordable housing
  - condo cooperatives
  - luxury condos
- Hotels/Inns
- Mixed Use Commercial Spaces
- Restaurants





# Solar Pool Heating

Circulates pool water through system until desired temp is achieved

- Schools
- Community Centers
- 2-5 year payback

Economic Redevelopment Program

provides \$3-\$8/therm depending on community impact



## Other Applications

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### **Space Heating (radiant, pre heat, integrated CHP)**

- Facilities, Labs
- Office Space

### **Process Hot Water**

- Industrial, Laundromats
- Food Processing

### **Solar assisted Cooling**

- Absorption Chiller

Engineering Grants available up to \$10,000



# Steps to get started

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## ◆ Commercial

- ◆ Call for a audit...
- ◆ 1-800-843-3636
- ◆ Go to...
- ◆ [www.ThinkSmartThinkGreen.com](http://www.ThinkSmartThinkGreen.com)
- ◆ No Green technology on Brown buildings
- ◆ Other efficiency measures will take precedence over Solar thermal

## ◆ Residential

- ◆ Find an Installer...
- ◆ [www.SEBAANE.com](http://www.SEBAANE.com)
- ◆ Go to...
- ◆ [www.ThinkSmartThinkGreen.com](http://www.ThinkSmartThinkGreen.com)
- ◆ Email us...
- ◆ [Solar@us.ngrid.com](mailto:Solar@us.ngrid.com)