

## Motivation For Geothermal

### Economic:

Compared to heat from a Geothermal Heat Pump using Central Maine Power Electricity at \$0.15 per kwhr

Heat Pump COP => 5.0

**BREAK-EVEN OIL COST FOR SAME ANNUAL HEAT = \$0.93/gal**

**BREAK-EVEN COST OF PROPANE FOR SAME HEAT = \$0.67/gal**

Average cost of Oil in 2008 => ~ \$3.50

2008 Geothermal heat ~ 3 times cheaper than oil

Average cost of Propane in 2008 => ~ \$3.00

2008 Geothermal heat ~ 4 times cheaper than propane

### Environmental:

#### ZERO LOCAL POLLUTION FROM GEOTHERMAL HEAT

HOWEVER: Equipment uses electricity, but in Maine electricity provided at generating stations is:

- ~ 5 TIMES AS CLEAN AS ON-SITE OIL OR PROPANE
- ~ 10 TIMES AS CLEAN AS DELIVERED OIL OR PROPANE

#### ZERO TOTAL POLLUTION

Supply "green" electricity to power geothermal heat pump, hence giving ZERO carbon footprint from such geothermal heating!

**Geothermal with Confidence!**