A "greener" Mansion House: Phase One

Phase One (completed July 2010):

- connection of a geothermal loop in the Mansion House to ground water (removing solar energy from the hotel and storing it in the ground water and Earth)
- DDC (direct digital control) system controlling heat pumps in 40 guest rooms and 12 common areas
- Zephrus Restaurant ice machine connected to geothermal loop

Phase One Projected Savings:

- 48,392 kWh saved annually with DDC system controlling heat pumps and geothermal loop
- 43,013 kWh saved annually with geothermal loop connected to ground water
- 33.2 tons of CO_2 annually that Mansion House will not produce due to DDC system
- 29.5 tons of CO_2 annually that Mansion House will not produce due to geothermal cooling

Geothermal ground water details:

- Average 16,000 gallons (ave. temp 55 F) per day, 111,000 Btu/hr (or 32 kW) of solar power available in ground water, approx. 9 tons of cooling power

For more details please visit www.nmdgreen.com

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Green Contractors of Martha's Vineyard