

Typical ReVision Energy Solar Domestic Hot Water System

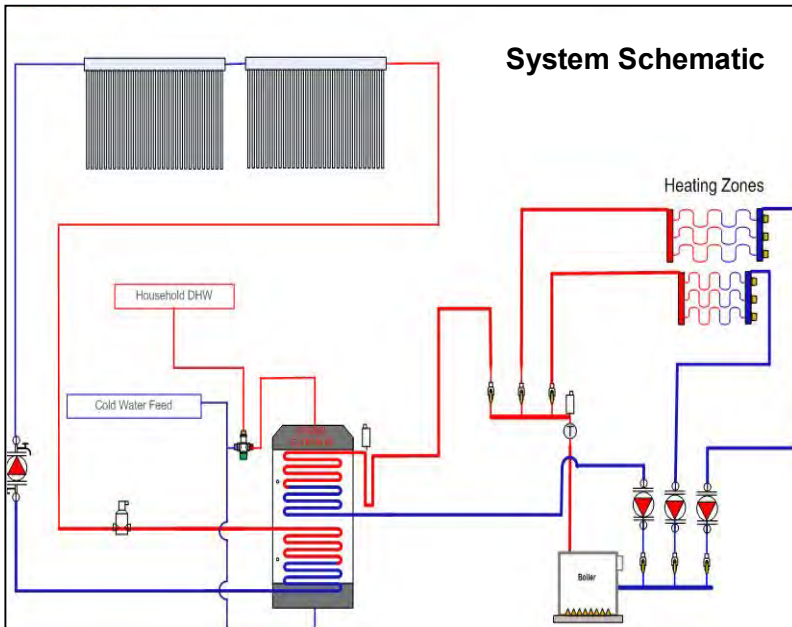
- eliminates more than 5,000 lbs. of CO2 annually
- can save more than 300 gallons of oil annually
- generates 16 million BTUs of renewable energy per year



System Overview: At left is a solar domestic hot water system designed and installed by ReVision Energy for the McDonough residence in Scarborough, ME. The system is a closed loop, anti-freeze solar domestic hot water system consisting of two 30-tube Apricus evacuated tube solar hot water collectors and a 105 Gallon, dual coil storage tank. The system is sized for a four-person household and supplies roughly 80% of annual domestic hot water demand.

System Operation: Whenever the sun makes the rooftop collectors warmer than the water in the bottom of the solar storage tank, a differential temperature controller automatically activates the solar circulating pump affixed to the tank. Warm propylene glycol heat exchange fluid is pumped down from the collectors and through the lower heat exchange coil in the tank, thus warming the water in the solar tank for use in the house. The solar contribution to water heating should be sufficient to meet nearly 100% of the demand in the summer time and roughly 70 to 80% on an annual basis. During an extended period of cloudy weather or in case of unusually high demand, the home's oil boiler provides automatic backup for the solar system by circulating boiler water through the upper heat exchange coil of the tank. The automatic backup feature ensures that the family can enjoy a reliable, consistent supply of hot water regardless of weather conditions.

Environmental Benefit and Oil Savings: By harvesting over 16 Million BTU's of clean, renewable solar energy, this system will reduce the fossil fuel consumption of the McDonough residence by at least 300 gallons of oil annually. This reduction in fuel consumption will offset more than 5,000 pounds of CO2 each year.



ReVision Energy's mission is to help people and businesses transition away from fossil fuel energy to clean, renewable energy sources. Please give us a call or visit our website to learn more about how we can help you cut your fuel costs & reduce CO2 emissions.

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207-221-6342

