



Israel

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Solar Hot Water

Almost every Israeli home has a roof-top solar hot-water system consisting of solar panels and a hot water tank. Typical domestic units consist of a 40 gallon insulated storage tank and a 20 square feet of heating panels.



The Solar panels collect heat and pass it to storage tanks in a pumpless gravity-driven loop which is simply powered by the physics of heating the water itself. When weather conditions do not produce sufficient heat, a backup electrical heating coil in the system is used to deliver the extra boost needed to raise the hot water temperature for household usage.

This Israeli technology saves the average Israel home owner about 2,000 kWh per year in electricity costs. In US terms, considering an electric cost of \$.08 per kWh, a home owner would save about \$160 per year electric bill savings. On a national scale, such systems can cut US electricity production by more than 10% annually. It is no wonder, therefore, that this Israeli technology is being used throughout the world.

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