



Go Solar

If you're looking to make your home as energy-efficient as possible and are looking for new opportunities to reduce your energy consumption, it may be a good time to go solar.

Solar water heaters are one of the best ways to make use of the sun as a renewable source of energy.

Save Money

A 50-gallon electric water heater will cost you about 1 million dollars over its 10-year life, BUT an equally-sized solar water heater will only have a one-time cost of about \$330,000 and will serve your hot water needs for more than 20 years.



GEA

GUYANA ENERGY AGENCY

www.gea.gov.gy

Designed for hot climates, solar water heaters can be a cost effective way to generate hot water for use in homes, hotels, hospitals and industries.

295 Quamina Street
South Cummingsburg
Georgetown
226-0394

SOLAR WATER HEATERS

Technology

The basic technology for solar water heaters systems is very simple. Sunlight strikes and heats an 'absorber' surface within a 'solar collector'. As water flows through the tubes attached to the solar collector it absorbs the heat. Most solar water heaters are installed on the roof. For best results, your roof should receive direct sunlight between the hours of 10 AM to 3 PM. The consumer has direct control over the system, and unlike electric water heaters, hot water is available even during a power outage.



Sizing Your System & Cost

Just as you have chosen a 30, 40, 50 gallon electric water heater, you need to determine the right size of solar water heater to install. Sizing a solar water heater involves determining the total collector area and the storage volume required to provide 100% of your household's hot water needs. Once you recover the higher initial costs of a solar system through reduced or avoided energy costs, your solar system will require expenditures only for maintenance.

Size (Gallon)	Number of Persons	Lifespan	Approx. Unit Cost (G\$)	Approx. Installation Cost (G\$)	Total Cost (G\$)
50	2 to 3	15 to 20 years	330,000	50,000	380,000
65	4	15 to 20 years	353,000	50,000	403,000
80	6	15 to 20 years	393,000	50,000	443,000



Control

Your System
Your Electricity Consumption
Your Money