



## **Profit-Generating Water Heater: Turn your Investment into Income!**

Imagine a significant energy expense in your home disappearing as a cost, while also enabling effortless reduction in your carbon footprint.

At Apparent Inc., our mission is to develop technologies enabling energy production with zero cost and minimal environmental impact. The newest addition to our innovative product line is the **Apparent Hot Water Heater** - a straightforward, cost-effective, and environmentally responsible solution for producing hot water in your household.

Your new system will be more than just another iteration of current water heating technology or traditional solar water heating. It represents a complete paradigm shift in harnessing the sun's energy to provide cost-free water heating, achieving a carbon footprint of zero. Furthermore, it plays an active role in supporting your community's electrical grid.

### **How is this possible?**

While "Solar Water Heaters" already exist, Apparent technology is drastically different from existing installations. The Apparent intelligent water heater operates in a completely different way than any systems currently available. It consists of a compact device that attaches to a pre-heating tank and connects to your existing standard water heater tank (with new construction or replacement, two water heaters would be installed).

While alternative solar water heating systems utilize solar energy for water heating, they have several disadvantages. They require direct sunlight to function (a disadvantage on cloudy, foggy or rainy days) and have reduced efficiency in colder climates. Additionally, these systems heat the water on the rooftop, leading to potential issues such as overheating, leaks, and roof damage.

The Apparent Water Heater system surpasses the limitations of both conventional water heaters and contemporary solar water heaters. Through sophisticated electrical engineering, Apparent has developed a product that achieves rapid power activation, demanding less energy and achieving faster heating compared to standard water heaters. This innovative system increases water temperature beyond the capacity of regular heating elements, effectively enabling a 40-gallon tank to function at the level of a 50-gallon tank.

The system is powered by 3 to 4 photovoltaic solar panels, feeding energy from the sun into our Apparent Inc. proprietary heating element and Intelligent Grid Operating System ( igOS™), with two water tanks. This heating element increases the temperature of the first tank up to a maximum of 159°F (70°C) and stores it. This solar-heated water supplements a conventional gas or electric-powered tank. The installation is simple and safe, utilizing low voltage. It requires minimum plumbing and basic electrical knowledge to install.

**Direct benefits to you include:**

- Elimination of gas and electricity costs for water heating. Water typically constitutes 30% of a household's utility expenses.
- Rapid cost recovery, within the first year, aided by tax credits, a reduction of 90% or more in energy consumption for water heating, and financial incentives for participating in utility programs.
- Savings ranging from \$28,000 to \$43,200 over the lifespan of your system.
- Provides FREE hot water in most weather conditions – even cold, cloudy days.
- Functionality during power outages, making it suitable for off-grid usage.
- Quick, simple and safe to install with no regularly scheduled maintenance requirements.
- Ability to heat water to temperatures beyond the capacity of standard heating elements, effectively providing the performance of a 50-gallon tank in a standard 40-gallon tank.

## In addition to the benefits for you, Apparent technology is environmentally friendly!

- While you always have access to hot water, it comes without a cost to your wallet or the environment.
- Clean power translates to the elimination of pollution and fossil fuel consumption.
- No carbon emissions are generated from water heating, resulting in a reduced overall carbon footprint.
- **Customers can contribute to grid stabilization while simultaneously reducing their carbon footprint.** In regions with high solar energy production, water heaters can activate during peak production periods to capture excess energy for hot water storage. This function assists in stabilizing the electrical grid during times of high demand.
- This advancement aligns closely with federal, state and local government objectives to transition towards more sustainable power sources.

## How much difference can a water heater really make?

Examples of the impact this technology *could* make:

- Hawaiian Utilities import 80-90 tankers of bunker oil/year to fuel electricity generation
- ~40% of those tankers are used strictly to produce energy for household water heating.
- 105 million gallons + energy to transport = **3.25 billion lbs of CO<sub>2</sub> emissions potential offset by the Apparent Water Heater Solution**
- Incorporating the AWH into most households in Hawaii would result in eliminating 35 tankers per year

**Apparent technologies offer a different solution to high energy costs, and the bottom line is: For the first time your water heating system will not only help the planet, but it will save you money too!**

