

Homeowner

- **User Story:** As a homeowner, I want a solar water heating system that is cost-effective and reliable so that I can reduce my monthly utility bills and contribute to environmental sustainability.
- **Acceptance Criteria:**
 - The system should be able to provide a consistent supply of hot water for a family of four.
 - It must be easy to monitor and control the temperature settings.
 - The system should have clear indicators for maintenance needs.
 - Installation should be possible within two days without significant home modifications.

Installer

- **User Story:** As a professional installer, I need the solar water heating system to be straightforward to install with clear instructions so that I can ensure a quick and correct setup for the customer.
- **Acceptance Criteria:**
 - The installation manual should be clear, with step-by-step instructions and diagrams.
 - The system should come with all necessary installation materials and tools.
 - Customer support should be readily available for any installation queries.
 - The system should be compatible with standard home plumbing systems.

Maintenance Personnel

- **User Story:** As a maintenance technician, I require a solar water heating system that is easy to service and maintain, with accessible parts and diagnostic tools, to ensure long-term reliability and customer satisfaction.
- **Acceptance Criteria:**
 - The system must have self-diagnostic capabilities to alert users and technicians of issues.

- Replacement parts should be readily available and affordable.
- The design should allow for easy access to internal components without requiring complete disassembly.
- The manufacturer should provide detailed maintenance guidelines and technical support.

Environmental Enthusiast

- **User Story:** As an environmentally conscious consumer, I want a solar water heating system that maximizes energy efficiency and minimizes carbon footprint so that I can contribute to reducing global warming.
 - **Acceptance Criteria:**
 - The system should have a proven efficiency rate exceeding industry standards.
 - It should be made of recyclable or sustainable materials.
 - The product should have a net positive environmental impact, certified by a recognized ecological standards organization.
 - There should be evidence of the system's contribution to reducing CO2 emissions, such as equivalence in planted trees.