

Solar Water Heating Systems:-

Product Requirement Document:-

PRD ENTRY	Description
Product Users	<ul style="list-style-type: none">• Residential Homeowners: Individuals looking to reduce energy costs, lower their carbon footprint, and take advantage of government incentives for renewable energy solutions.• Residential Homeowners: Individuals looking to reduce energy costs, lower their carbon footprint, and take advantage of government incentives for renewable energy solutions.
Functional Requirements	<p>Solar Collectors:</p> <ul style="list-style-type: none">• Options: Evacuated tube or flat plate collectors.• Efficiency: High efficiency in capturing and storing solar energy. <p>Water Storage Solutions:</p> <ul style="list-style-type: none">• Only Solar: Direct flow from the solar collector to the tap, producing up to 150 litres of hot water daily without a tank.• Conventional Water Heater: Integration with an existing conventional water heater for later use.• Instant Water Heater: Compact, efficient instant water heater that provides unlimited hot water and reduces energy wastage. <p>User Interface:</p> <ul style="list-style-type: none">• Application Features: Flow, storage, temperature, and energy use monitoring.• Usability: User-friendly and intuitive interface.
Non-Functional Requirements	<p>Efficiency:</p> <ul style="list-style-type: none">• Heating Cost Reduction: System should provide a 50-80% reduction in heating costs.• Performance: Consistent and reliable hot water supply. <p>Reliability:</p> <ul style="list-style-type: none">• Maintenance: Minimal maintenance required.

	<ul style="list-style-type: none"> • Durability: Long-lasting components and robust design. <p>Compliance:</p> <ul style="list-style-type: none"> • Regulatory Standards: System should meet all regulatory standards for renewable energy solutions. • Safety: Ensure the system is safe and reliable for both residential and commercial use.
Product Support	<p>Installation:</p> <ul style="list-style-type: none"> • Professional Services: Ensure professional installation services are available to customers. • Time Frame: Aim to reduce customer installation waiting time by at least 50% <p>Customer Support:</p> <ul style="list-style-type: none"> • Availability: Dedicated support team for addressing customer inquiries and issues. • Responsiveness: Prompt resolution of any reported problems. <p>Warranty and Maintenance:</p> <ul style="list-style-type: none"> • Warranty: Offer extended warranties for beta testers and standard warranties for all customers. • Maintenance: Provide guidelines for minimal maintenance requirements and support.