# **Market Requirements Document**

## **Executive Summary**

Market description	<ul> <li>Current solar water heater market continues to grow</li> <li>The global solar water heater market is expected to grow at a compound annual growth rate (CAGR) of 8.5% from 2023 to 2032, with the industry projected to grow from USD 4.01 billion in 2023 to USD 7.71 billion by 2032</li> </ul>
Key objectives	<ul> <li>Improve efficiency by 25%</li> <li>Reduce customer installation wait time by 50%</li> </ul>
Opportunities and threats	<ul> <li>There are a number of viable competitors in the solar water heating market</li> <li>Substitute product risks are high</li> <li>Rivalry among competitors is also high</li> <li>Fixed costs required to start up are high</li> <li>There will likely be few new competitors in the short-term</li> </ul>
Customer challenges	<ul> <li>Energy costs continue to rise</li> <li>Installation times are to long for water heater</li> <li>Dont have much control over how system operates to get best and most efficient use from it</li> </ul>
Solution	SRU will upgrade current product mix. A new solar water heating system will be developed which will provide several advanced features and functions that will address the market problem

#### Vision

Vision statement	Our product is a solar water heating system for residential owners and commercial business. Our product uses a ground breaking technology known as solar collectors, is user friendly, innovative, aesthetically pleasing and will let you capture and convert more sunlight into electricity than any other system
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<ul> <li>System can reduce carbon dioxide emissions.</li> <li>System has fewer components than the competition's systems and is virtually maintenance free.</li> <li>Insulation design allows the tank to maintain high water temperatures longer than most</li> </ul>	Product differentiation	<ul> <li>emissions.</li> <li>System has fewer components than the competition's systems and is virtually maintenance free.</li> <li>Insulation design allows the tank to maintain</li> </ul>
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## Target market

Market category	Solar power water heaters
Market size	USD 3.7B in 2022
Market share	22% of market share globally
Key customer segments	Home/apartment owners and commercial businesses
Competitors	General Electric, Rheem Manufacturing, Racold, Sun Pad, Bosch
Channels	Website that customers can access to view product offerings, purchase systems, and schedule installations

## High-level capabilities

Jobs to be done	<ul> <li>Many commercial customers stated a need to be able to monitor system efficiency, measure system efficiency, identify system issues, and configure the system in real-time to meet changing environmental conditions</li> <li>Many residential users requested a standard console that is linked to the system to monitor and adjust the system operations and outputs</li> </ul>
Desired capabilities	<ul> <li>SRU management wants the app to track users, and issues, and provide diagnostic information</li> <li>Both commercial and residential users want the app to be secure and ensure user information is not available to third parties</li> </ul>

#### Metrics strategy

Revenue	Achieve 98% ROI in first year
Pricing	Pricing will be set competitively. But product positioning will be based on features and functions
Key objectives and metrics	Desired long-term impact of your product or new feature set — including <u>metrics</u> for success