

Usability Testing Requirements Considerations for SRU Horizon Smart Solar Water Heater

Usability Testing Category	Useability Testing Requirements Considerations
Learnable	<ul style="list-style-type: none">• Requirement: Users must be able to easily accomplish basic tasks (download, login, locate key metrics, and configure a setting) the first time they use the app.• Success Metric: The user accomplishes these initial tasks with minimal questions asked of the UX team.• Documentation: The UX team will document every question a user asks during the initial onboarding phase and note any UI elements that cause hesitation.• Action: Based on feedback, the product design will be updated to clarify instructions, improve UI labels, or simplify confusing workflows.
Efficient	<ul style="list-style-type: none">• Requirement: Users must be able to quickly learn the design and begin operating the system effectively.• Success Metric: The average time from starting the app download to effectively operating the system is 15 minutes or less.• Documentation: The UX team will time each user's onboarding process and document the time taken to complete specific key tasks.• Action: If the average time exceeds 15 minutes, the UX team will identify bottlenecks and recommend design updates to streamline the user workflow.
Memorable	<ul style="list-style-type: none">• Requirement: Users must be able to return to the app after a break and re-establish proficiency without needing to re-learn the interface.• Success Metric: After the one-hour catered lunch break, 100% of users can successfully access and use an advanced function without additional instructions.• Documentation: The UX team will document any questions or areas of confusion users exhibit when they return to the test after the break.• Action: If users struggle to remember how to navigate the app, the design will be updated to improve the intuitiveness of the information architecture.
Free of Errors	<ul style="list-style-type: none">• Requirement: The app's design should be intuitive enough to prevent user errors, and when errors do occur, the user should be able to resolve them independently.• Success Metric: 100% of all users can self-correct 100% of all operational errors without any assistance from the testing team.

	<ul style="list-style-type: none"> • Documentation: The UX team will log every user error, classify its severity (minor, moderate, severe), and analyze the root cause. • Action: The product design and in-app guidance will be updated to prevent the most common or severe errors identified during testing.
Delightful	<ul style="list-style-type: none"> • Requirement: The overall experience of using the app to manage the solar water heating system must be pleasant and satisfying for the user. • Success Metric: The system achieves an average overall user satisfaction rating of 4.5 out of 5 points or higher in the post-test retrospective. • Documentation: The UX team will collect and transcribe all qualitative feedback from the retrospective, specifically listing what users like and what they recommend for improvement. • Action: A prioritized list of feature improvements and refinements will be created based on user feedback to be addressed before the product launch.