

GREEN/CLEAN TECH RELIABILITY SOLUTIONS

We are the industry leader in **reliability solutions** in the **green/clean tech** markets. We are committed to Highly Reliability Systems to help save our planet.

We offer a flexible method of engagement: End-to-end reliability solutions solving specific issues, or providing individual reliability services.

We consult in every life cycle phase, train in every aspect of reliability, and test in our state-of-the-art HALT and HASS Labs™

We provide **Confidence in Reliability**.

INTEGRATED RELIABILITY SOLUTIONS TO THE GREEN/CLEAN TECH INDUSTRY



Solutions - end-to-end solutions that target the corporate product reliability objectives.

Individual Consulting Services - providing the missing key elements needed for a fully integrated reliability program.

Training Seminars - highly specialized experts in the industry train others in both standard and customized training seminars.

Testing Services - a comprehensive list of state-of-the-art reliability testing services.



WHAT IS "GREEN RELIABILITY"

- Today, the topic of **Green** is being discussed everywhere. But what does it mean to be **green**?
- "**Going Green**" has many implications from the materials being used to the type of energy being used and the quantity being consumed.
- And each aspect of "**Going Green**" has reliability implications.
- Any time we change material properties, there are inherent reliability **risks** we must address.

MARKETS WE SERVE

There are many different industries involved in **Going Green**. Here are a few we have worked with to date on **Green** Projects:

- Solar
- Wind
- Battery
- Electric/Gas Meters
- Generators (methane)
- Nuclear
- All Industries converting to RoHS/WEEE/Reach
- Water Purification
- Telecomm./Server Farms
- Hydrogen
- Electric Vehicles
- Fuel Cell
- Cooling Solutions

OUR SERVICES

PROGRAM MANAGEMENT SERVICES

- End to end Complete Reliability Program Management
- Competitive Analysis
- Reliability Assessment/Set Goals/Write Reliability Plans
- Restriction of Hazardous Substances (RoHS)/Lead Free

RELIABILITY ANALYSIS SERVICES

- Reliability Modeling/Reliability Predictions
- Reliability, Availability, and Maintainability (RAM)
- Component Engineering/Materials Selection Analysis
- Derating/Thermal Analysis
- Electromagnetic Interfer./Compatibility (EMI/EMC) Analysis
- Failure Modes and Effects Analysis (FMEA)
- Preventive Maintenance/Warranty Analysis
- Root Cause Analysis (RCA)

RELIABILITY TESTING SERVICES

- Accelerated Life Testing (ALT)
- Highly Accelerated Life Testing (HALT)
- Highly Accelerated Stress Screening (HASS)
- Reliability Demonstration Testing/On-Going Reliability Testing

RELIABILITY IN MANUFACTURING SERVICES

- Maintenance Audits and Spares Optimization

RELIABILITY SEMINARS

- Best Accelerated Reliability Tests - HALT, HASS, ALT, RDT
- Climatic Testing Fundamentals
- Design for Reliability in a Clean Tech World
- Root Cause Analysis (RCA)

OPS DELIVERS SUCCESS IN THE GREEN/CLEAN TECH INDUSTRY

Armageddon Energy - Reliability program for residential solar product

Artificial Muscle - Accelerated Life Test for mechanical actuator

Bloom Energy - Reliability Assessment and Test Plan for fuel cell product

Camelbak - Reliability Program for a water purification system

Capstone Turbine - HALT for an alternative energy powered generator

Carmanah - Accelerated Life Test for marine solar product



Clipper Windpower - Accelerated Life Test/Compliance Test for wind turbine

Cooligy - HALT for cooling device

Echelon - HALT and FMEA on electric meter

Energy Innovations - Reliability Program Plan and Accelerated Life Test Plan for solar tracker

GE Ionics - Accelerated Life Test on a water purification system

General Hydrogen - HALT on electric vehicle

Helix Windpower - Accelerated Life Test for residential wind turbine

HP - HALT on a server cooling cabinet

Itron - Reliability Assessment and HALT on electric and gas meter



Konarka - Accelerated Life Test for portable solar product

Semiconductor - Reliability program for a solar optimizer

Nuventix - Reliability Demonstration Test for miniature cooling device



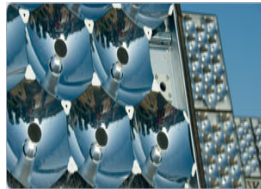
OptiSolar - Reliability Test Plan for solar inverter

San Diego Gas and Electric - Reliability Program on electric meter

Silver Springs Networks - HALT on utility networking device

Solar Electric Solutions - Warranty Analysis for solar product

Solar Junction - Reliability program for solar product



SolFocus - HALT for solar tracker controller

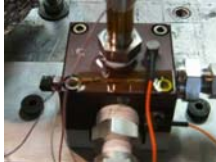
SunPower - On-Going Reliability Test for solar product

Sylvan Source - Accelerated Life Test, Corrosion Test Plan for a water purification system

Tesla Motors - Accelerated Life Test for battery technology

Thompson Technology - Root Cause Analysis for solar tracker

Visvx - Reliability Test Program for automotive fuel health monitoring device



Xandex - Reliability program for a solar optimizer

Xantrex - HALT, FMEA, and Prediction for inverter for wind and solar



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WE PROVIDE CONFIDENCE IN RELIABILITY !