



# Saft Factory of the Future

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# Saft Factory of the Future

## Overview

### Timeline

Project Start Date: 12/10/2009

Project End Date: 12/30/2013

Project 80% complete

### Barriers

Competitive Market Place

Development of Markets for  
Renewable Energy

### Budget

Total Project = \$191,047,318

DOE/ARRA Share = \$95,504,255

Contractor Share = \$95,543,063

### Partners

ARRA/DOE/NETL

State of Florida (EFI)

City of Jacksonville (JEDC)

# Saft Factory of the Future

## ■ Project Objectives:

- Construct and operate a 235,000 sq ft battery factory capable of manufacturing high quantities of Li-ION cells, modules, and batteries at a competitive cost to support the industrial energy, electric drive, military hybrid vehicle and other defense and aerospace markets.
- Employment of hundreds of people in well paid jobs in the Jacksonville, Florida area.
- Diverse marketing focus as we continue to assess and adapt to the commercial needs for renewable power sources.

# Soft Factory of the Future

## Milestones

**Site Selection**

**NEPA**

**Building and Equipment Designed**

**Site Preparation, Construction and Equipment  
Procurement**

**Equipment Installation and Test of three production  
lines.**

**Production Line Qualification**

**Deliverables**

# Saft Factory of the Future

## Previous Accomplishments

235,000 Sq Ft LEED Silver Building has been completed.

Concept



LITHIUM-ION  
BATTERY MANUFACTURING PLANT  
JACKSONVILLE, FLORIDA  
RENDERING

Actual



## Current Accomplishments

Production Line 1 in production ramp up.

Production Line 2 in Production ramp-up.

Production Line 3 undergoing installation and startup by end of 2013.

Batteries and Containerized Energy Storage systems have been manufactured onsite and delivered to customers both domestic and international

LEED Silver Certification received

**160 full time Jobs have been created so far with expansion in 2013 continuing.**





## 2013 Status

- Expanding production to include additional Lithium Ion chemistries and cell types to meet additional markets.
  - Energy Storage Systems
  - Telecommunications
  - Mobility Applications.
    - Truck - Bus
    - Railroad
    - Marine



# Mixing





# Coating and Rewind



# Calendaring Operation





# Cell Assembly Line



# Filling Operation







# Formation





# Cell Storage



# Shipments of Multiple Containerized System - Intensium Max





# Saft Factory of the Future

## Future Milestones

Complete installation of 3<sup>rd</sup> production line

4<sup>th</sup> quarter 2013

Continue rapid expansion and improved capabilities of existing lines to reach full potential necessary to meet increasing backlog of business.

# Saft Factory of the Future

## Summary

Saft has met all commitments of the project to date and is ahead of schedule on workforce expansion.

Original scope of project is on track to meet plan

Saft has met with market success and is planning for rapid expansion.

The factory will have the capacity to delivery in excess of 370 MWh of energy annually

279 jobs directly related to the production of Li-ION batteries will be created and several hundred of jobs to support the needs of US production facility.