

Welcome to Saft Jacksonville

Jacksonville Site Presentation



Overview

Land surface: 4.8 hectares (11.8 acres)

Surface under roof: 22 000 m² (235 000 ft²)



Dry/clean rooms (ISO 6): 5 300 m² (57 000 ft²) Formation/ageing surface: 1 700 m² (18 000 ft²)

Office area: 1 400 m² (15 000 ft²) LEED® Silver certification applied for

Plant History

Project Kick-off

Dec 2009

Groundbreaking

Mar 2010

Start construction

May 2010

Construction complete

Mar 2011

Line #1 installed

Jul 2011

Grand Opening

Sep 2011

1st product delivery

Dec 2011







Rooftop Solar Array

- 1.02 MW power output; 4 340 solar modules
 - > 235 watt poly-crystalline Siliken® modules
 - > 115 214 ft² (10 704 m²) total PV array
- 2 Inverters
 - > Satcon® 500 kW inverters
- 21 miles electrical wiring
- Energy savings, annual
 - > (1 300) MWhr
 - > (903) metric tons CO₂
 - > (2,100) barrels of oil



Products - Cells



Various Chemistry NCA and SLFP

- > VL45E 162 Wh, optimized for energy
- > VL41M 147 Wh, medium power
- > VL30P 108 Wh, optimized for power
- > <VL80E> 288 Wh, optimized for energy: available June 2012
 - Larger diameter ~70 mm

Prismatic - NMC

> Cells under development, D-sample available by end-2013



Products - Solutions

- SAFT Intensium Max
- Energy Storage Systems
 - > Intensium Max containers 580 kWh containerized battery
 - > Synerion E modules 48 V modules, 2.2 kWh
 - > Synerion 24/48 modules 24 V or 48 V modules, 2.0 kWh
- Telecommunications standby systems
 - > Evolion modules 48 V, 4.0 kWh
- Vehicles Solutions
 - > HEVs
 - > Heavy duty
 - > Scooters
 - > Forklift trucks
- Aviation



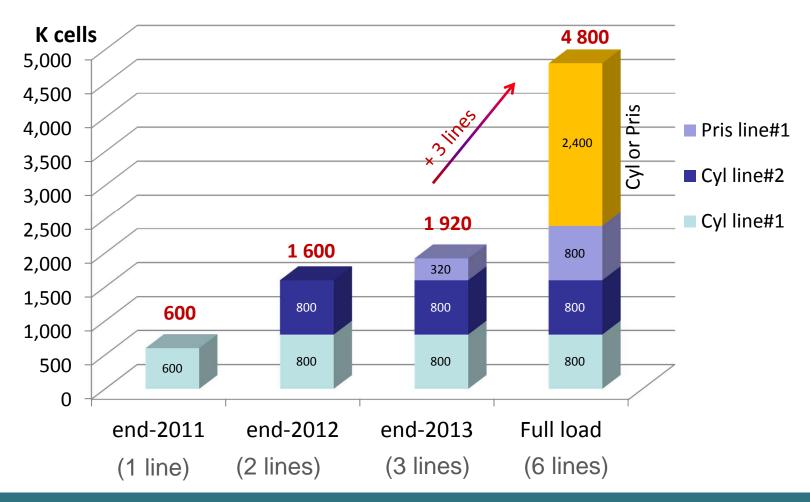




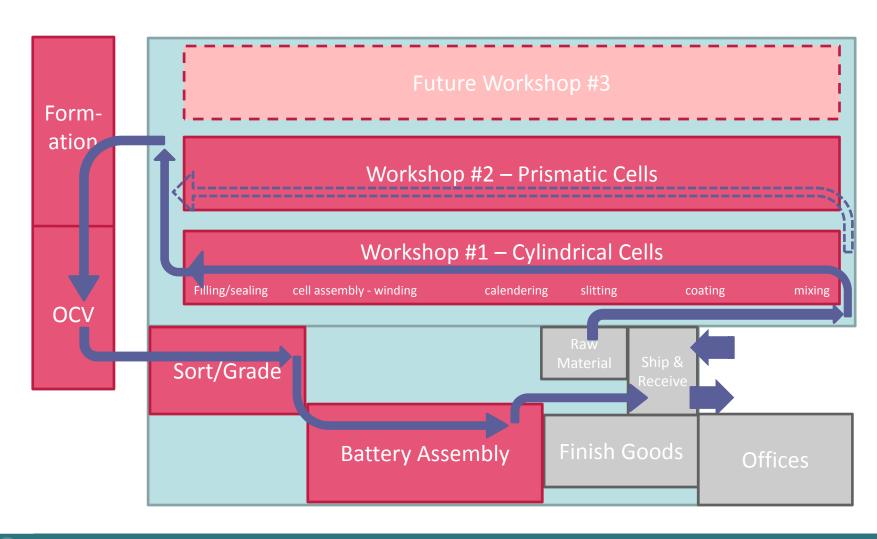


Jacksonville Factory Capacity of Production

Yearly production capacity (5days) up to 4.8M cells

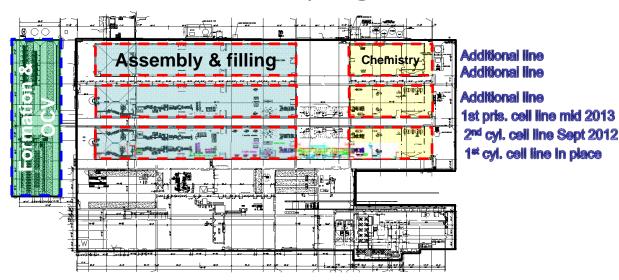


Product Flow - General



Production Capability (future investments)

- Expansion capability pre-planned
 - > Workshop #2 can accept additional equipment
 - > Workshop #3 can be added space reserved
 - > Format (cylindrical, prismatic) open
- Saft has space for more than 2x the production capacity of the current investment program



Process environment

D

Dry rooms

- > Water is poison for our cells we keep a dry environment
- > Dew point < -30°C in mixing/coating room
- > Dew point < -40°C in cell assembly and filling rooms
- > Data are continuously monitored by our building control system
- > Water content of electrodes is tested before winding
- > Only properly trained, authorized personnel permitted in dry rooms

Clean rooms

- > Small particles can cause premature cell failure we control particles
- > ISO Class 6 or better
- > Strict protocols for control of particles
 - Protective clothing for personnel, control of particles on incoming materials
 - Air flow design 120 volume changes per hour
 - Frequent cleaning
- > Data are continuously monitored by our building control system

Our Commitment to Customer satisfaction

Dedication to Total quality

- ISO 9001 in 2012
 - Systems and documentation aligned to the standards
- Continuous improvement through SAFT World Class problem solving methodology
- Develop mutual confidence with our customers



Plant tour





International Distribution Seminar - April 10, 2014