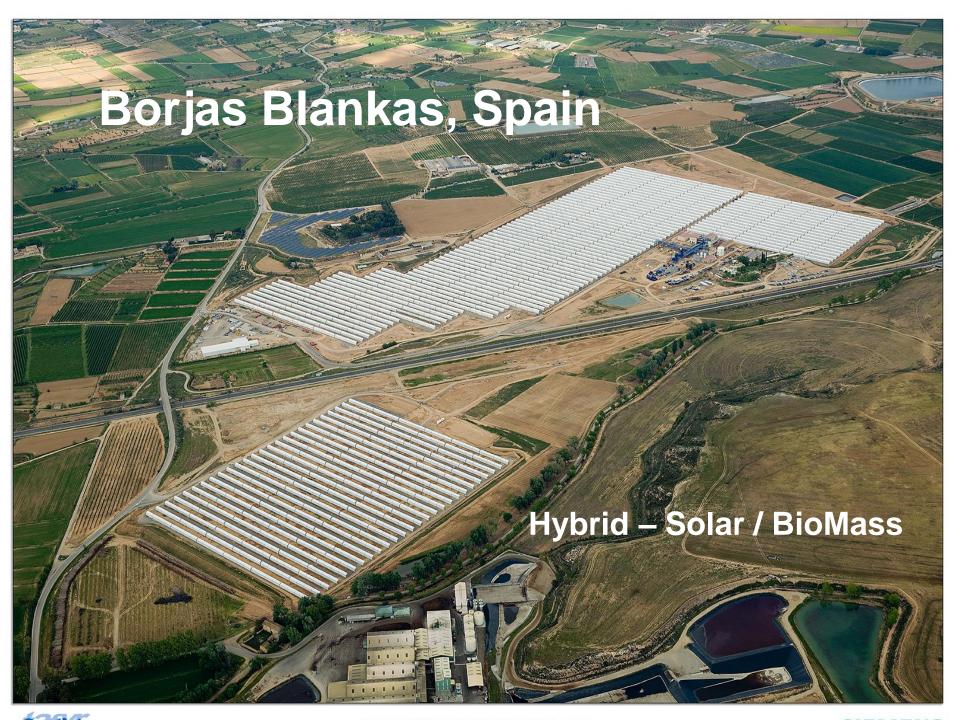
Technology the path to move Forward



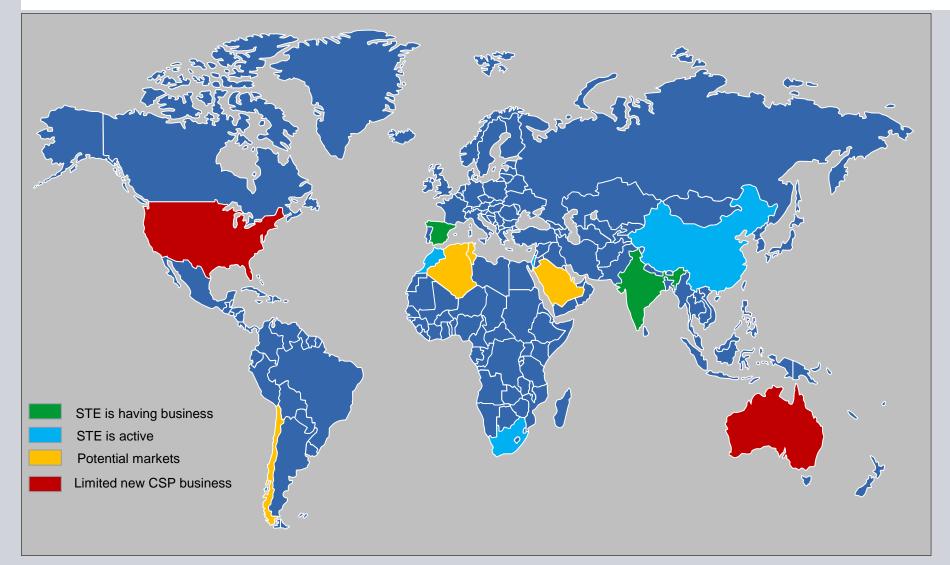








2.5GW CSP Projects in 2013-2015



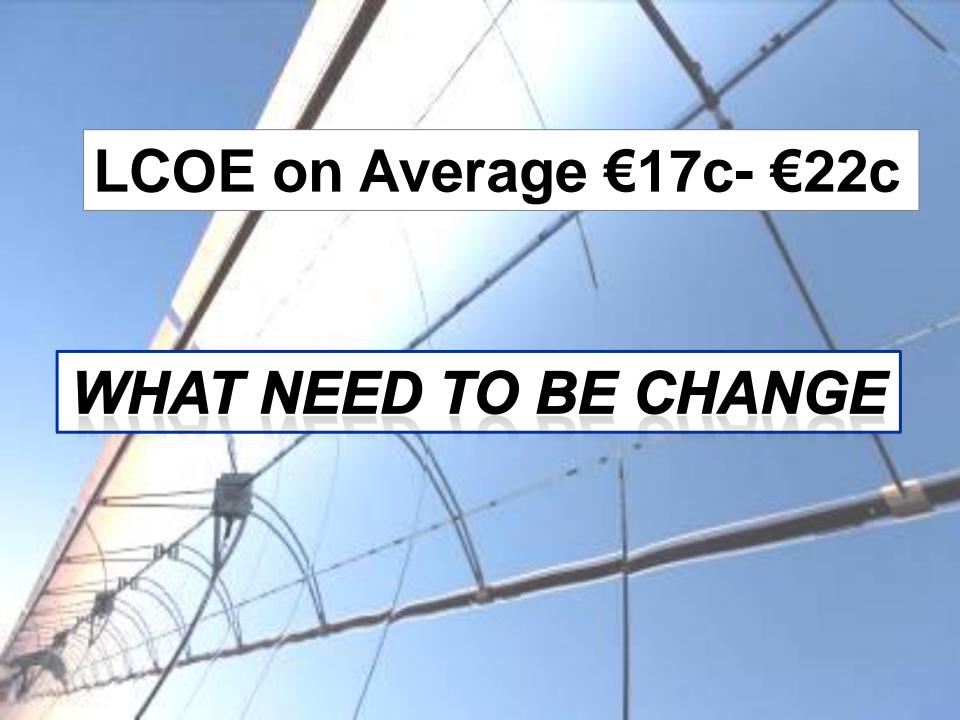
Spain

Most SF with capacity of 50MW

30% with 3-5 Hours Storage

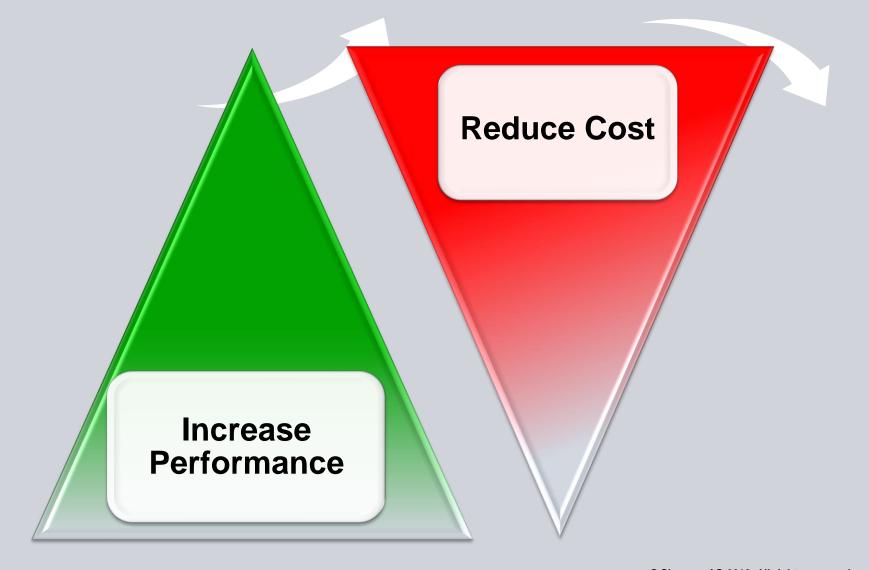
Spain Royal Decree - €26c/KWhr

Over all more than 2GW CSP Trough installed in Spain





Basics to bring LCOE down





A Leap Frog is required!





Path to Grid Parity

- ISCC Solar Hybrid with DSG
- Tower molten Salt
- Fresnel Molten Salt
- Large Trough
- High Temperature HTF's >500°C



Developments for an evolving market

STE is continuing to develop future solar receiver to lower LCOE

Higher & lower temperatures

Heat transfer fluids

Increase optical efficiencies

Standardized apertures

Cost reductions

To keep up with market demands, solar receivers must continue to evolve – and even undergo a revolution – for significant increases in efficiencies.

STE is developing its 7th generation of receivers – and beyond – which will increase thermal performance and lead to a lower overall LCOE.







UVAC 6G SIEMENS Reduces investment through greater efficiencies



Increased power generation

► Through enhanced SST selective coatings for reduced heat losses and improved AR coating for greater transmittance (up to 15% improvement in thermal losses)



Reduced expenditures

► Enables the building of more efficient power plants, fewer loops, with reduced CAPEX of up to 2.5% (based on typical 50 MW plant).

UVAC 6G – Improved solar thermal output and high standards of reliability

Bringing our 25 years of Solar experience and knowhow to effect





Licensing our Trough Technology

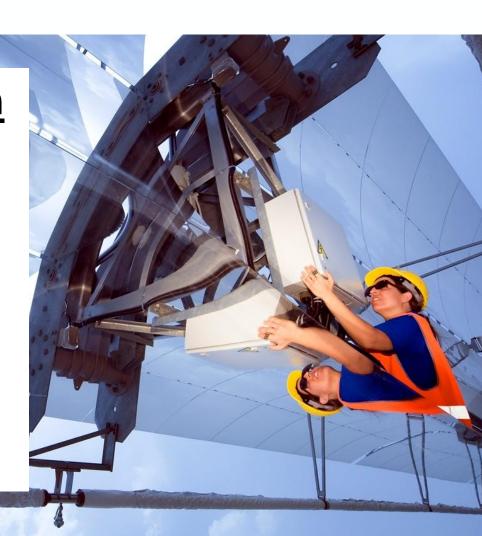
- Product license (drawings, specifications, procedures, training)
- Back office and field technical support packages
- Leasing of assembly and erection equipment
- Engineering support packages (Control, Commissioning, Electrical)



STE focus on Growth

Lowering LCOE through core competencies

Unique solar thermal technologies



Thank you!