

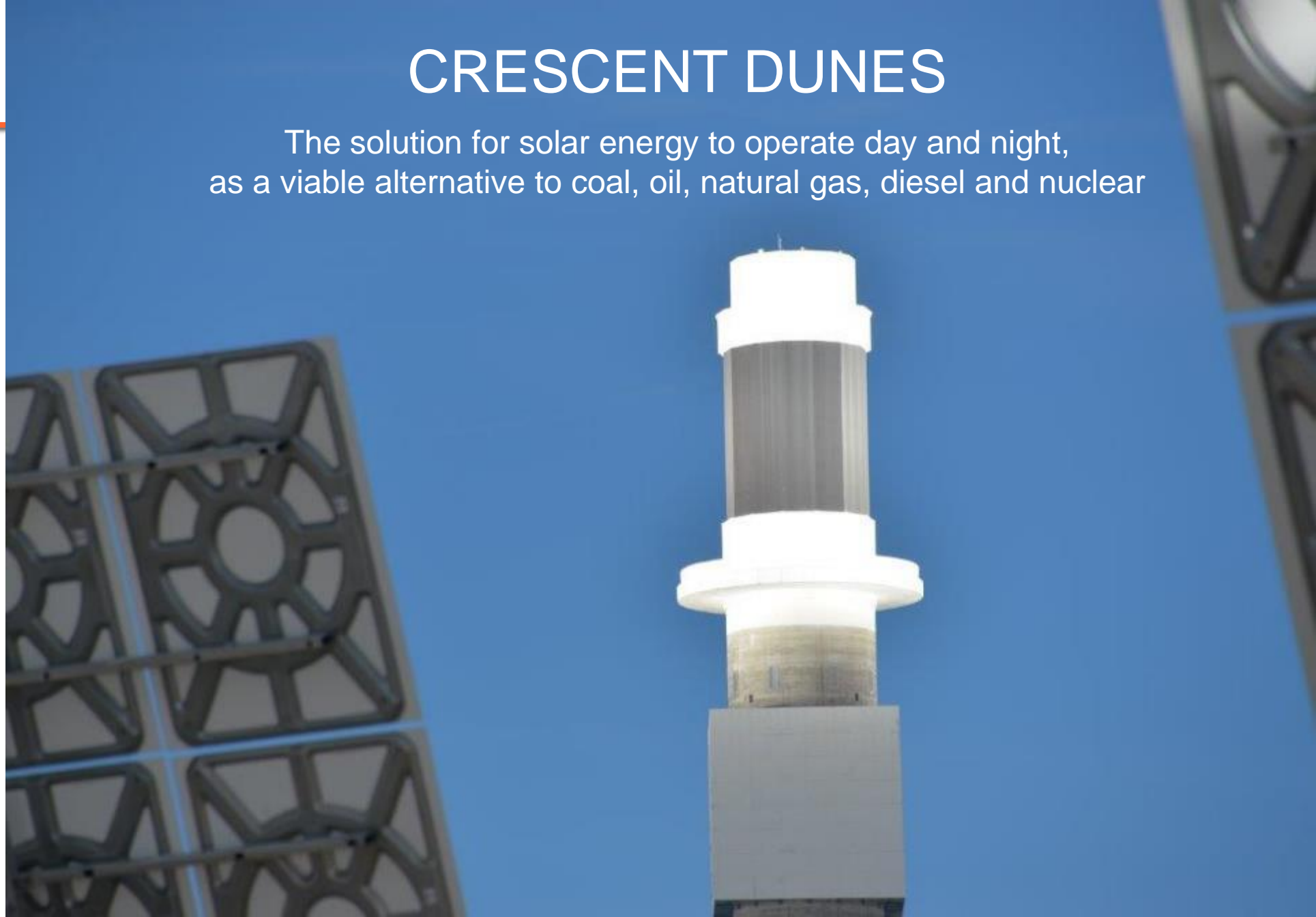


IEA Workshop  
Manufacturing Industry and Renewables Workshop  
Paris, May 11, 2015

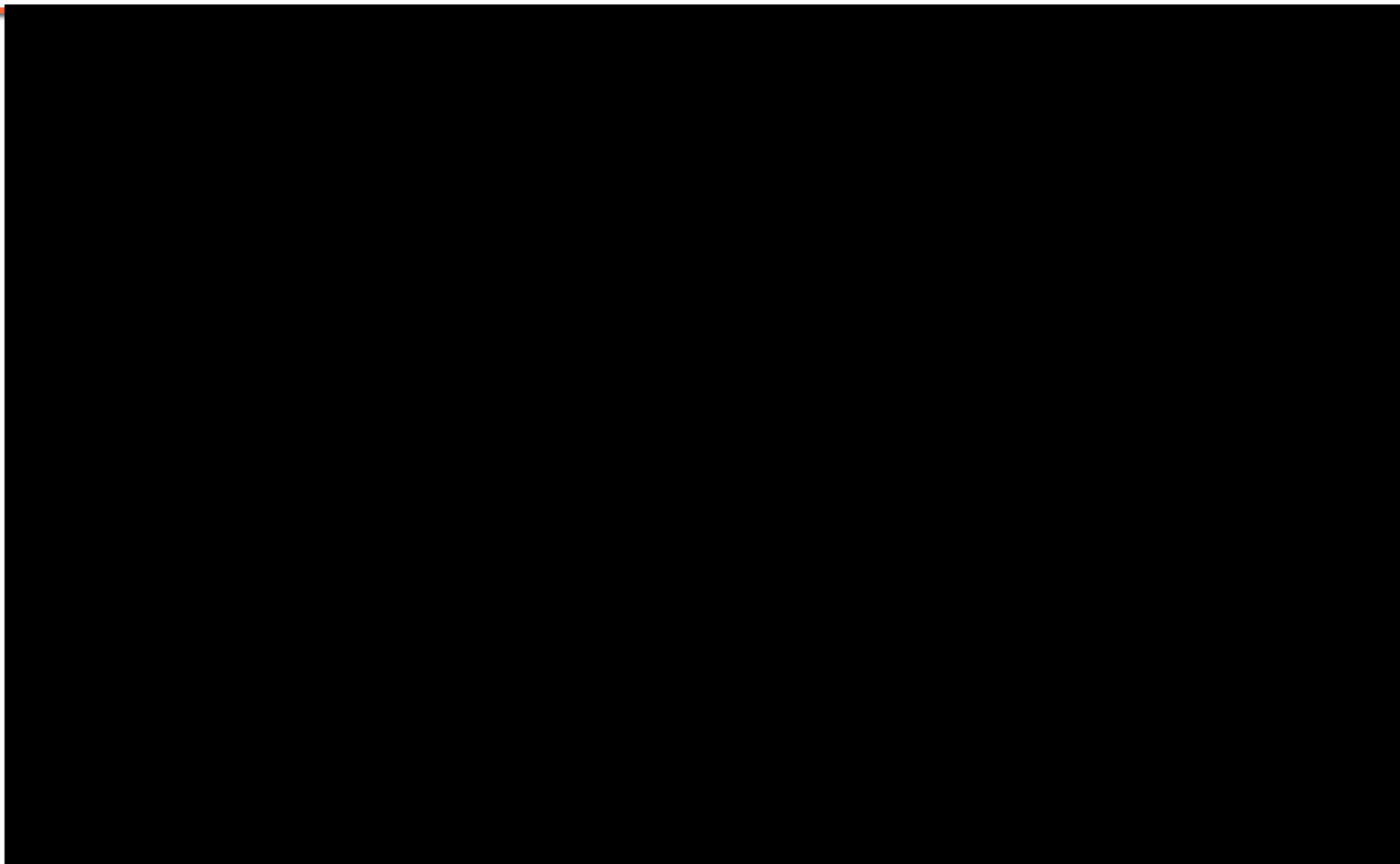


# CRESCENT DUNES

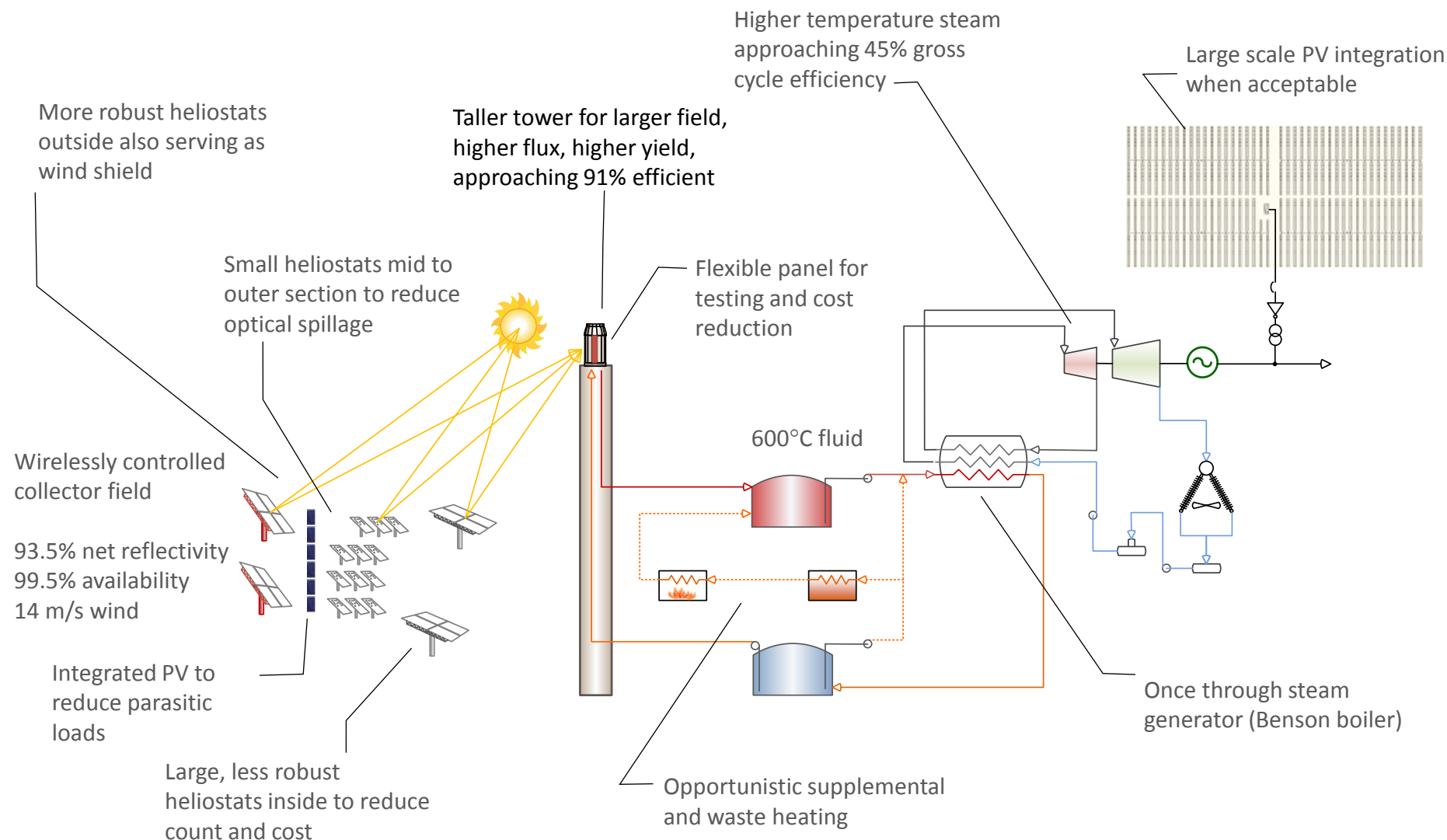
The solution for solar energy to operate day and night,  
as a viable alternative to coal, oil, natural gas, diesel and nuclear



# Crescent Dunes 110 MW Solar Energy Project



# Future SolarReserve Plant Configuration





# World's First Combined CSP and PV Solar Park

Lesedi, Jasper and Redstone Power Projects

Postmasburg, Northern Cape, South Africa

## LESEDI SOLAR POWER PROJECT

**Operations Date:** May 2014

**REIPPPP:** Round 1

**Size:** 75 MW

**Technology:** Photovoltaic (PV)

**Electricity Production:** 150,000 MW-hours annually

**Homes Powered:** more than 65,000 homes

## JASPER SOLAR POWER PROJECT

**Operations Date:** October 2014

**REIPPPP:** Round 2

**Size:** 96 MW

**Technology:** Photovoltaic (PV)

**Electricity Production:** 180,000 MW-hours annually

**Homes Powered:** more than 80,000 homes

## REDSTONE SOLAR THERMAL POWER PROJECT

**Anticipated Operations Date:** 2018 (project rendering above)

**REIPPPP:** Round 3 (CSP)

**Size:** 100 MW

**Technology:** Concentrating Solar Power (CSP) with molten salt energy storage

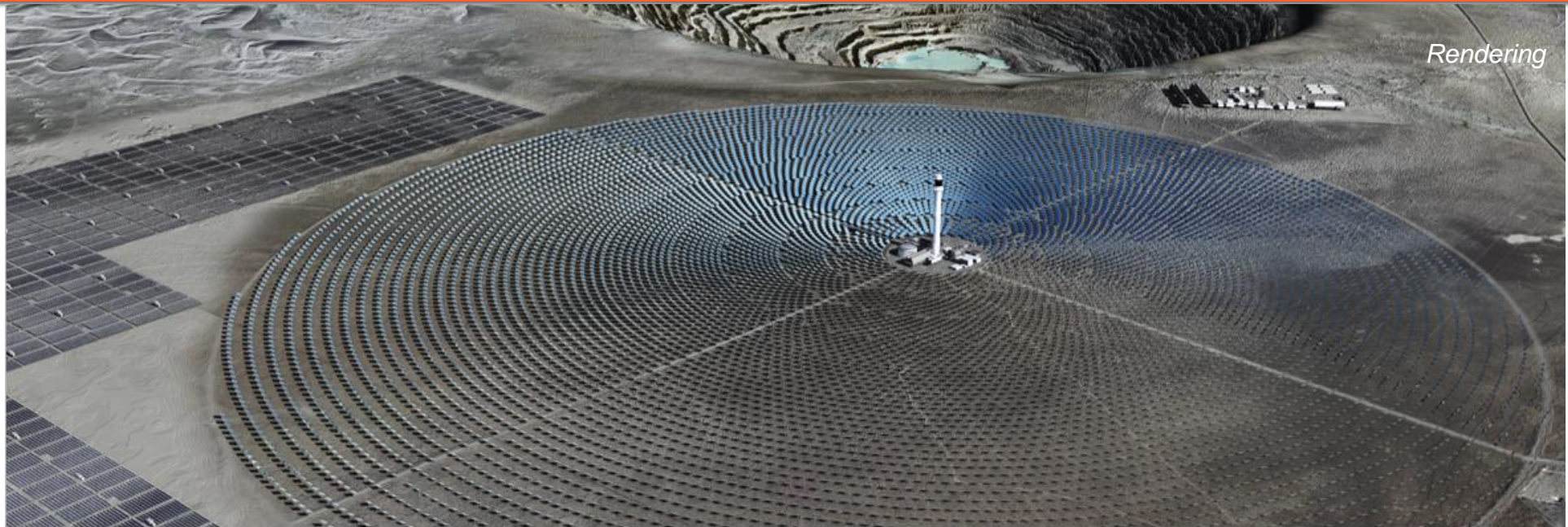
**Electricity Production:** 480,000 MW-hours annually

**Homes Powered:** more than 200,000 homes during peak demand, day and night



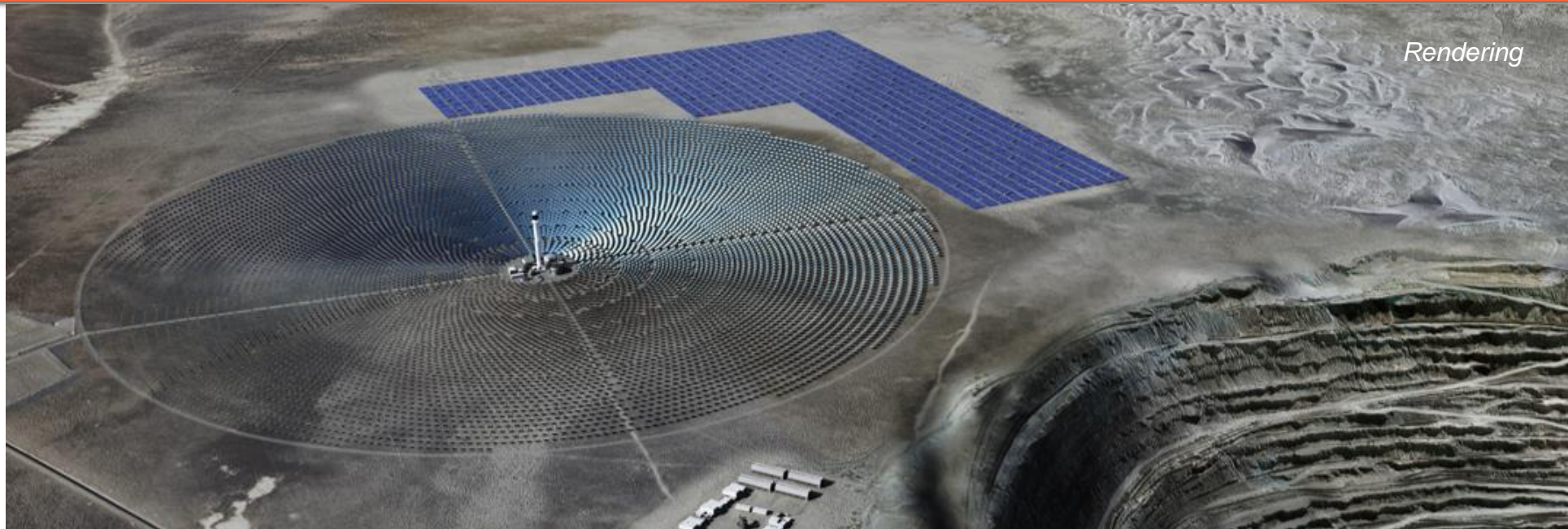
# Copiapó – Project Highlights

Combined CSP + PV System Provides Reliable and Cost Effective Baseload Power



- **Location:** Copiapó, Atacama Region of Chile on the SIC transmission system.
- **Technology:** SolarReserve's proprietary CSP tower technology with Molten Salt Thermal Energy Storage combined with solar photovoltaics (PV).
- **Project Details:** Two 130 megawatt (MW) solar thermal towers with energy storage, combined with 150 MWs of PV – resulting in 260 MW of continuous output.
- **Baseload Power:** Operates at capacity factor & availability percentage equal to that of coal fired power plant.
- **Electricity Production:** 260 MW's of firm baseload (24/7) power delivering more than 1,700 gigawatt hours annually, powering the equivalent of 560,000 homes.
- **Storage:** 14 hours of full load electricity generation.
- **Financial Close:** Expected mid-2016.

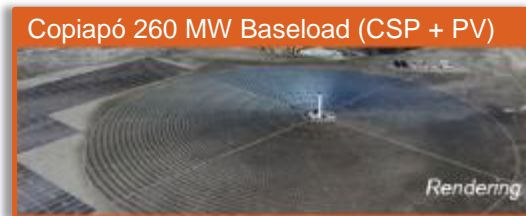
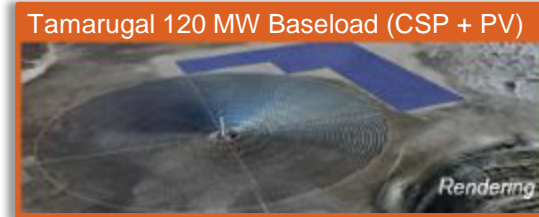
# Tamarugal Phase 1 (of 3 Phases) – Project Highlights



- **Location:** Tarapaca Region of Chile on the SING (northern) transmission system.
- **Technology:** SolarReserve's proprietary CSP tower technology with Molten Salt Thermal Energy Storage combined with solar photovoltaics (PV).
- **Project Details:** One 130 megawatt (MW) solar thermal tower with energy storage, combined with 120 MWs of PV – resulting in 120 MW of continuous output.
- **Baseload Power:** Operates at capacity factor & availability percentage equal to that of coal fired power plant.
- **Electricity Production:** 120 MW's of firm baseload (24/7) power delivering more than 900 gigawatt hours annually.
- **Storage:** 14 hours of full load electricity generation.
- **Financial Close:** Expected late 2016.



# SolarReserve's Advanced Development Projects in Latin America



Mexico

Belize

Honduras

Guatemala

El Salvador

Costa Rica

Panamá

Venezuela

Guyana

Suriname

Guyana (Fr)

Colombia

Ecuador

Peru

Brazil

Bolivia

Paraguay

Chile

Argentina

Uruguay

● PV

★ CSP

⊕ BASELOAD CSP + PV



# Global Reach Across Six Continents

Development portfolio of 6.6 gigawatts across the world's most attractive, high growth renewable markets



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