TURNKEY CONCENTRATED SOLAR PLANT

FOR STEAM AND ELECTRICITY PRODUCTION

SUNCNIM, an historical actor in CSP

CNIM

www.cnim.com 55%

bpifrance

45% www.bpifrance.fr

- Over 50 years experience as EPC and O&M contractor of power plants
- One of the top European specialists on Energy-from-Waste and Biomass-to-Energy plants
- 160 waste to energy and biomass plants built in EPC in the world.

SUNCNIM

Solar steam generator with Fresnel technology

Development, Design, Construction, Commissioning, Operation & Maintenance

- Bpifrance is a subsidiary of the state-owned Caisse des Dépôts, providing loans, guarantees and equity funding, as well as support services to underpin innovation, external growth and exports
- Acts as an equity investor in special-purpose companies for industrial development projects selected on the basis of their growth potential, the current status of the industry and their contribution to ecological and energy transition.

SUNCNIM's Offer

Concentrated Solar Thermal Plants for Steam and Electricity Production

Development → Manufacture → Construction → Operation

SUNCNIM has the knowhow and experience of the overall solar project lifecycle.

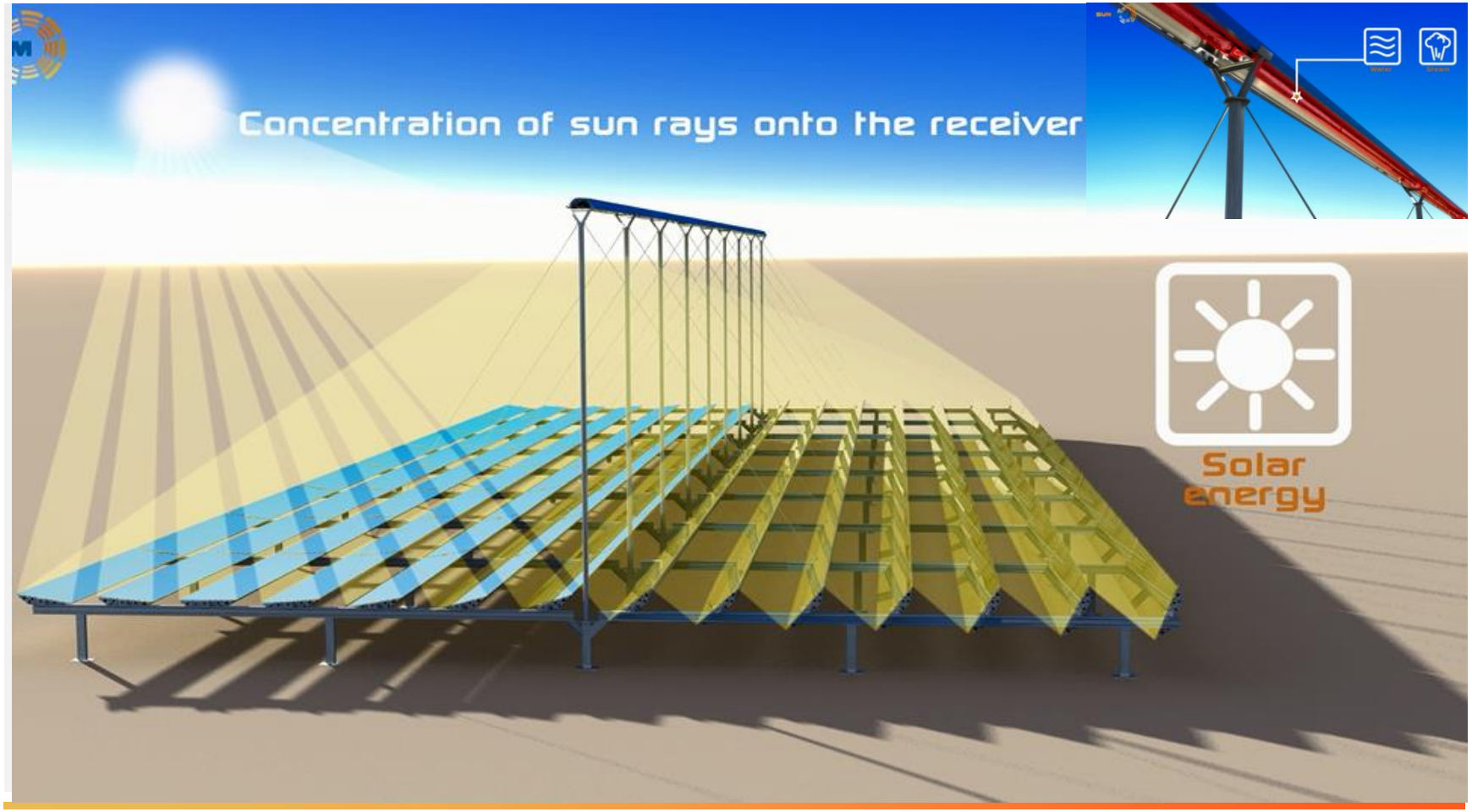
- ***Development :*** project finance through an IPP scheme
- **Manufacture** of the entire solar field
- **Construction** in the framework of a **turnkey** contract provider
- **Operation** of the plant

As a **main contractor, SUNCNIM** is in charge of:

- The overall project design, construction, commissioning and operation.
- The detailed design of the main elements of the plant using its own processes, in particular for solar field, heat storage, power block.

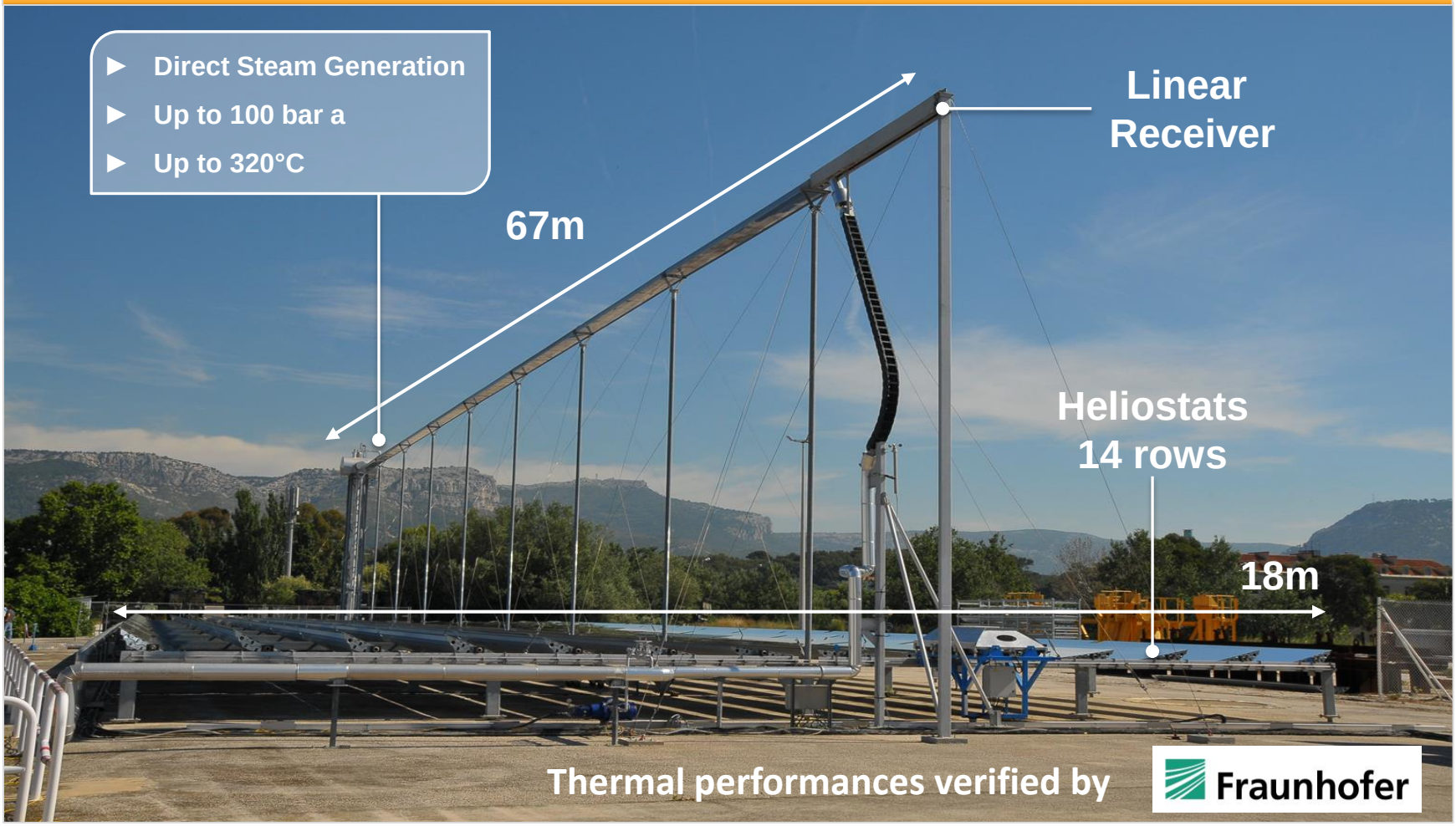
General Principle

Mirrors follow the sun's path throughout the day, concentrating the sun's rays onto a receiver. Water circulating in the receiver is then heated to generate steam.



Module Characteristics

One Solar Steam Generator module produces up to 500 kWth



Technological advantages

A solar technology simple, robust and cost effective

Simple modular conception

High local content

Automatic cleaning mirror robot

Low land usage

Lowest CapEx

Lowest Opex

Main Applications

1

Thermal Enhanced Oil Recovery

Steam injection to increase amount of oil extracted from an oil field

2

Industrial steam or hot water

Process steam for industrial consumers: food, mine, textile, chemical

3

Hybrid thermal power plant

Connection to an existing fossil fuel-fired power plant Power booster or fuel savings mode

4

Solar Power Plant

Standalone or grid connected solar power generation

Projects

CNIM has built the 1st molten salts boiler worlwide for a Tower CSP plant

Projects

CNIM's 500 kWth solar module in automatic operation since 2010

Projects

1st commercial Fresnel with energy storage to produce 20 GWh per year

9MWe CSP plant with 4 hours storage, Llo, France, 2018


CNIM
Innovate and Act


bpifrance


SUNCNIM