INSHIP

EUROPEAN COMMON
RESEARCH AND INNOVATION AGENDA

Horizon 2020
European Union funding
for Research & Innovation

Plataforma Solar de Almería (PSA-CIEMAT) Presentation

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PSA-CIEMAT

Institution	Plataforma Solar de Almería-CIEMAT
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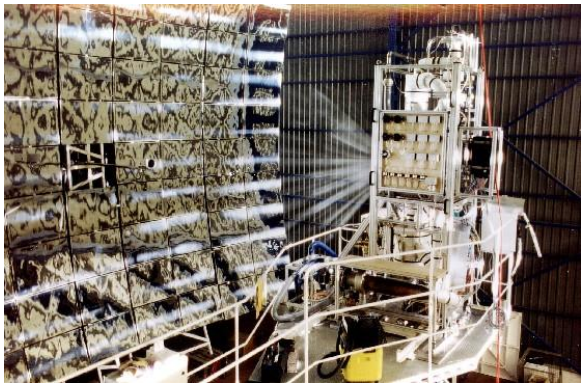
Mission Statement:

-Main technical-scientific goal is to contribute to the adaptation of CSP systems to SHIP applications while fostering the establishment of a joint European R&D framework on the topic.

-In parallel, to seek for the alignment of the related national policies and funding programs of Member States.

SHIP Competences:

- Thermal storage, materials for high solar fluxes, solar fuels, line-focus solar technology, point-focus solar technology
- Control & monitoring of CSP systems
- Solar assisted seawater thermal desalination
- Use of medium temperature solar heat to drive poly-generation processes: heat, power & cooling
- Design of solar fields for specific industrial applications



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SHIP Research Infrastructure:

- Power tower test facilities, parabolic trough collector test facilities with thermal oil and with direct steam generation.
- Molten-salt thermal storage test facility and materials lab.
- Solar MED Desalination Facility with 500 m2 field of stationary CPC collector, 25 m3 water thermal storage and 200 kW double effect (LiBr-H2O) absorption heat pump
- 500 kW STE+D Test Bed Facility
- Membrane Distillation Module Test Platform;
- Poly-generation facility based on a 125 kW Polytrough 1200 NEP Solar collector
- 5 kW ORC power facility
- Stationary Solar Collector Test Platform.

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Participation in INSHIP:

Work package involvement:	WP 1, WP 2, WP 3, WP 4, WP 5, WP 6, WP 7, WP 8
Person months (national + EC):	102 MM (65+37)

Objectives:

-Leading partner of WP6 (Integrated SHIP research infrastructures) and WP8 (Advanced Networking Activities).

-In addition, CIEMAT will actively participate in all WPs of the project, including the whole spectrum of RTD activities and with special emphasis on WP3 (Technology and Applications to Medium Temperature SHIP).