



Fondazione Bruno Kessler Presentation



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Institution	Fondazione Bruno Kessler, Applied Research on Energy Systems
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Mission Statement:

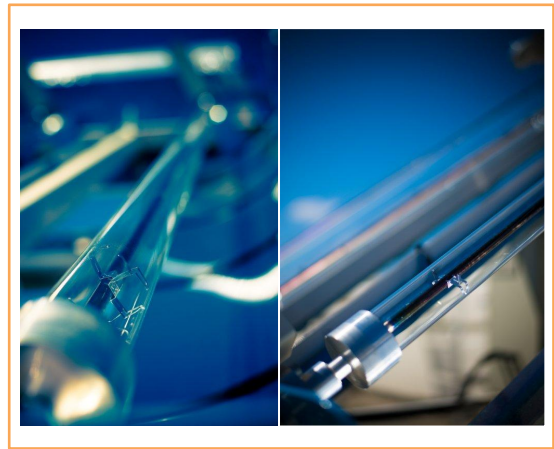
FBK - ARES believes that the efficient and effective implementation of innovative solar solutions to heat processes will contribute to balance our ecological footprint and grant our future.

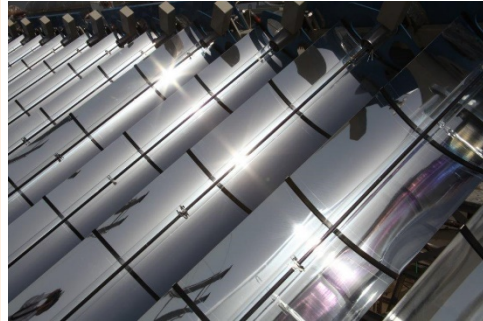
FBK - ARES promotes R&D on new energy solutions and aims at transfer them to the market collaborating with partners at industrial and territorial levels.

We have grown expertise and competences on small scale and low – medium temperature solar systems, on technology design, engineering and validation, conducting projects at local, European and International levels.

SHIP Competences:

- Design of components for low and medium temperature solar collectors
- Design of solar collectors and systems
- Dynamic modelling of solar plants
- Engineering of solar thermal components and systems
- Solar systems for process heat in rural areas
- Validation of solar components and systems





SHIP Research Infrastructure:

- Coating processes for solar absorbers (PVD, CVD, Plasma, ALD)
- Low temperature vacuum solar collectors with sorption cooling system
- Medium temperature solar platform, parabolic trough, up to 320°C
- Central receiver solar dish (9 m diameter) with cogeneration of electricity and heat



Participation in INSHIP:

Work package involvement:

WP 2, WP 3, WP4, WP5,
WP6, Wp7, WP8

Person months (national + EC):

72,0

Objectives:

FBK is leader of WP2, with the role of coordination in the WP activity for low temperature solar systems. Main objectives will be assessment of low temperature solar components and their application to process heat, durability, modularity and dynamic modelling.

FBK will contribute to solar concepts for medium temperature applications (WP3) and on receivers for high concentration concepts (WP4). FBK will support design of integrated and hybrid systems (WP5).