Horizon 2020
Marie Sklodowska Curie Actions
PROFILE FORM

Organization Name / Department	Centre of Research and Technologies of Energy	**Organization Short Name**	CRTEn/LTES
Organization Type	☐ University ☒ Public Research Centre ☐ Large Scale Enterprise ☐ Small and Medium Scale Enterprise	☐ Public Body ☐ International NGO ☐ National NGO	
Research Fields	☐ Chemistry **CHE** ☐ Social and Human Sciences **SOC** ☐ Economic Sciences **ECO** ☐ Information Science and Engineering **ENG** ☐ Environment and Geosciences **ENV** ☐ Life Sciences **LIF** ☐ Mathematics **MAT** ☒ Physics **PHY**	***Sub-Fields / Keywords:*** solar energy, domestic heating water, a complete mechanical and thermal bench for solar collectors	
Short Description of the Organization / Department	The Centre of research and technologies of energy CRTEn is a research and development structure in the Ministry of high education and scientific research. İts superfecy is 3500m². Six laboratries are integrated in this centre: LPV (photovoltaic), LSNA (semi-conducteurs, nanostructures and advanced technologies), LaNSER (nanomaterials and renewable energy systems) these laboratories are oriented to research on the electric conversion of solar energy. LPT (thermal processes), LMEEVED (Control of wind energy and energetic recovery of waste) and LTSEE (technologies of solar energy and energy efficiency). In these laboratories we focus on thermal solar energy conversion. The research fields of our laboratory LTSEE are thermal solar energy applications: SDHW, passive cooling/heating in buildings and CSP. We study the performances of solar collectors (flat/parabolic) by integrating new designs and absorbers and we develop their prototypes. The BESSB which is a department in the LTSEE has a great expertise in solar thermal collectors and the solar domestic heat water systems SDHW. It has a complete mechanical/thermal equipment to evaluate the performances of solar collectors. Sensors to measure thermal and mechanical characteristics are datalogged and stored. Modelisation and experimentation of absorption heat pump and liquid dessiccant air system are the main ativities in the passive cooling area. Studies are also carried on the thermal storage in terms of MCP materials.		
Previous Related Projects / Research Experience	Our laboratory was a member of several European consortium projects (SOLDES, OPENGEN (FP7), ERANETMED) and bilateral projects with Germany and Turkey.		

Short Description of the Project idea (if foreseeable)	The LTSEE laboratory has a complete mechanical/thermal equipment to evaluate the performances of solar collector. The objective of this project is to create a platform for thermal and mechanical datalogger parameters of solar thermal systems and to develop a code DST (dynamic thermal system) to asses the performances of all types of solar thermal system and to estimate the annual energy consumption for collective and individual installations of solar domestic heat water SDHW.
Related Call	**H2020-MSCA-** ***IF - 2019***
Contact Person	Kaouther Ben Nasr
Position in the Organization	Researcher and head of project
Tel	+21653484438
Email	Kaouther.bennasr@gmail.com