

List of proposals to which access has been granted					
Date: 16.05.2022				Access Campaign 2022	
Grant Agreement no. 823802				TA Coordinator: Ricardo Sánchez	
Project title	Project Acronym	Scientific field	Facility	Home Institution	Country
CEA					
Full Lifecycle Analysis of Specular and Hemispherical Reflectance using Xenon-Arc Lamp Exposure	FLASH RX	Material Science	OPTI-LAB, INDOOR	U.S. National Renewable Energy Laboratory	United States
Thermal and optical characterization of a durable CuCoMnOx spinel absorber coating	SOLINNO	Material Science	OPTI-LAB, INDOOR	Ecole polytechnique federale de Lausanne EPFL	Switzerland
CIESOL					
Modeling of Pilot-Scale (100 m ²) Solar Photo-Fenton Raceway Pond Reactors and Scale-up to Full Scale	MOSOLRPR	Engineering and Technology	CIESOL	Loughborough University	United Kingdom
Comparison of two photo-oxidation (POPs, solar and UV-based) POPs for efficient degradation of emerging persistent and mobile organic chemicals	FREE-PMOCs	Chemistry	CIESOL	Aristotle University of Thessaloniki	Greece
CYI					
Prototype HelioStat Optimized Control Using Sophisticated Techniques (Version 2)	PHOCUS2	Physics	ATHLAB	National and Kapodistrian University of Athens	Greece
Testing and Evaluating the Performance of Heat Exchangers of the Solar Forward Osmosis (Fo) Desalination Unit at the Proteas Facility Cyprus	FO - HX Testing	Earth sciences and environment	MED	Trevi Systems Inc	United States
Experimental Analysis of Solar Salt Heat Transfer Performance in Circular Pipes	EASSET	Engineering and Technology	MSLOOP	Politecnico di Milano	Italy
Validation of heliostat field Aiming Strategies 2	VAIMS2	Engineering and Technology	RECEIVER	Universidad Carlos III de Madrid	Spain
DLR					
Hybrid Thermionic-Photovoltaic devices for conversion of concentrated solar radiation with high output power density	HYTIPV	Energy	DLR_SYNLIGHT	Institute of Structure of Matter - National Research Council	Italy
MPPT for PVs based on metaheuristic algorithm under concentrated light	SDAforMPPT	Energy	DLR_SYNLIGHT	University Transilvania of Brasov	Romania
Scalability of Thermal Performances for Lining Solutions of High-Temperature Solar Receiver STEM	STP-STEM	Engineering and Technology	DLR_SYNLIGHT	Magaldi Power S.p.A.	Italy
ENEA					
Concentrator Optical Metrology Evaluation and Test	COMET	Energy	ESOL	U.S. National Renewable Energy	United States
SOFAST Comparison Measurement	SOFCOMM	Energy	ESOL	Sandia National Laboratories	United States
Analysis and improvement of novel model from optimization to full control of operational failures for solar energy supply process with low melting salt along heat exchanger Part 2	REEFS2	Energy	PCS	Ramboll	Norway
IMDEA					
Ca-doped lanthanum manganite perovskite coated ceria foams for solar thermochemical syngas production	SFPM	Material Science	HTPU-LAB	University of Isfahan	Iran
Passive Oxidation of alpha-SiC-based ceramic in a high-flux solar simulator	ODESSA	Material Science	KIRAN42	Laboratory of Thermal Sciences and	France
Plasma-enhanced solar thermochemical fuel production	PLASOL	Engineering and	IMDEA_KIRAN42	Institut Jean Le Rond d'Alembert	France
Analysis of PV-TEG Multi-Layer Hybrid Systems in Concentrated Light	MultiLHS	Energy	KIRAN42_VHCST	Transilvania University of Brasov	Romania
Terrestrial Laser Scanning for Cleanliness Assessment of Heliostat Fields	HelioScan	Physics	VHCST	Fraunhofer ISE	Germany
LIDAR for Maintenance and Monitoring of Solar Infrastructure	LIMMSI	Energy	VHCST	Ommatidia LIDAR	Netherlands
A Novel Technic for Soiling detections in Solar Towers using Night time Image processing	2STim	Energy	VHCST	Mohammed 1 st University	Morocco
Fraunhofer					
Experimental investigation of moisture effects on the soiling of solar	EIMSC	Engineering and	C-LAB	Politecnico di Milano	Italy
Bidirectional Reflectance Distribution Functions Measurement and	BRDF-MeMo	Physics	C-LAB	IMDEA Energy	Spain
Molten Salt for Industrial Supply of Heat	MOSISH	Energy	TES-LAB	Technical University of Denmark	Denmark
Cross comparison of high-temperature molten salt flowmeters	PROGRESS	Energy	TES-LAB	University of Birmingham	United Kingdom
Large-scale in situ study of advanced anticorrosion coatings for molten salts thermal energy storage applications	ADVANTICOATES	Engineering and Technology	TES-LAB	CIC energiGUNE	Spain
LNEG					
Durability testing of a new developing composite antisoiling coating on glass solar mirrors	DurableASC	Material Science	LNEG_LMR-LES	MASCIR	Morocco
ETHZ					
Alternative and sustainable synthesis of solar ammonia from water and air via thermochemical cycles	SOLAM	Engineering and Technology	PREC_CHEM	Institut Jean Le Rond d'Alembert	France
CNRS-PROMES					
Ce:Nd:YAG multi-beam solar laser	Ce Nd YAG	Physics	MSSFs	New University of Lisbon	Portugal
Nanostructured oxides layers by SPVD for enhance Solar Cell efficiency	NOSC	Material Science	MSSFs	University of Pitești	Romania
Qualification of PEO aluminium titanate thermal barrier coatings on titanium	TiPEO	Material Science	MSSFs	University of Pitești	Romania
Improving the properties of A6 steel 3D printed and nickel-plated parts by solar treatment	IP-3DSOLT	Material Science	MSSFs	Transilvania University of Brasov	Romania
Solar Absorber Particle Screening and Evaluation	SOLAPSE	Material Science	MSSFs	German Aerospace Center (DLR)	Germany
Solar-driven Calcination of Natural Geological Materials in a Fluidized Bed Reactor for Thermochemical Energy Storage	SolMat4TCES	Energy	MSSFs	Instituto Superior Técnico	Portugal
Solar Pyrolysis of heavy metals Contaminated Biomass	SPyCoB	Energy	MSSFs	University of Napoli Federico II	Italy
Novel ceramic for thermionic emitters under concentrated sunlight	ORCHIDS	Energy	MWSF	National Research Council	Italy
CIEMAT-PSA					
Control strategies for zero liquid discharge with solar membrane distillation technology	Control4ZLD	Engineering and Technology	DESAL	University of Brescia	Italy
Solar powered membrane distillation with graphene oxide membranes: implementation of circular economy and life cycle assessment principles	GOSOLARLCA	Material Science	DESAL	University of Manchester	United Kingdom
Evaluation of the effect of nanobubbles as regenerating agent in advanced nanocomposite membranes for solar membrane distillation.	CarDiNaLMD	Engineering and Technology	DESAL	NCSR	Greece
Hybrid cooling solutions for water savings in solar thermal power plant	WATSOL	Energy	DESAL	University of Huddersfield	United Kingdom
Thermal Shock Resistance evaluation of silicon carbide foams for potential Open Volumetric Air Receivers under concentrated solar radiation	TSR-OVAR	Material Science	SOLFU	Laboratório Nacional de Energia e Geologia (LNEG I.P.)	Portugal
Solar sintering of tungsten borides	WBSolar	Material Science	SOLFU	Institute of Materials and Machine Mechanics SAS	Slovakia
Experimental validation of double paraboloid reflection for obtaining quasi-homogeneous distribution of concentrated solar flux	HOMOFUX	Engineering and Technology	SOLFU	Instituto Superior Tecnico	Portugal
Enhanced Air-based Tubular Receivers equipped with Raschig Rings porous medium	EATR-RR	Energy	SOLFU	Politecnico di Torino	Italy
Closed cycle for Iron catalysts in Solar Fenton process	CISFproc	Earth sciences and environment	SOLWATER	University of Coimbra	Portugal
Contaminants of Emerging Concern removal by g-C ₃ N ₄ in Solar Photocatalytic Ozonation	SO3C3N4	Engineering and Technology	SOLWATER	University of Coimbra	Portugal
Solar-based processes combined With Adsorption Technologies for Microcontaminant elimination from wastewater	SO-W(H)AT	Engineering and Technology	SOLWATER	University of Luxembourg	Luxembourg

