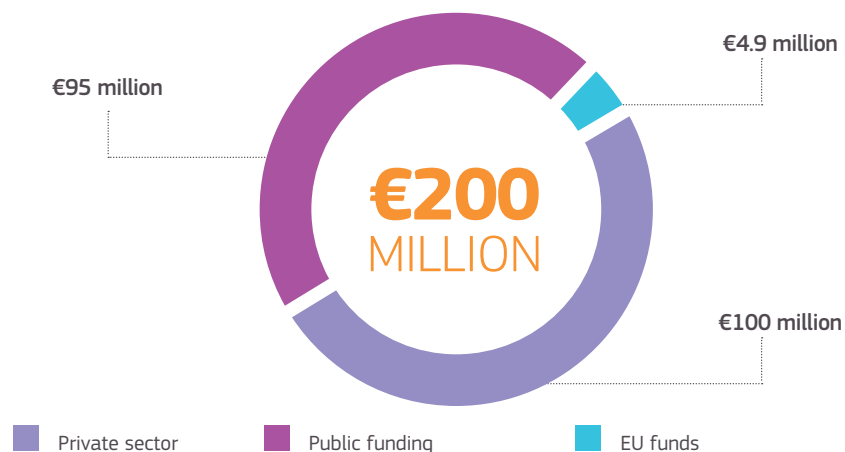


CONCENTRATED SOLAR POWER/SOLAR THERMAL ELECTRICITY IP

Concentrated Solar Power (CSP) technology, also defined as Solar Thermal Electricity (STE), can help transform the energy system by providing renewable electricity on demand. CSP/STE enables grid flexibility and supports the integration of renewable energy sources like photovoltaic and wind energy. This Implementation Plan aims at significantly reducing the cost of current technology and developing the next generation of technology. This implementation is supported by a Horizon 2020 Coordination and Support Action (www.horizon-ste.eu). To demonstrate CSP/STE innovations in Europe, three FOAK (First-of-a-Kind) projects will be implemented by industry, and public support will also be sought (e.g. via the InnovFin Energy Demonstration Projects facility) - budget up to EUR 1 billion 2017-2020/2022.

OVERALL INVESTMENT TO BE MOBILISED FOR CONCENTRATED SOLAR POWER/SOLAR THERMAL ELECTRICITY FOR 2017-2022



EXAMPLES OF R&I ACTIVITIES

CSP ERANET

Joint programming actions by a public-public partnership across 12 Member States foster innovative CSP solutions by bridging the gap between research and industry. This includes eight of the twelve R&I topics defined in the Implementation Plan.

Expected budget: €15.5 million 2019-2024

THERMAL ENERGY STORAGE (R&I ACTIVITY NO.9)

The intention is to develop thermal storage by using volumetric energy density or higher temperatures, and achieve technology readiness level 6-7 in seven years. In focus is the reliability of the systems, the associated subsystems and availability of materials.

Budget: €10 million 2017-2023

Who's involved ?

11 COUNTRIES

Belgium, Cyprus, France, Germany, Italy, Portugal, Spain (Chair), Switzerland, Greece, Turkey and Israel.



STAKEHOLDERS

European Association of Gas and Steam Turbine Manufacturers (EUTurbines) and European Solar Thermal Electricity Association (ESTELA).