

Mapping report on funding instruments for energy innovation

The document “Mapping report on funding instruments for energy innovation” has been developed by ZABALA, EASE and reviewed by all other partners of the SMARTSPEND project. This report provides a mapping on public and private funding instruments for energy innovation, which can support energy technology R&I. The guide provides an outlook of the available trans-national, national and regional funding instruments, in order to support the coordination of the industrial participation in the SET Plan, in particular from the industry-driven associations and initiatives such as the European Technology and Innovation platforms (ETIPs), European Joint Technology Initiatives or other relevant public-private partnerships, and importantly the industrial actors identified in the 13 non-nuclear SET Plan implementation plans.

For the public funding instruments, the document provides an outlook of the available trans-national, national and regional funding instruments. To achieve a well-balanced European guide of public funding instruments, a balanced choice has been made considering the degree of innovation of the analysed area (country/region) and its innovation performance in the last years.

For the private funding sector, the mapping was based on the screening of the most representative specialized investors (mainly Venture Capitalist and Angels investors) in the energy and environmental sector in accordance with their financing stage (Private Company Lifecycle) and notably Seed, Early stage and Mid expansion. Financial institutions are not included in the scope of the screening for private sector funding.

The report serves as a reference document for clean energy project developers, administrators, European, national and regional policymakers and other energy stakeholders. This information is intended to assist industry in considering their funding needs, in particular to finance first-of-a-kind, commercial-scale demonstration projects in the field of Energy (FOAK projects).

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The approach of this guide is not to describe every funding source, but rather to focus on a broad selection of specific and/or innovative funding sources for clean energy that may be useful for the industrial sector.

This document will be updated in month 30 (May 2021) and issued as D2.2 within the WP2 - Further define adequate financial strategies of the SMART SPEND project.

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Report on the Analysis of the industry's funding needs for the implementation of the SET Plan

The document “Analysis of the industry's funding needs for the implementation of the SET Plan” has been developed by ZABALA. The objective of this report was to perform an analysis of the funding needs of European industry to realise the respective Implementation plans to be carried out by each of the ETIPs involved in SMARTSPEND project. The document particularly looked at existing funding instrument gaps and the analysis has been developed together with the projects funded under the JA-2 call. To develop this report, a series of consultations were undertaken including a questionnaire with 105 participants and interviews to relevant stakeholders from different sectors (Energy Systems, Photovoltaics, Energy Efficiency Solutions for Buildings, Energy Efficiency in Industry and Smart Cities). The main areas of interest of the questionnaire were related to existing funding mechanisms' gaps for the implementation of the SET Plan, existing funding mechanisms' barriers (e.g. administrative, legal, fiscal), sector specific issues and needs of the sector. The complete list of interviewed companies and who carried out the interview has been included in the Annex III of the report. Via the open questions in the questionnaire and the phone interviews conducted with some of the participants, it was possible to identify other funding mechanisms and other barriers than those mentioned in the questionnaire. Importantly, a better understanding of the industries views and concerns was developed beyond the statistical/quantitative analysis of each analysed funding mechanism. A quantitative and

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qualitative analysis of the industry's experience on funding mechanisms and entities is presented in the report. The document takes into consideration the need for financial contributions from public and private funding sources at different levels and analyses the main constraints (bureaucratic, administrative, legal) which can compromise the regular execution of R&I activities and implementation of the SET Plan. A better understanding of the industries' views and concerns was developed with reference to potential measures and improvements in the fields of funding mechanisms, project management, funding applications, budget and reporting, amongst others. The main findings on the industry's funding needs for the implementation of the SET Plan, as collected from the quantitative and qualitative analysis of the feedbacks provided by the participants, are presented in the conclusions of this report. The conclusions are related to specific funding needs for the scale up of specific entities (like SMEs), for certain categories of projects (like those that produced working prototypes or demonstrators) and for specific types of technologies (like market-uptake and manufacturing in cutting edge technologies). In the conclusions are also highlighted some specific needs for more funding for certain funding schemes or the need to consider different types of indicators for receiving the funding. Other conclusions are also related on how to make certain funding schemes more attractive. The Authors of the report are José Trindade; Juan Sanciñena; Luca Pira, Marie Latour from ZABALA.

