European Technology and Innovation Platform on Renewable Heating and Cooling

SRIA 2020 for Geothermal
Funding opportunities to implement this SRIA
24th of September 2020
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Updated WP 2018-2020

• Topics:

1) about “Renewable energy-based systems for district heating and cooling (DHC) and for cogeneration of heat and power (CHP)”

2) Geothermal lithium for next generation batteries

3) Geothermal h&c + UTES for Building and renovating in an energy and resource efficient way

4) Geothermal de-icing, h&c.. for Green airports and ports as multimodal hubs for sustainable and smart mobility

A €1 billion call

September 2020: Publication and opening of the call

26 January 2021: Deadline for submitting project proposals
Innovation Fund

• Innovation Fund first call for commercial-scale demonstration funding opened in July 2020.

• The Fund is also open to small-scale projects with total capital costs under €7.5 million which can benefit from simplified application and selection procedures.

• For small-scale projects, the application process will have only one stage.

• The first call for proposals was only for large-scale projects and it is open until 29 October 2020.

https://ec.europa.eu/clima/policies/innovation-fund_en
Call for proposals published

October 29: Deadline for submitting project proposals for large-scale projects. Later for small-scale projects
Modernization Fund

• This goes live on 1st January 2021.

• CEE Member States can access this fund to support energy infrastructure investments which reduce GHG emissions, improve energy networks and save energy.
Next Generation – EU Recovery package

• €750 billion (€500 billion in grants and €250 billion in loans) which comes from Commission borrowing.

• This money is to be spent quickly to stimulate the economy.

• The European Recovery & Resilience Facility supports investments in National Energy & Climate Plans (NECPs), Just Transition Plans as well as Partnership Agreements and Operational Programmes in the Cohesion fund.

• The Strategic Investment Facility provides €150 billion for strategic sectors such as energy as well as the green and digital transition
up to €310 billion in grants and up to €250 billion in loans. The Facility will be demand-driven and powered by an emergency European Recovery Instrument, ‘Next Generation EU’, amounting to €750 billion, National and EU projects backed by Member States Grants & Loans

Send to EC + MS a list of projects

2nd Semester 2020: EU negotiation on budget
Horizon Europe: WP 2021-2022

First draft September 2020

Topics mentioned:

1) Destination 3 – Sustainable, secure and competitive energy supply:
   a) Global leadership in renewable energy
      - 2022: Innovative renewable energy carrier production for heating from renewable energies
      - 2021: Retrofiting existing power, heating or combined heat and power generation stations
      - 2021/2022: 100% renewable heating, cooling and power in buildings
   b) Energy systems, grids and storage
      - 2022: Energy Sector Integration: Integrating and combining power, heat, gas and other sectors (industry and mobility)
      - 2022: Large scale thermal energy storage for district heating and cooling
      - 2022: Development of different forms of storage for future integration into innovative energy systems and grid architectures
2) Destination 4 – Efficient, sustainable and inclusive energy use:
   Global leadership in renewable energy

a) Highly energy-efficient and climate neutral EU building stock >
   several calls
b) Industrial facilities in the energy transition:
   - 2021: Full-scale demonstration of heat upgrade technologies with
     supply temperature in the range 100 - 150°C
   - 2022: Development and pilot demonstration of heat upgrade
     technologies with supply (sink) temperature in the range 150-250°C

3) Others
   - Market Uptake Measures of renewable energy systems
Calls on geothermal:

- 2021: Innovative concepts for prediction and assessment of low and high temperature geothermal resources
- 2021: Demonstration of zero emissions power plant
- 2022: Demonstrate the use of high temperature geothermal reservoirs to provide energy storage for the energy system
- 2022: Solutions for more sustainable geothermal energy