

Destination 3

Renewable Energy

Renewable Fuels



RENEWABLE FUELS

		Per topic	Per project
HORIZON-CL5-2027-02-D3-08: Co-funding Strategic Energy Technology (SET) Plan renewable fuel value chains at EU, national, regional, and local level	Co-Fund	30M€	30M€

Expected Outcome

- Support **realization** of the **SET Plan** Action of **Renewable fuels** and Bioenergy;
- Establish **interregional value chains** of renewable fuel technologies **across EU**;
- Create **consciousness** among public (national/regional/local) authorities for facilitating market up-take;
- Better **align** public and private **R&I priorities** and **funding** mechanisms;
- Have highest possible **flexibility** in supporting the challenges, enabling many activity types;
- **Engage** and **benefit all** sector stakeholders (EU, SET Plan countries, regions, communities, etc.) from R&I Cofund;
- Create **synergies** and **critical mass** to overcome **fragmentation** of the value chains and **implement** R&I activities;
- Improve **access** to better financing **across funding schemes** and from more effective **market uptake**;
- Improve **security** of **a portfolio** of renewable fuel technologies in more **homogeneous marketplace**;
- **Accelerate permitting** procedures and increase the **public acceptance** of innovative and sustainable renewable fuel projects

Main challenges remain

- High **fragmentation** across Europe (different regions have different capacities in feedstock, technology), **supply chain** uncertainties and **inhomogeneous** marketplace

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Scope

- Create **connected regional** renewable fuel value chain **activities across** Europe**,** involving regions with lower innovation performances, by sharing and transferring capacities and know-how**.**
- Create **collaboration** at EU, national, regional or local level to collectively develop and implement complete value chains of renewable fuel technologies
    i. Basis Implementation Plan (IP) and its updated version(s) of the Implementation Working Group (IWG) of Renewable fuels and Bioenergy under the revamped SET Plan
    ii. In scope also new identified interregional and transnational challenges across value chains, e.g. feedstock standardization, permitting fragmentation, lack of fit-for-purpose business models in rural regions, using artificial intelligence as appropriate
    iii. Activities should draw from the detailed R&I activities program of the IP of the SET Plan Action Renewable Fuels and Bioenergy (Annex I) regarding development, demonstration (also at pilot scale) and scale-up
    iv. All renewable fuel technologies (advanced liquid and gaseous biofuels, other renewable liquid and gaseous fuels, solid, liquid and gaseous intermediate bioenergy carriers are in scope
    v. R&I at all TRL, pilot actions, market uptake measures, networking and coordination, training and mobility, awareness raising and communication, and dissemination and exploitation are in scope
    vi. Input from the Implementation Working Group on Renewable Fuels and Bioenergy, ETIP Bioenergy, EERA Bioenergy and the SET Plan Direct Solar Fuel forum
- Hydrogen production as end-product and heat and power production not in scope

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Implementation

- **One project** developing and implementing **a joint** comprehensive **plan of activities**, including an appropriate set of research projects, demonstration projects, technology transfer projects and other activities
- Organize joint transnational calls on an annual basis and will consider ample time for the implementation of the co-funded projects, notably before its end - duration of 5 years
- Participation of public interest legal entities such as state, and notably regional and local authorities, which may have particular interest in regional development of renewable fuel value chains encouraged
- Expect partners from **Eastern Europe** who could enable solutions, thus strengthening their engagement in the SET Plan
- Learn from expertise of **ERA-NET Bioenergy** network, EU ERA-NET **BESTF3, LEAP-SE** EU-AU R&I Partnership on Sustainable Energy
- Financial Support to Third Parties Calls in the form of grants
    - Incorporate the provisions on ‘financial support to third parties’ set out in Annex B of the General Annexes (consult European Commission’s guidance on FSTP activities)
    - Address broad EU geographical balance, open to any public or private entities, including SMEs
    - Eligibility extended to participants established in any EU MS and AC
    - EUR 500 000 is maximum amount of FSTP to be granted to each third party to support concrete R&I interregional projects to be undertaken by research and innovation entities and stakeholders
- Develop and carry out coordination and clustering activities of the co-funded projects and with other Horizon Europe projects - contribute to the Knowledge Community of the CET Partnership
- **SETDEPLOY** webinars for mobilization and matchmaking in support of SET Plan’s related IWG (8)

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