

Dnr: 2021-03954

Reviderad 2022-01-12

Främja svenskt deltagande i Horisont Europa; planeringsprojekt inom Hållbar industri

Bilaga 1 / Appendix 1

– Utpekade områden ("topics") i utlysningen från Horisont Europas arbetsprogram

Den här bilagan innehåller listan på aktuella "topics" inom Horisont Europa som det går att söka planeringsbidrag för. Observera att listan på "topics" är baserad på publicerade arbetsprogram (se nedan). Om EU-kommissionen kommer med ny information kan listan eventuellt uppdateras. Om det blir aktuellt kommer den här bilagan uppdateras och information läggas ut på utlysningens hemsida. Vinnova planerar att fortsätta erbjuda planeringsprojekt och det kommer under hösten 2022 gå att ansöka om planeringsprojekt för utlysningarna inom Horisont Europa som stänger under våren 2023.

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Arbetsprogram

Länkar till arbetsprogram där Horisont Europa utlysningarna beskrivs:

Kluster 4 *Digital, Industry and Space*: [wp-7-digital-industry-and-space_horizon-2021-2022_en.pdf \(europa.eu\)](https://ec.europa.eu/horizon/wp7-digital-industry-and-space-horizon-2021-2022_en.pdf)

Kluster 5 *Climate, Energy and Mobility*: [wp-8-climate-energy-and-mobility_horizon-2021-2022_en.pdf \(europa.eu\)](https://ec.europa.eu/horizon/wp8-climate-energy-and-mobility_horizon-2021-2022_en.pdf)

Kluster 6 *Food, Bioeconomy, Natural Resources, Agriculture and Environment*: [wp-9-food-bioeconomy-natural-resources-agriculture-and-environment_horizon-2021-2022_en.pdf \(europa.eu\)](https://ec.europa.eu/horizon/wp9-food-bioeconomy-natural-resources-agriculture-and-environment_horizon-2021-2022_en.pdf)

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Aktuella topics

Vid ansökningstillfället som stänger 30 mars 2022 kommer det gå att ansöka om planeringsprojekt för följande utlysningar inom Horisont Europa:

Cluster 4

Call - Digital and emerging technologies for competitiveness and fit for the green deal

Graphene: Europe in lead

- HORIZON-CL4-2022-DIGITAL-EMERGING-02-17: New generation of advanced electronic and photonic 2D materials-based devices, systems and sensors (RIA)
- HORIZON-CL4-2022-DIGITAL-EMERGING-02-18: 2D materials-based devices and systems for energy storage and/or harvesting (RIA)
- HORIZON-CL4-2022-DIGITAL-EMERGING-02-19: 2D materials-based devices and systems for biomedical applications (RIA)
- HORIZON-CL4-2022-DIGITAL-EMERGING-02-20: 2D-material-based composites, coatings and foams (IA)
- HORIZON-CL4-2022-DIGITAL-EMERGING-02-22: Supporting the coordination of the Graphene Flagship projects (CSA)

Cluster 5

Call - Cross-sectoral solutions for the climate transition

A competitive and sustainable European battery value chain

- HORIZON-CL5-2022-D2-01-01: Sustainable processing and refining of battery grade graphite (Batteries Partnership)
- HORIZON-CL5-2022-D2-01-02: Interface and electron monitoring for the engineering of new and emerging battery technologies (Batteries Partnership)
- HORIZON-CL5-2022-D2-01-03: Furthering the development of a materials acceleration platform for sustainable batteries (combining AI, big data, autonomous synthesis robotics, high throughput testing) (Batteries Partnership)
- HORIZON-CL5-2022-D2-01-04: Towards creating an integrated manufacturing value chain in Europe: from machinery development to plant and site integrated design (Batteries Partnership)
- HORIZON-CL5-2022-D2-01-05: Next generation technologies for High-performance and safe-by-design battery systems for transport and mobile applications (Batteries Partnership)

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- HORIZON-CL5-2022-D2-01-06: Embedding smart functionalities into battery cells (embedding sensing and self-healing functionalities to monitor and self-repair battery cells) (Batteries Partnership)
- HORIZON-CL5-2022-D2-01-07: Digitalisation of battery testing, from cell to system level, including lifetime assessment (Batteries Partnership)
- HORIZON-CL5-2022-D2-01-08: Coordination of large-scale initiative on future battery technologies (Batteries Partnership)
- HORIZON-CL5-2022-D2-01-09: Physics and data-based battery management for optimised battery utilisation (Batteries Partnership)
- HORIZON-CL5-2022-D2-01-10: Streamlined collection and reversed logistics, fully automated, safe and cost-efficient sorting, dismantling and second use before recycling (Batteries Partnership)

Call - Sustainable, secure and competitive energy supply

Global leadership in renewable energy

- HORIZON-CL5-2022-D3-02-01: Digital solutions for defining synergies in international renewable energy value chains
- HORIZON-CL5-2022-D3-02-03: Innovative renewable energy carrier production for heating from renewable energies
- HORIZON-CL5-2022-D3-02-04: Technological interfaces between solar fuel technologies and other renewables
- HORIZON-CL5-2022-D3-02-05: Renewable energy carriers from variable renewable electricity surplus and carbon emissions from energy consuming sectors
- HORIZON-CL5-2022-D3-02-06: Direct renewable energy integration into process energy demands of the chemical industry
- HORIZON-CL5-2022-D3-02-08: Demonstration of complete value chains for advanced biofuel and non-biological renewable fuel production

- HORIZON-CL5-2022-D3-03-01: Innovative components and/or sub-systems for CSP plants and/or concentrating solar thermal installations
- HORIZON-CL5-2022-D3-03-02: Best international practice for scaling up sustainable biofuels
- HORIZON-CL5-2022-D3-03-03: Efficient and circular artificial photosynthesis
- HORIZON-CL5-2022-D3-03-05: Novel Thin Film (TF) technologies targeting high efficiencies
- HORIZON-CL5-2022-D3-03-06: Efficient and low-emission technologies for industrial use of combustion and gasification systems from low-value biogenic residues and wastes
- HORIZON-CL5-2022-D3-03-09: Recycling end of life PV modules

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Call - Efficient, sustainable and inclusive energy use

Industrial facilities in the energy transition

- HORIZON-CL5-2022-D4-01-04: Development and pilot demonstration of heat upgrade technologies with supply temperature in the range 150-250°C
- HORIZON-CL5-2022-D4-01-05: Development of high temperature thermal storage for industrial applications