# European Green Deal

***“Europe’s ‘man on the moon’ moment”***

[Green deal calls](https://www.innovationisrael.org.il/ISERD/calls-proposals-page?title=Green+deal&term_node_tid_depth=All&tid_1=All)

|  |  |  |  |
| --- | --- | --- | --- |
| **Financing** | | | |
| **\*Type of action** | **Code** | **Funding Rate** | **Description** |
| **Research & Innovation Action** | RIA | 100% | [click here](https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-d-ria_en.pdf) |
| **Innovation Actions** | IA | 70% | [click here](https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-d-ia_en.pdf) |
| 100% For non-profit legal entities | |
| **Coordination and support actions** | CSA | 100% | [click here](https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-d-csa_en.pdf) |
| **In addition to these funding percentages, overhead up to 25% will be given.** | | | |

[You Tube: The European Green Deal](https://www.youtube.com/watch?v=nEWiL7A9kIY)

[CORDIS data base](https://cordis.europa.eu/project/id/745586)

[Partner Search](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/partner-search)

[European Green Deals](https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal_en)

The webinar series regarding past calls for proposals (presentations and recordings)

are available on this link:

[click here](https://www.innovationisrael.org.il/ISERD/green-deal-webinars)

**20 CALL TOPICS – Deadline: 29/01/2021**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Area 2: Clean, affordable and secure energy** | | | | |
| **CODE** | **TOPIC** | **Budget in M€** | | **Type of Action** |
| **Total** | **Project** |
| [LC-GD-2-1-2020](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gd-2-1-2020%3BfreeTextSearchKeyword%3DLC-GD-2-1-2020%3BtypeCodes%3D1%3BstatusCodes%3D31094501%2C31094502%2C31094503%3BprogramCode%3DH2020%3BprogramDivisionCode%3Dnull%3BfocusAreaCode%3Dnull%3BcrossCuttingPriorityCode%3Dnull%3BcallCode%3DDefault%3BsortQuery%3DsubmissionStatus%3BorderBy%3Dasc%3BonlyTenders%3Dfalse%3BtopicListKey%3DtopicSearchTablePageState) | **Innovative land-based and offshore renewable energy technologies and their integration into the energy system** | Subtopic 1:  18  Subtopic 2:  68 | Subtopic 1:  3-6  Subtopic 2:  25-30 | Subtopic 1: RIA  Subtopic 2: IA |
| **Asaf Aharon**  [Asaf.Aharon@iserd.org.il](mailto:Asaf.Aharon@iserd.org.il)  **Sarit Kimchi**  [Sarit.Kimchi@iserd.org.il](mailto:Sarit.Kimchi@iserd.org.il)  03-5118191 | **Subtopic 1**: ***Development of land-based renewable energy technologies and their integration into the energy Detection & Response***   1. Develop innovative solutions for either district heating and/or cooling systems or CHP, which allow satisfying a significant or possibly total share of the energy demand 2. Combine at least two or more renewable energy sources and/or two or more renewable energy technologies. 3. Daily/seasonal availability of the renewable energy sources have to be properly taken into account. 4. Projects should assess the sustainability of the proposed solutions in environmental, social and economic terms. 5. For DHC systems, the integration of sources of otherwise wasted excess heat or cold as well as the interfacing with existing heating or cooling distribution networks can be considered.   For CHP solutions, the minimum capacity in terms of power supply should be 2,5  **Subtopic 2**: ***Demonstration of innovative technologies to enable future large scale deployment of offshore renewable energy***   1. Demonstrate all potential impacts on the future roll-out of large-scale, sea critical, offshore renewable energy innovations, considering the efficiency, reliability, sustainability and circularity that is needed in all areas of the offshore renewable energy system. 2. Offshore renewable energy power generating systems: innovative integrated offshore (floating) wind, wave, tidal and/or solar systems, on a floating or fixed-bottom substructure, considering the varied subsea and metocean conditions.   **And/or**   1. Grid infrastructure: real life demonstration of innovative Direct Current (DC), AC/DC hybrid technologies and systems as a supporting step towards large offshore DC, AC/DC hybrid | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | grids (e.g. multi-vendor Multi-Terminal HVDC (MT HVDC) systems, grid   1. forming converter, HVDC diode rectifiers, Modular Multilevel Converters (MMC), DC Circuit Breaker (DCCB); DC/DC converter and DC/power hub) and their control and management   systems  **Projects may also include:**   1. Power to X /storage systems to maximise the use of offshore resources and increase the system resilience.   **Proposals should address**:   1. Industrial design and manufacturing processes, circularity, scalability, installation methods, transport, operation & maintenance, supply chains and the related digital infrastructures. 2. Regulatory, market and financial challenges. 3. Marine spatial planning issues (making multi-use of the seas possible, barriers such as costs, public acceptance and vulnerability to changing climate conditions in offshore areas | | | |
| **CODE** | **TOPIC** | **Budget in M€** | | **Type of Action** |
| **Total** | **Project** |
| [LC-GD-2-2-2020](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gd-2-2-2020%3BfreeTextSearchKeyword%3DLC-GD-2-2-2020%3BtypeCodes%3D1%3BstatusCodes%3D31094501%2C31094502%2C31094503%3BprogramCode%3DH2020%3BprogramDivisionCode%3Dnull%3BfocusAreaCode%3Dnull%3BcrossCuttingPriorityCode%3Dnull%3BcallCode%3DDefault%3BsortQuery%3DsubmissionStatus%3BorderBy%3Dasc%3BonlyTenders%3Dfalse%3BtopicListKey%3DtopicSearchTablePageState) | **Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and commercial/industrial applications** | 10-20 | 60 | IA |
| **Contact** | Operate and install a 100 MW electrolyser to produce renewable hydrogen, as an energy carrier. Mandatory Cross border dimension and knowledge sharing within Europe: organize 3 workshops, out of which 2 in European countries, outside of the beneficiary’s main implantation, involving policy makers and energy stakeholders   1. Install and operate a 100 MW electrolyser for managing and using power efficiently (electricity and heat), as well as water, hydrogen and oxygen flows. 2. Increase the efficiency of the electrolyser reaching an energy consumption of 49 (ALK) to 52 (PEM) kWh/kg H2 at nominal power; Increase the current density to 1A/cm2 (ALK) or 3A/cm2 (PEM) and delivery pressure to 30 bar; Reduce the electrolyser CAPEX by 20% down to   €480/kW and €700/kW for Alkaline & PEM electrolysers respectively   1. Demonstrate the increased usage and economic impact of RES mix, addressing potential curtailment issues in demand response operation (if grid connected) or island mode functioning 2. Operate an electrolyser system in real life conditions in an industrial or port environment, for example feeding a mobility hub, a fertiliser production plant, a synthetic fuel production plant, a biorefinery or other industries injecting in NG transmission grid type of application 3. Demonstrate ste of future economic viability of the technology, depending on cost of   electricity and hours of operation of electrolyser; Reduce footprint and address safety issues | | | |
| **Asaf Aharon**  [Asaf.Aharon@iserd.org.il](mailto:Asaf.Aharon@iserd.org.il)  **Sarit Kimchi**  [Sarit.Kimchi@iserd.org.il](mailto:Sarit.Kimchi@iserd.org.il)  03-5118191 |

|  |  |  |  |
| --- | --- | --- | --- |
| **CODE** | **TOPIC** | **Budget in M€** | **Type of** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **Total** | **Project** | | **Action** |
| [LC-GD-2-3-2020](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gd-2-3-2020%3BfreeTextSearchKeyword%3DLC-GD-2-3-2020%3BtypeCodes%3D1%3BstatusCodes%3D31094501%2C31094502%2C31094503%3BprogramCode%3DH2020%3BprogramDivisionCode%3Dnull%3BfocusAreaCode%3Dnull%3BcrossCuttingPriorityCode%3Dnull%3BcallCode%3DDefault%3BsortQuery%3DsubmissionStatus%3BorderBy%3Dasc%3BonlyTenders%3Dfalse%3BtopicListKey%3DtopicSearchTablePageState) | **Accelerating the green transition and energy access Partnership with Africa** | 4-8 | 40 | | IA |
| **Contact** | Demonstrate innovative climate adaptation, mitigation, and sustainable energy solutions, in the African social, economic and environmental contexts, providing sustainable energy access (electricity/cooking), or creating improved health, economic wealth and jobs.  Demonstration installation will be located in Africa, addressing:   1. Design, construction and operation; 2. Renewable energy sources; 3. Solution for off-grid communities, and their integration into existing energy system; 4. Energy efficiency in urbanized and rural contexts; 5. Water-Energy-Food nexus, 6. Development and implementation of a tailored value chain approach, identifying suitable manufacturing value chains, based on local material supply chain and workforce   Further conditions:   1. Include African partners to implement the project. 2. Copernicus data and products can support the optimal location of infrastructures, solar and coastal marine energy, and to evaluate the impact on the environment (and human).   This topic includes Social sciences aspects | | | | |
| **Rachel Loutaty**  [rachel.l@iserd.org.il](mailto:rachel.l@iserd.org.il)  03-5118152 |
| **Area 3: Industry for a clean and circular economy** | | | | | |
| **CODE** | **TOPIC** | **Budget in M€** | | **Type of Action** | |
| **Total** | **Project** |
| [LC-GD-3-2-2020](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gd-3-2-2020%3BfreeTextSearchKeyword%3DLC-GD-3-2-2020%3BtypeCodes%3D1%3BstatusCodes%3D31094501%2C31094502%2C31094503%3BprogramCode%3DH2020%3BprogramDivisionCode%3Dnull%3BfocusAreaCode%3Dnull%3BcrossCuttingPriorityCode%3Dnull%3BcallCode%3DDefault%3BsortQuery%3DsubmissionStatus%3BorderBy%3Dasc%3BonlyTenders%3Dfalse%3BtopicListKey%3DtopicSearchTablePageState) | **Demonstration of systemic solutions for the territorial deployment of the circular economy** | 60 | 10 - 20 | IA | |
| **Contact** | Build sustainable, regenerative and just circular economy, demonstrate concrete systemic solutions for the territorial deployment of the circular economy in territorial cluster in Europe, and facilitate their replication. Demonstrate R&I systemic solutions for the territorial deployment of the circular economy at the level of governance closest to citizens.   1. Increase the clusters’ overall resource efficiency and reduce GHG emissions**;** 2. Increase circularity in clusters’ key economic sectors**;** 3. Create jobs and new business opportunities**;** 4. Replication: lay the foundation for systemic solutions for the territorial deployment of circular economy in other areas**;** 5. Multiply the territorial economic, social and environmental benefits provided by each cluster to achieve policy targets at national and European level; 6. Engage, train, support, coordinate and facilitate the cooperation between key actors constituting each cluster: administrations, industry (including SMEs), scientific community and civil society; 7. Develop and demonstrate science, technology, governance, economic, social and environmental solutions to increase the circularity in key economic sectors such as waste, water, food, feed, wood, terrestrial and aquatic bio-based value chains, textile, plastics, | | | | |
| **Asaf Aharon**  [Asaf.Aharon@iserd.org.il](mailto:Asaf.Aharon@iserd.org.il)  **Sarit Kimchi**  [Sarit.Kimchi@iserd.org.il](mailto:Sarit.Kimchi@iserd.org.il)  03-5118191 |

electrical and electronic equipment, construction and buildings;

8. Ensure the exchange of relevant information and experiences within and across clusters and with other actors not involved in the proposals**.**

TRL 6-7

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Area 4: Energy and resource efficient buildings** | | | | |
| CODE | TOPIC | **Budget in M€** | | **Type of Action** |
| **Total** | **project** |
| [LC-GD-4-1-2020](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gd-4-1-2020%3BfreeTextSearchKeyword%3DLC-GD-4-1-2020%3BtypeCodes%3D1%3BstatusCodes%3D31094501%2C31094502%2C31094503%3BprogramCode%3DH2020%3BprogramDivisionCode%3Dnull%3BfocusAreaCode%3Dnull%3BcrossCuttingPriorityCode%3Dnull%3BcallCode%3DDefault%3BsortQuery%3DsubmissionStatus%3BorderBy%3Dasc%3BonlyTenders%3Dfalse%3BtopicListKey%3DtopicSearchTablePageState) | [**Building and renovating in an energy and resource**](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/bbi-2020-so2-r1%3BfreeTextSearchKeyword%3DBBI%3BtypeCodes%3D0%2C1%3BstatusCodes%3D31094501%2C31094502%3BprogramCode%3Dnull%3BprogramDivisionCode%3Dnull%3BfocusAreaCode%3Dnull%3BcrossCuttingPriorityCode%3Dnull%3BcallCode%3DDefault%3BsortQuery%3DopeningDate%3BorderBy%3Dasc%3BonlyTenders%3Dfalse%3BtopicListKey%3DtopicSearchTablePageState)[**efficient way**](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/bbi-2020-so2-r1%3BfreeTextSearchKeyword%3DBBI%3BtypeCodes%3D0%2C1%3BstatusCodes%3D31094501%2C31094502%3BprogramCode%3Dnull%3BprogramDivisionCode%3Dnull%3BfocusAreaCode%3Dnull%3BcrossCuttingPriorityCode%3Dnull%3BcallCode%3DDefault%3BsortQuery%3DopeningDate%3BorderBy%3Dasc%3BonlyTenders%3Dfalse%3BtopicListKey%3DtopicSearchTablePageState) | 60 | 10-20 | IA |
| **Contact** | Deliver at least one residential and one non-residential large-scale, real-life demonstrations of promising technology, process and social innovations:   1. Test innovations across the whole value chain, from planning and design, through manufacturing and construction to end use; 2. Including all relevant players: governance and financing institutions, planners, owners, architects, engineers, contractors, facility managers, tenants, etc; 3. Adapt this value chain to new operation patterns - new business models, services, usages, behavior; 4. Validate the market and consumer uptake in the form of real life “living-labs”; 5. Demonstrate, evaluate and ultimately replicate in different environment and market conditions, considering social, business and policy drivers; 6. Validate the innovations for different building types - residential (e.g. social housing) and non- residential (e.g. hospitals, schools, public buildings) in various climatic zones; 7. Bring the core technology from TRL 5-6 up to TRL 7-8 at the end of the project. | | | |
| **Rachel Loutaty**  [rachel.l@iserd.org.il](mailto:rachel.l@iserd.org.il)  03-5118152 |
| **Area 5: Sustainable and smart mobility** | | | | |
| CODE | TOPIC | **Budget in M€** | | **Type of Action** |
| **Total** | **project** |
| [LC-GD-5-1-2020](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gd-5-1-2020%3BfreeTextSearchKeyword%3DLC-GD-5-1-2020%3BtypeCodes%3D1%3BstatusCodes%3D31094501%2C31094502%2C31094503%3BprogramCode%3DH2020%3BprogramDivisionCode%3Dnull%3BfocusAreaCode%3Dnull%3BcrossCuttingPriorityCode%3Dnull%3BcallCode%3DDefault%3BsortQuery%3DsubmissionStatus%3BorderBy%3Dasc%3BonlyTenders%3Dfalse%3BtopicListKey%3DtopicSearchTablePageState) | **Green airports and ports as multimodal hubs for sustainable and smart mobility** | 100 | 15-25 | IA |
| **Contact** | **Address the following activities under one of two areas - A) Green Airports OR B) Green** | | | |
|  |
|  | **Ports:** | | | |
|  | * Foster innovative overall energy systems integration; | | | |
| **Rachel Loutaty** | * Demonstrate effective integration of transport modes within and around the airport/port; * Foster wider use of green hydrogen, electrification and sustainable alternative fuels; | | | |
|  | * Assess improvement in energy consumption, greenhouse gas emissions and air quality. | | | |
| [rachel.l@iserd.org.il](mailto:rachel.l@iserd.org.il) |  | | | |
| 03-5118152 | Consortia structure and budget: | | | |
|  | * Led by One “Lighthouse” airport/port, demonstrating novel concepts and solutions; | | | |
|  | * Include Three “Fellow” airports/ports helping to define and incorporate solutions, and committed | | | |

to implementing the best practices identified, and results produced by the project;

* Include academic and other partners (e.g. rail, road);
* For Green Ports - include at least one inland port;
* A maximum of 20% of the requested grant should be allocated to the Fellow airports or ports.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Area 8: Zero-pollution, toxic free environment** | | | | |
| **CODE** | **TOPIC** | **Budget in M€** | | **Type of Action** |
| **Total** | **Project** |
| [LC-GD-8-1-2020](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gd-8-1-2020%3BfreeTextSearchKeyword%3DLC-GD-8-1-2020%3BtypeCodes%3D1%3BstatusCodes%3D31094501%2C31094502%2C31094503%3BprogramCode%3DH2020%3BprogramDivisionCode%3Dnull%3BfocusAreaCode%3Dnull%3BcrossCuttingPriorityCode%3Dnull%3BcallCode%3DDefault%3BsortQuery%3DsubmissionStatus%3BorderBy%3Dasc%3BonlyTenders%3Dfalse%3BtopicListKey%3DtopicSearchTablePageState) | **Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals** | 40 | 8-12 | RIA |
| **Contact** | Demonstrate innovative solutions to protect health, environment & natural resources. Address one or more of the following:   1. Research and develop (bio)remediation technologies of contaminated soil and water; 2. Develop cost-effective high-resolution methods to measure PMB in different media; 3. Environmental and human (bio)monitoring of persistent and mobile chemicals; 4. Gather toxicity & toxico-kinetic info, in-vitro|silico, on risks to human & ecosystems; 5. Develop & improve models to predict and assess long-term trends and risks; 6. Develop best practices for the management of waste containing PMC; 7. Detect & identify specific pollution problems (using Copernicus data & service). 8. This topic includes space remote sensing applications. | | | |
| **Nir Shaked**  [Nir.s@iserd.org.il](mailto:Nir.s@iserd.org.il)  03-7157916 |
| CODE | TOPIC | **Budget in M€** | | **Type of Action** |
| **Total** | **Project** |
| [LC-GD-8-2-2020](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gd-8-2-2020%3BfreeTextSearchKeyword%3DLC-GD-8-2-2020%3BtypeCodes%3D1%3BstatusCodes%3D31094501%2C31094502%2C31094503%3BprogramCode%3DH2020%3BprogramDivisionCode%3Dnull%3BfocusAreaCode%3Dnull%3BcrossCuttingPriorityCode%3Dnull%3BcallCode%3DDefault%3BsortQuery%3DsubmissionStatus%3BorderBy%3Dasc%3BonlyTenders%3Dfalse%3BtopicListKey%3DtopicSearchTablePageState) | **Fostering regulatory science to address combined exposures to industrial chemicals and pharmaceuticals: from science to evidence-based policies** | 20 | 4-6 | RIA |
| **Contact** | Innovative systemic solutions that can be scaled up, such as:   1. Providing policy-makers & risk assessors with validated, practical methods & tools; 2. Improve the scientific knowledge base; 3. Study the effectiveness and efficiency of different policy approaches. | | | |
| **Nir Shaked**  [Nir.s@iserd.org.il](mailto:Nir.s@iserd.org.il)  03-7157916 |