

**Project Information**

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| Project Name | LIFE LOOP – Energy Communities – Local Ownership of Power |
| Grant Agreement | 101077085 |
| Project Duration | 2022-2025 |
| Project Coordinator | Energy Cities |
| Working Package  Deliverable  Responsible Partner | WP5  D5.2 Set of Templates  Electra Energy Cooperative |

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A picture containing background pattern

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**Business Model Canvas – Community Energy Demand-Response Scheme**

**Template**

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|  |  | | *Designed for:* | | | | *Business model* | | | *Date:* | | *Version:* |
| **Business Model Canvas** | | | **Energy Communities** | |  | | **Community energy**  **demand-response** | |  |  |  |  |
|  |  | |  | | | |  | | |  | | |
| **Key Partners** | **Key Activities** | | | **Value Propositions** | | **Member Relationships** | | | | **Member Segments** | | |
| -DSOs, TSOs, energy suppliers, DR aggregators  -Regulatory authorities and Ministries  -Technology providers (smart meters, energy management systems, platforms)  -Renewable energy providers  -Community organizations and stakeholders  -Universities and research institutions  -Research institutions and universities  -Financial institutions (for funding and incentives) | -Developing and maintaining demand-response infrastructure  -Educating and engaging community members  -Monitoring and analysing energy consumption data  -Implementing and managing demand-response events  -Collaborating with utilities and regulators  -Providing incentives and rewards to participants  -Continuous improvement and innovation in demand-response strategies  -Taking care of issues related to GDRP and data protection | | | -Cost savings for community members through reduced electricity bills  -Enhanced grid reliability and reduced risk of blackouts  -Increased use of renewable energy sources  -Environmental benefits through reduced carbon emissions  -Empowerment of community members to actively manage their energy use  -Financial incentives and rewards for participation in demand-response events  -Enhanced community resilience and energy security | | | -Clear business models and relationships between the energy community and other actors (i.e. DR aggregators, energy suppliers)  -Transparent and regular communication with community members  -Educational workshops and training sessions  -Feedback mechanisms to ensure continuous improvement  -Community meetings and consultations  -Customer support for technical and program-related queries  -Building trust through reliability and transparency | | | -Residential households within the energy community  -Local businesses and commercial entities  -Public institutions (schools, municipal buildings)  -Environmentally-conscious individuals and families  -Low-income households seeking energy savings | | |
| **Κey Resources** | | | **Channels** | | | **Environmental and social benefits** | | |
| -Smart grid and metering infrastructure  -Advanced energy management systems  -Financial capital (for incentives, rewards, and infrastructure)  -Technical expertise in energy management and demand-response  -Strong community network and support  -Regulatory compliance and support | | | -Online platforms and mobile applications  -Social media and community newsletters  -Direct communication (emails, phone calls)  -Workshops and training sessions  -Collaboration with local utility companies | | | -CO2 emissions reduction  -Social impacts | | |
| **Cost Structure**  -Installation and maintenance of smart meters and energy management systems  -Operational costs for monitoring and managing demand-response events  -Marketing and community engagement expenses  -Incentives and rewards for participants  -Administrative and regulatory compliance costs  -Costs for training and education programs | | **Revenue Streams**  -Payments from energy providers, DSOs, TSOs, DR aggregators and other actors for demand-response participation  -Government grants and subsidies for energy efficiency programs  -Membership fees or contributions from community members  -Savings from reduced energy consumption and peak demand charges  -Potential revenue from selling aggregated demand-response capacity to the grid  -Consultancy fees for advising other communities on demand-response implementation | | | | | | **Risks, Challenges and Barriers**  -Unfavourable regulations  -Unfavourable business models  -Lack of grid smart meters and network digitalisations  -Lack of organized flexibility markets or unfavourable conditions (i.e. high capacity threshold for participating in the markets)  -Luck of funds/capital/financing resources  -Dysfunctional governance model / Inefficient internal relationships  - Dysfunctional collaboration with other market actors (mainly energy providers and DR aggregators) | | | | |
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