



Prosumers for the Energy Union: mainstreaming active participation of citizens in the energy transition

Data Management Plan (Final version)

(Deliverable N°1.5)

Horizon 2020 (H2020-LCE-2017)

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Summary of PROSEU

PROSEU aims to enable the mainstreaming of the renewable energy Prosumer phenomenon into the European Energy Union. Prosumers are active energy users who both consume and produce energy from renewable sources (RES). The growth of RES Prosumerism all over Europe challenges current energy market structures and institutions. PROSEU's research focuses on collectives of RES Prosumers and will investigate new business models, market regulations, infrastructural integration, technology scenarios and energy policies across Europe. The team will work together with RES Prosumer Initiatives (Living Labs), policymakers and other stakeholders from nine countries, following a quasi-experimental approach to learn how RES Prosumer communities, start-ups and businesses are dealing with their own challenges, and to determine what incentive structures will enable the mainstreaming of RES Prosumerism, while safeguarding citizen participation, inclusiveness and transparency. Moving beyond a case by case and fragmented body of research on RE Prosumers, PROSEU will build an integrated knowledge framework for a socio-political, socioeconomic, business and financial, technological, socio-technical and socio-cultural understanding of RES Prosumerism and coalesce in a comprehensive identification and assessment of incentive structures to enable the process of mainstreaming RES Prosumers in the context of the energy transition.

Summary of PROSEU's Objectives

Eight key objectives at the foundation of the project's vision and work plan:

- **Objective 1:** Document and analyse the current state of the art with respect to (150-200) RES Prosumer initiatives in Europe.
- **Objective 2:** Identify and analyse the regulatory frameworks and policy instruments relevant for RES Prosumer initiatives in nine participating Member States.
- **Objective 3:** Identify innovative financing schemes throughout the nine participating Member States and the barriers and opportunities for RES Prosumer business models.
- **Objective 4:** Develop scenarios for 2030 and 2050 based on in-depth analysis of technological solutions for RES Prosumers under different geographical, climatic and socio-political conditions.
- **Objective 5:** Discuss the research findings with 30 relevant stakeholders in a Participatory Integrated Assessment and produce a roadmap (until 2030 and 2050) for mainstreaming RES Prosumerism.
- **Objective 6:** Synthesise the lessons learned through experimentation and co-learning within and across Living Labs.
- **Objective 7:** Develop new methodological tools and draw lessons on how the PROSEU methodology, aimed at co-creation and learning, can itself serve as an experiment with institutional innovation.
- **Objective 8:** Create a RES Prosumer Community of Interest.

PROSEU Consortium Partners

| Logo | Organisation | Type | Country |
|---|--------------|------------------------------------|-----------------|
|  | FCIENCIAS.ID | Private non-profit association | Portugal |
|  | U.PORTO | University | Portugal |
|  | ICLEI EURO | Small and medium-sized enterprise | Germany |
|  | ClientEarth | Non-governmental organisation | United Kingdom |
|  | UNIVLEEDS | University | United Kingdom |
|  | DRIFT | University | the Netherlands |
|  | UNIZAG FSB | University | Croatia |
|  | LEUPHANA | University | Germany |
|  | ECO-UNION | Non-governmental organisation | Spain |
|  | IÖW | Private non-profit limited company | Germany |
|  | CE Delft | Small and medium-sized enterprise | the Netherlands |

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Executive summary

This document corresponds to the final version of the PROSEU Data Management Plan (DMP).

The PROSEU project participates in the Open Research Data (ORD) Pilot, launched by the European Commission (EC), which aims at promoting free access, reuse, repurpose, and redistribution of data generated by Horizon 2020 projects. Therefore, the purpose of the PROSEU DMP is to provide a description of the main elements of the data management policy that have been used by the Consortium with regard to the research data generated and collected during the project (excluding dissemination materials). Specifically, it includes detailed information on:

- The main research data that the project have collected and generated;
- How data have been processed, organised, made accessible for verification and reuse;
- How data have been curated and preserved during and after the end of the project according to the corresponding ethical requirements (detailed on D9.1 and D9.2).

To ensure that all research data produced have been managed and shared properly, according to ethical and technical standards, and to facilitate their reuse by others in an effective, efficient and transparent way, PROSEU team members have adopted a series of criteria to follow the FAIR data principles. Overall, all research data that are final versions have been shared using licences that permit the widest reuse possible (i.e. Creative Commons licences). Exceptions are those datasets containing personal data, not-final versions of working documents, datasets in which PROSEU members are not primary authors, or when a contractual obligation exists between two parts. These documents remain closed and will not be openly distributed, nor shared with third parties.

Since the DMP is a *living document*, this last version includes the description of all PROSEU research data generated from March 2018 to February 2021 (entire project period). According to the Grant Agreement, the DMP has been periodically updated in M6 (D1.2) and M16 (D1.3) to provide an up-to-date description of the datasets generated throughout the project.

This document details the Consortium's commitment towards Open Data and Open Access initiatives to contribute to Open Science principles, and is structured as follows: Section 1 describes the features of the research data generated and/or collected by the project members. Section 2 is dedicated to the principles of FAIR data, that is, how data aims to be to findable, accessible, interoperable, and reused. Section 3 details the costs and responsibilities associated with making data FAIR. Next, section 4 addresses data security issues. Section 5 describes the ethical and legal aspects involving the research data collected. Finally, the appendices include the description and characteristics of the main datasets that have been generated by the project members and how they have been made publicly available through an open repository (Zenodo).

1. Introduction

The PROSEU project participates in the *Open Research Data (ORD) Pilot*, which aims to make the research data generated by Horizon 2020 projects findable and accessible for others, in order to maximise their reuse with as few restrictions as possible, while protecting personal and sensitive data, as well as intellectual property rights (following the premise “*as open as possible, as closed as necessary*”). Our ambition and responsibility as researchers is to ensure that all research data produced is managed and shared properly, according to ethical and technical standards, and to facilitate their reuse by others in an effective, efficient and transparent way, following open science practices. In this way, by opening up the research data, new knowledge may be easily discovered and scrutinised by a largest community of researchers and stakeholders, such as policy-makers or non-governmental organisations, among other societal actors.

Therefore, the objective of the PROSEU Data Management Plan (DMP) is to provide detailed information concerning the datasets that have been generated during the project, and how these research data have been shared, archived and preserved during the lifespan of the project and its conclusion. Specifically, PROSEU has collected data through several procedures, based on transdisciplinary and interdisciplinary research methods and approaches, such as: literature review, self-administered questionnaire (web-based); semi-structured interviews; focus groups; living labs; or quantitative modelling and scenario analysis, in nine EU countries (Belgium, Croatia, France, Germany, Italy, Portugal, Spain, the Netherlands, and the United Kingdom). Since projects’ impact are dependent on an easy discovery, access and reusability of data, PROSEU research data have been (and will be) available during and after the end of the project. Thus, the PROSEU DMP describes which data can be shared, including access procedures, storage and long-time preservation. Where exceptions are necessary due to data protection issues and participants’ confidentiality (i.e. if data cannot be anonymized), the DMP clearly states which data are not openly shared. In this regard, ethical-related aspects of data protection and research procedures have already been considered in this DMP and are described in more detailed in the PROSEU Ethics Requirements documents (i.e. Deliverables 9.1 and 9.2).

This document details the research datasets that PROSEU Consortium members have generated from the beginning of the project (March 2018) until its end (February 2021). In line with the Grant Agreement, the DMP have been periodically updated. The PROSEU DMP excludes dissemination materials, such as infographics, videos, or webinars, which are openly distributed through the PROSEU project website. This document follows the guidelines on FAIR Data Management for Horizon 2020 projects and is organised in six sections that cover the description of the data (Section 1), the FAIR principles for opening research data (Section 2), resources needed for making data FAIR (Section 3), data security (Section 4), and ethical aspects (Section 5). A detailed description and characteristics of all datasets covered by this DMP can be found as an appendix to this report.

2. Data summary

The results obtained within the PROSEU project rely on efficient data collection from several sources, mainly primary and secondary, which allow us to determine what incentive structures may enable the mainstreaming of RES *prosumerism* and, in so doing, safeguarding citizen participation, inclusiveness and transparency in the Energy Union. *Collective RES Prosumer Initiatives* and other relevant stakeholders involved in *RES prosumerism* (such as business model experts; FinTech companies; local, national and EU regulators and policy-makers; technology experts, etc.) have been requested to provide information about the economic, financial, legal, technological and cultural factors that drive or hinder the development and consolidation of *RES prosumerism* in Europe. Specifically, factors that facilitate or impede collective energy-responsible behaviour and choices, including data on how prosumer initiatives deal with issues of participation, inclusiveness, gender, and transparency.

Specifically, PROSEU researchers collect and/or generate both quantitative and qualitative data that have been used to:

- (1) develop a typology of prosumer experiences in Europe that will provide a framework for a meaningful comparison of RES prosumer drivers, barriers, challenges, opportunities and incentive structures across Europe (WP2);
- (2) produce a document with concrete policy options for regulatory frameworks that will be directed towards policy makers at EU, national, regional and local levels, as well as a policy brief on the models of participatory governance to inform the development and revision of Member States' National Energy and Climate Plans (WP3);
- (3) illustrate the business model archetypes and innovation potential for European prosumers, and to produce a detailed policy brief on the changes needed to energy market regulations and policy to allow new business models for the Energy Union (WP4);
- (4) create EU, national and local technology scenarios to assess the impact of prosumers, as well as the potential drivers and barriers in various political and economic frameworks and climate conditions (WP5);
- (5) provide an overview of current financial and non-financial (dis)incentive structures for prosumerism in Europe (WP6).

To accomplish this, the PROSEU team members have collected data via interviews with experts and focus groups (WP3 and WP4); technological databases (WP5); workshops (WP6); and, finally, through direct input from RES Prosumer collectives and other stakeholders (in the form of interviews or workshops, depending on the interventions conducted in the multiple Living Labs that have taken place across Europe), but also drawing on previous research from other WPs (WP7). The research data generated have allowed us to gain a deeper understanding of the sociotechnical dimensions of *RES prosumerism*, and concretely:

- To map and characterise RES prosumer initiatives in Europe, and to develop a typology that accounts for their full diversity, achievements and ambitions including sociocultural and socio-economic factors (Objective 1);

- To examine the current regulatory frameworks and policy instruments relevant for RES prosumer initiatives across the EU to produce updated Member State factsheets and policy briefs on challenges, opportunities, incentives of regulations and policies for prosumers in nine EU member states (Objective 2);
- To identify innovative business and financial models for RE prosumers (Objective 3);
- To develop local, national and EU technology scenarios for 2030 and 2050, and technology recommendations for RES prosumers under different geographical, climatic, and socio-political conditions (Objective 4);
- To propose a set of incentive structures and a roadmap for the mainstreaming of prosumers in the Energy Union (Objective 5);
- To develop new methodological tools (based on the co-creation and co-learning methods used in the living labs) to facilitate the mainstreaming of *prosumerism* (Objectives 6 and 7);
- To create a Prosumers Community of Interest by bringing together relevant stakeholders (Objective 8).

Table 1 and table 2 (Appendix A and Appendix B) provide the description of all the datasets that PROSEU partners have collected/generated throughout the project, which are directly linked with the above PROSEU's objectives.

PROSEU Consortium members expect that the research data and outcomes generated through the project (e.g. deliverables, policy briefs, guidelines, etc.) will be useful for other researchers from different fields, not only in the social sciences and humanities but also in the STEM sciences (science, technology, engineering and mathematics), as well as for current and future RES prosumer initiatives and their potential allies, such as the alternative finance sector, utility and grid operators, and representatives from governments at the local, regional, national and EU level. Thus, to facilitate the widespread reuse of the research data and, in this manner, enable the reproducibility of results, PROSEU datasets have used widely accepted formats and standards. These datasets are provided in text (plain text and/or comma delimited) and/or in numeric formats. PROSEU has used the most common file extensions to save the data (such as .pdf, .docx, or .csv), and has followed standard file-naming conventions and keywords. The data is made available on the online repository ZENODO, a free of charge repository developed by CERN within the EU project OpenAIRE to support Open Data management for EC funded multi-disciplinary research, and shared under the Creative Commons (CC) Attribution (BY) version 4.0 (CC BY 4.0) licence. All of the above, aim to follow the FAIR principles for research data established by the EC, i.e. data should be Findable, Accessible, Interoperable and Reusable (FAIR).

Since the PROSEU DMP was fully established (Month 6, D1.2), each partner has been responsible for following the ethical and technical requirements described in this DMP to keep research data within the FAIR principles. Additionally, the PROSEU project's coordinator has been responsible for data management decisions, for instance, resolving what data have been (and will be) kept, for how long, and how and where data will be shared and preserved.

3. FAIR Data

The PROSEU project, as participant in the ORD pilot, has followed the FAIR principles for research data, i.e. data should be **Findable, Accessible, Interoperable and Reusable (FAIR)**. To do so, PROSEU Consortium members have agreed on establishing a series of criteria to make data findable by other users (e.g. using metadata standards, adding keywords, and DOIs, etc.); to address which data may be accessible via open repository or should remain confidential according to ethical requirements; to foster the interoperability of the data by allowing data exchange and reuse (e.g. using standards, or open source); and, to establish the licences of the data generated to permit the widest reuse possible.

3.1 Making data findable, including provisions for metadata

Improving the ability of other researchers, policy makers, and stakeholders to find and reuse the PROSEU research data is vital to increase the impact of the project. To do so, metadata have accompanied the datasets that have been made available in public repositories in order to improve their discoverability and increase their usability. Thus, PROSEU has followed the metadata standards provided by the Data Documentation Initiative (DDI), in particular the DDI Codebook v. 2.5, which is a widely used international standard for describing data from the social, behaviour, and economic sciences (DDI Alliance, 2014). The use of these standards is recommended to make different data sources comparable and interoperable, and to increase data sharing and reuse (OpenAIRE2020, 2017). In particular, PROSEU's metadata have provided a full description of each dataset, including, at least, the following information: dataset reference (file name), a description of the content, authors (i.e. PROSEU partner/s that collected/processed the data), file version number, publication date, Digital Object Identifier (DOI), licence information, and any technical specification that is needed to visualise or access the data. Table 3 (Appendix C) shows an example of the metadata associated with a specific dataset available in public repositories. Furthermore, all PROSEU documents have incorporated basic information and visual elements associated with the project, such as the PROSEU logo, the EU logo, or the GA number, among others, to make them identifiable.

PROSEU uses unique Digital Object Identifiers (DOI) for all files uploaded to public repositories. DOIs to these files can be cited in any published article that uses PROSEU research data to facilitate their discoverability and reuse.

Additionally, file-naming conventions have been adopted to organise and make the project's research data easy to identify and use by the Consortium partners and by others. Consequently, PROSEU's file names reflect the contents of the file and include enough information to uniquely identify the data file. According to extended practices to standardise file names, PROSEU complies with the following general specifications for file naming:

- File names should be short but descriptive (<40 characters);
- Use alphanumeric and avoid special characters, such as `"/\ : * < > [] $ & ~ ! # ? { } ' ^ %`
- Use underscores `_` instead of periods or spaces;
- Standardise dates (according to ISO standards: YYYYMMDD);

- Use leading zeros for sequential numbering, e.g. v01

Moreover, PROSEU file names contain the following information:

- Project acronym (i.e. PROSEU) – compulsory for deliverables and data openly shared;
- Document name (e.g. Data Management Plan) – compulsory for all documents;
- Researcher/Authors initials – compulsory only for internal documents;
- Acronym institution leading the research – recommended for open data;
- Year of study (e.g. 2018) – when necessary;
- File version (e.g. v01) – compulsory for internal documents;
- File type/extension (e.g. odt) - compulsory for all documents.

Examples:

- For EC deliverables and dissemination materials: PROSEU_DataManagementPlan.odt;
- For public research data: PROSEU_DataManagementPlan_FCID_v01.odt;
- For internal/working documents: 20180518_DataManagementPlan_EM_v01.odt.

Finally, to optimise possibilities for discoverability and reuse of PROSEU research data, all datasets and files stored and openly shared on repositories such as ZENODO include keywords to describe the content of each file. Some keywords used are shown in Table 4 (Appendix D).

3.2 Making data openly accessible

In the context of the EC's ORD Pilot, the research outcomes (i.e. journal articles, policy briefs, reports, etc.) are published by default in Open Access. Furthermore, public research data generated have been made openly accessible via the **online repository ZENODO**, as soon as the research has been published. PROSEU has been storing research data (e.g. databases, working documents, reports, research articles, etc.) in ZENODO from the beginning of the project and it will continue until its end. ZENODO is a free of charge repository developed by CERN within the EU OpenAIRE project to support Open Data management for EC funded multi-disciplinary research. Data contained in ZENODO is stored in the CERN Data Centres, primarily in Geneva, but with multiple replicas in a distributed file system ("About ZENODO", n.d.). Since identification is not needed to download open materials on this repository, the identity of people (other researchers or stakeholders) accessing the data through ZENODO cannot be ascertained. However, ZENODO allows control of the access right of the data uploaded (i.e. open, closed, restricted or embargoed information); allows the upload of different types of data (i.e. publication, image, dataset, presentation, software, poster, or videos, among others); and allows adding specific keywords to facilitate the access to information.

The currently available documents (by May 2020) are detailed in Table 5 (Appendix E). The links to those documents are the following:

- **PROSEU survey questionnaire. New energy for Europe: Renewable Energy Prosumers Initiatives (WP2):** <https://zenodo.org/record/3238181> (Self-administered online questionnaire);
- **Country factsheets (WP2):** <https://zenodo.org/record/3247376> (ZIP file, 9 country fact sheets)
- **PROSEU Collective Renewable Energy Prosumers Database (Template) (WP2):** <https://zenodo.org/record/3598676> (Dataset template)
- **PROSEU Collective Renewable Energy Prosumers Stakeholders Database (Template) (WP2):** <https://zenodo.org/record/3598678> (Dataset template)
- **Review and characterisation of collective renewable energy prosumer initiatives (WP2):** <https://zenodo.org/record/3560961> (Report; Deliverable 2.1)
- **A multi-dimensional typology of collective RES prosumers across Europe (WP2):** <https://zenodo.org/record/3584711> (Report; Deliverable 2.2)
- **National Energy and Climate Plans – Preliminary analysis on Prosumerism for 9 EU Member States (WP3):** <https://zenodo.org/record/2650933> (Dataset, policy analysis)
- **Assessment of existing EU-wide and Member State-specific regulatory and policy frameworks of RES Prosumers (WP3):** <https://zenodo.org/record/2607940> (Report; Deliverable 3.1)
- **Policy Brief: Strategies for Policy Coherence and Sustainability. Part 1: Relevance of EU policies and frameworks for prosumers (WP3):** <https://zenodo.org/record/3584774> (Report; Deliverable 3.2 – part 1)
- **Policy Brief: Strategies for Policy Coherence and Sustainability Part 2: Sustainability guidance for prosumers and policymakers (WP3):** <https://zenodo.org/record/3584810> (Report; Deliverable 3.2 – part 2)
- **Principles for Prosumer Policy Options. Recommendations to strengthen prosumers and energy communities in NECPs and other EU, national and local policies (WP3):** <https://zenodo.org/record/3584746> (Report; Deliverable 3.3)
- **Participatory governance for the roll-out of the Energy Union (WP3):** <https://zenodo.org/record/3798728> (Report; Deliverable 3.4)
- **Business models for prosumers in Europe (WP4):** <https://zenodo.org/record/3598667> (Report; Deliverable 4.1)
- **Policies for prosumer business models in the EU (WP4):** <https://zenodo.org/record/3798924> (Report; Deliverable 4.2)
- **Prosumers in the post subsidy era: an exploration of new prosumer business models in the UK (WP4):** <https://zenodo.org/record/3520848> (Research article)

- **Prosumer technology database (WP5):** <https://zenodo.org/record/2611147> (Database, Deliverable 5.1)
- **Report on local, national and EU scenarios (WP5):** <https://zenodo.org/record/3726912> (Report; Deliverable 5.2)
- **Economical, environmental and exergetic multi-objective optimization of district heating systems on hourly level for a whole year (WP5):** <https://zenodo.org/record/3520860> (Research article)
- **Synthesis of incentive structures: input for Participatory Integrated Assessment (WP6):** <https://zenodo.org/record/3676026> (Report; Deliverable 6.1)
- **RES Living Labs Operational Plan (WP7):** <https://zenodo.org/record/3236049> (Working document; management of Living Labs)
- **Co-creating models for Prosumerism in Portugal: Our experience working with Living Labs: (WP7):** <https://zenodo.org/record/3236219> (Conference contribution; abstract)
- **Renewable Energy Prosumers in Mediterranean Viticulture Social-Ecological Systems (WP7):** <https://zenodo.org/record/3557374> (Research article)
- **Domestic energy service business models: Insights from the PROSEU project (WP7):** <https://zenodo.org/record/3826513> (Report; LL workshop)
- **Renewable energy in Bristol: Opportunities and challenges in the Post-Subsidy landscape – A kick-off meeting (WP7):** <https://zenodo.org/record/3826326> (Report; LL workshop)

There is not any highly specialised software tool needed to access the [PROSEU public research data shared on ZENODO](#). As described in Table 2 (Appendix B), most of the datasets produced within the project are available in **common text or numeric format files** (e.g. DOCX, XLSX, ODT, PDF, etc.). When possible, **open source code** and/or **open source software** (e.g. LibreOffice) have been used.

Although our ambition has been to widely distribute PROSEU research data as open as possible, **certain datasets cannot be shared or need to be shared under restrictions**. For instance, datasets containing personal data of participants (such as names or e-mail addresses, which cannot be anonymized), not-final versions of working documents, datasets in which PROSEU members are not primary authors, or when a contractual obligation exists between two parts, will remain stored in the project's servers and will not be openly distributed, nor shared with third parties. Table 6 (Appendix F) details the availability of the project's datasets stored in the open repository ZENODO.

3.3 Making data interoperable

Interoperability of the data (i.e. allowing data exchange and re-use of the research data between researchers, institutions, organisations or countries) has been facilitated by following **good practices and standards for research data**. This includes the tag of PROSEU files with appropriate metadata, based on the standards provided by the DDI Alliance for social sciences; using self-explaining file names, following international file naming conventions; the addition of keywords and DOIs; and the utilization of common file types and formats (e.g. PDF or CSV), as well as open source software (e.g. LibreOffice) whenever possible. Moreover, PROSEU have followed the DDI standards for controlled vocabularies for social science research (DDI Alliance, 2017), which described specific terms and rules for their use, in relation to, for instance, data source types, mode of collection, or general data formats, among others. The use of all of these standards facilitate the understanding, sharing, and reuse of our datasets.

3.4 Increase data reuse (through clarifying licences)

Research data generated by the project have been made publicly available for reuse according to the type of data and journal embargo policies. In most of the cases, data have been distributed as soon as research has been published. The reuse of PROSEU research data by third parties (i.e. other researchers, policy-makers, other societal actors) is expected during and after the project ends. Whenever possible, public research data have been shared under the licence **Creative Commons (CC) Attribution (BY) version 4.0 (CC BY 4.0)** in order to allow the widest reuse possible. Datasets containing personal data of participants (such as names or e-mail addresses, which cannot be anonymized), not-final versions of working documents, datasets in which PROSEU members are not primary authors, or when a contractual obligation exists between two parts, will remain stored in the project' servers. Datasets that will be kept private (e.g. because contain personal data) are detailed in Table 6 (Appendix F).

4. Allocation of resources

The **costs for making PROSEU research data FAIR** (i.e. findable, openly accessible, interoperable, and reusable) while securing any personal data collected, are detailed in Table 7 (Appendix G). These costs have been covered by the financial budget of the project, and include Open Access (OA) publications, ICT services such as secure servers and Internet domains, and the development of code for a self-administered questionnaire (web-based).

5. Data security

Data security is of major importance in the PROSEU project. Although PROSEU has not dealt with any sensitive data, personal data of participants have been collected and stored during the development of the project (e.g. name, profession, email), being destroyed after the completion of the research. The **protection of personal** data have been ensured through appropriate procedures for data collection, storage, protection, and destruction, according to the current EU

data protection regulations for data protection and ethical principles. This means written material is stored in secured locations (institutional servers and hard drives), and personal data have been anonymized (coded) in order to make it impossible to identify individuals. Only the person in charge of the study had access to the list with names and codes to allow participants to withdraw the data at any point in time during the study. Moreover, personal background-related data have been stored separately from research relevant data.

Concerning **long-term conservation and secure storage of public research data** and dissemination materials (e.g. journal articles, reports, policy briefs, etc.), these have been ensured using the open repository ZENODO, which is expected to retain items for the lifetime of the repository. On the other hand, restricted research data (e.g. interview recordings, notes from focus groups and workshops, responses from the self-administered questionnaire, etc.) are stored in institutional servers (located in Germany), and retained for a period of 3 years after the project ends. To access these data, PROSEU project has created a project management platform that facilitates the efficient management of the project's files and datasets. The PROSEU platform is only accessible to the Consortium partners, which use an individual username and password to access the system. Thus, no external access to restricted documents is possible. Through the establishment of users' roles for each member, the project coordinator set up the level of permission to create, modify or delete the information stored on the system. Therefore, only specific members have right to delete information contained in the system. Finally, data recovery has been secured through periodical back-ups of PROSEU research data, which have been done in external hard-drives that will be kept secure by the corresponding WP and/or task leader/s.

6. Ethical aspects

The ethical and data protection frameworks that guide the project's research practices are in line with the EU key ethical principles and research codes of conduct, as well as the current regulations on Data Protection (General Regulation on Data Protection from 25 May 2018, and the EU Directive 2016/679). Thus, ethical principles and research codes of conduct concerning privacy and personal data protection have been addressed.

Concretely, all participants were given an **Informed Consent Form** to be signed, upon voluntary agreement, prior to participating in any project activities. This form contained, among other information, instructions about how they can ask for their data to be destroyed and/or removed from the project. Each Consortium Partner conducting activities that include interaction with research participants/stakeholders was responsible for securing the signed Informed Consent Form and storing it in a secure location for possible future verification and use. Additionally, participants received a **Participant Information Sheet**, which included detailed information about how the data and results gathered/generated during the project were expected to be used. Moreover, a description of the procedures adopted to guarantee participant's privacy was described. Participants were competent to understand the information given (translated in the languages of every participant country) and fully aware of the implications of their consent. All participants were told that they could withdraw from taking part in PROSEU at any time and ask for their data to be destroyed and/or removed. Participants were also reassured that any personal data will remain confidential, will be stored in institutional servers, and will not be

shared with third parties, nor transferred between countries, in agreement with the General Regulation on Data Protection from 25 May 2018, and the EU Directive 2016/679. After the completion of the research all personal data will be destroyed.

A detailed description of the ethical and data protection procedures can be found in the PROSEU Deliverable 9.1 and Deliverable 9.2 (namely, Ethics Requirements 1 and 2).

7. Other issues

The application of other national, institutional, departmental, or group procedures on data management, data sharing and/or data security are not expected at this stage.

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Appendices

Appendix A: Table N°1. Description of PROSEU datasets: type of data, origin, objectives, WP leader, and related WP.

| Reference | Type of data | Origin of the data (method of collection) | Objective and WP | Partners involved | Related WP |
|--|------------------------------|--|------------------|----------------------------|-------------------------------------|
| PROSEU_PT-Factsheet-Prosumption | Qualitative/ Quantitative | Review of relevant scientific and secondary literature, including statistics; Desktop research | O1 (WP2) | UPORTO/ FC.ID | WP3, WP4, WP5, WP6, WP7 |
| PROSEU_SP-Factsheet-Prosumption | Qualitative/ Quantitative | Review of relevant scientific and secondary literature, including statistics; Desktop research | O1 (WP2) | UPORTO/ FC.ID/ECO-UNION | WP3, WP4, WP5, WP6, WP7 |
| PROSEU_FR-Factsheet-Prosumption | Qualitative/ Quantitative | Review of relevant scientific and secondary literature, including statistics; Desktop research | O1 (WP2) | UPORTO/ ECO-UNION | WP3, WP4, WP5, WP6, WP7 |
| PROSEU_NL-Factsheet-Prosumption | Qualitative/ Quantitative | Review of relevant scientific and secondary literature, including statistics; Desktop research | O1 (WP2) | UPORTO/ DRIFT | WP3, WP4, WP5, WP6, WP7 |
| PROSEU_DE-Factsheet-Prosumption | Qualitative/ Quantitative | Review of relevant scientific and secondary literature, including statistics; Desktop research | O1 (WP2) | UPORTO/ LEUPHANA | WP3, WP4, WP5, WP6, WP7 |
| PROSEU_UK-Factsheet-Prosumption | Qualitative/ Quantitative | Review of scientific and secondary literature, including statistics; Desktop research | O1 (WP2) | UPORTO/ UNIVLEEDS | WP3, WP4, WP5, WP6, WP7 |

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|--|------------------------------|---|----------|-------------------|---|
| PROSEU_BE-Factsheet-Prosumption | Qualitative/ Quantitative | Review of relevant scientific and secondary literature, including statistics; Desktop research | O1 (WP2) | UPORTO/ ICLEI | WP3, WP4, WP5, WP6, WP7 |
| PROSEU_IT-Factsheet-Prosumption | Qualitative/ Quantitative | Review of relevant scientific and secondary literature, including statistics; Desktop research | O1 (WP2) | UPORTO/ ICLEI | WP3, WP4, WP5, WP6, WP7 |
| PROSEU_HR-Factsheet-Prosumption | Qualitative/ Quantitative | Review of relevant scientific and secondary literature, including statistics; Desktop research | O1 (WP2) | UPORTO/ UNIZAG | WP3, WP4, WP5, WP6, WP7 |
| PROSEU_EU-Factsheet-Prosumption | Qualitative/ Quantitative | Review of relevant scientific and secondary literature, including statistics; Desktop research by WP2 and project partners; Inputs from WP3, 4, 5 | O1 (WP2) | UPORTO | WP3, WP4, WP5, WP6, WP7 |
| 20180830_RES-Prosumers_Database_LK_v04 | Other | Desktop research by project partners in 9 countries; Confirmation research by WP2 team. Data contain organisation contacts and websites, besides summary information about each RES Prosumer initiative | O1 (WP2) | UPORTO/ ALL | WP3, WP4, WP5, WP6, WP7, WP8 |
| 20180830_RES-Stakeholders_Database_LK_v04 | Other | Desktop research by project partners in 9 countries; Confirmation | O1 (WP2) | UPORTO/ ALL | WP3, WP4, WP5, WP6, |

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|---|-------------|--|----------|---------------------|-------------------------|
| | | research by WP2 team. Data contain organisation contacts and websites, besides summary information about each RES stakeholder | | | WP7, WP8 |
| 201811XX_Conceptual Framework_LK_vXX | Qualitative | Review of relevant scientific literature; Review of EU funded energy projects; Development of a glossary of PROSEU concepts; Seminar with 4 PROSEU partners | O1 (WP2) | UPORTO | WP3, WP4, WP5, WP6, WP7 |
| 20180702_WP2_Survey_Questionnaire_LK_v9 | Qualitative | Collection of knowledge wish lists from PROSEU partners; Review of relevant scientific literature and secondary literature; Review of EU funded energy projects; Iterative development process with all partners; Inputs from advisory board members | O1 (WP2) | UPORTO/ DRIFT/FC.ID | WP3, WP4, WP5, WP6, WP7 |
| PROSEU_Prosumer_Survey_Questionnaire | Qualitative | Collection of knowledge wish lists from PROSEU partners; Review of relevant scientific literature and secondary literature; Review of EU funded energy projects; Iterative | O1 (WP2) | UPORTO | WP3, WP4, WP5, WP6, WP7 |

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| | | development process with all partners; Inputs from advisory board members; and from survey testing with 6 respondents | | | |
| 201811XX_WP2_Survey Results_LK_vXX | Qualitative/Quantitative | Raw results from surveying approx. 300 respondents in 9+ European countries. Data is qualitative as well as quantitative | O1 (WP2) | UPORTO/FC.ID | WP3, WP4, WP5, WP6, WP7 |
| 2019XXXX_Survey_Report_UPORTO_vXX | Qualitative/Quantitative | Summary of results from surveying approx. 300 respondents in 9+ European countries. Data is qualitative as well as quantitative | O1 (WP2) | UPORTO | WP3, WP4, WP5, WP6, WP7 |
| 201904XX_Baseline-review_Prosumption_Typologies_v01 | Qualitative | Review of relevant scientific and secondary literature | O1 (WP2) | DRIFT | WP6 (WP3, WP4, WP5) |
| 20181215_Policy_frameworks_v01 | Qualitative | Analysis of literature and websites on EU policy frameworks, input from focus group and expert interviews | O2 (WP3) | ClientEarth/ECO-UNION | WP4, WP5, WP6, WP7 |
| 20181215_Policy_guidelines_v01 | Qualitative | Analysis of literature and websites on EU policy frameworks, input from focus group and expert interviews | O2 (WP3) | ClientEarth/ECO-UNION | WP4, WP5, WP6, WP7 |
| 20190405_NECs_preliminary_chec | Qualitative | Preliminary analysis of | O2 (WP3) | ClientEarth/ECO-UNION | WP4, WP5, |

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|---|-------------|---|----------|-----------------------|--------------------|
| k_prosumerism_EU_countries_v01 | | literature and websites on EU policy frameworks | | | WP6, WP7 |
| 20190405_NECPs_v01 | Qualitative | Analysis of national NECPs published in the EC website | O2 (WP3) | ClientEarth/ECO-UNION | WP4, WP5, WP6, WP7 |
| 20190405_NECPs-EU-CleanEnergyPackage_V01 | Qualitative | Review of literature and studies related to NECPs, implementation of the EU Clean Energy Package and governance | O2 (WP3) | ClientEarth/ECO-UNION | WP4, WP5, WP6, WP7 |
| 2019_policy brief Participatory governance for the roll-out of the Energy Union | Qualitative | Desktop research, deliverables of other projects, interviews with other lawyers working within ClientEarth | O2 (WP3) | ClientEarth/ECO-UNION | WP4, WP5, WP6, WP7 |
| 2020_policy brief Guidance for national transposition of EU directives relating to renewable energy prosumers | Qualitative | Interviews, responses to a questionnaire, literature review, desktop research, deliverables of other projects. | O2 (WP3) | ClientEarth/ECO-UNION | WP4, WP5, WP6, WP7 |
| 2019XXXX_wp4workshops_v0X | Qualitative | 3-pager with summary of results of country workshops | O3 (WP4) | UNIVLEEDS | WP4 |
| 2019XXXX_wp4workshop_BE_v0X | Qualitative | Documentation of business model workshop in Belgium (location tbd) | O3 (WP4) | LEUPHANA | WP4 |
| 2019XXXX_wp4workshop_ES_v0X | Qualitative | Documentation of business model workshop in | O3 (WP4) | UNIVLEEDS | WP4 |

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|-----------------------------|------------------------------|--|----------|----------------------------|--------------------|
| | | Barcelona, Spain | | | |
| 2019XXXX_wp4workshop_NL_v0X | Qualitative | Documentation of business model workshop in Amsterdam, the Netherlands | O3 (WP4) | UNIVLEEDS | WP4 |
| 2019XXXX_wp4workshop_PT_v0X | Qualitative | Documentation of business model workshop in Lisbon, Portugal | O3 (WP4) | UNIVLEEDS | WP4 |
| 2019XXXX_wp4civs_FR_v0X | Qualitative | Interview transcripts for France | O3 (WP4) | UNIVLEEDS | WP4 |
| 2019XXXX_wp4civs_HR_v0X | Qualitative | Interview transcripts for Croatia | O3 (WP4) | UNIVLEEDS | WP4 |
| 2019XXXX_wp4civs_IT_v0X | Qualitative | Interview transcripts for Italy | O3 (WP4) | LEUPHANA | WP4 |
| 2019XXXX_wp4civs_UK_v0X | Qualitative | Interview transcripts UK | O3 (WP4) | UNIVLEEDS | WP4 |
| 2019XXXX_wp4civs_DE_v0X | Qualitative | Interview transcripts Germany | O3 (WP4) | LEUPHANA | WP4 |
| 2019XXX_wp4fin_v0X | Mixed | Set of case descriptions incl. Interviews for financing models | O3 (WP4) | LEUPHANA | WP4 |
| 2019XXXX_wp4civs_DE_v01 | Qualitative | Expert interview | O3 (WP4) | LEUPHANA | WP4 |
| 2019XXXX_wp4civs_FR_v01 | Qualitative | Expert interview | O3 (WP4) | LEUPHANA | WP4 |
| 2020XXX_wp4fincases_vXX | Qualitative | Desktop research | O3 (WP4) | LEUPHANA | WP4 |
| PROSEU_TechnologyDatabase | Qualitative/ Quantitative | Databases on energy technologies created within other EU and | O4 (WP5) | UNIZAG/ IÔW/CE Delft | WP4, WP6 WP7 |

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| | | national projects | | | |
| 2018XXXX_TechnologyData_UNIZAGFSB_IOW_CE_v01 | Qualitative/Quantitative | Literature data on potential prosumer technologies including descriptive and quantitative information | O4 (WP5) | UNIZAG/IÔW/CE Delft | WP4, WP6, WP7 |
| 2018XXXX_TechnologyCost_UNIZAGFSB_IOW_CE_v01 | Qualitative/Quantitative | Literature data on the current and future costs of potential prosumer technologies including descriptive and quantitative information | O4 (WP5) | UNIZAG/IÔW/CE Delft | WP4, WP6, WP7 |
| 2019XXXX_MeteorologicalData_UNIZAGFSB_IOW_CE_v02 | Quantitative | Meteorological data such as wind speed, solar insolation, rainfall and so on gathered from existing databases such as Meteonorm or EnergyPRO | O4 (WP5) | UNIZAG/IÔW/CE Delft | WP4, WP6, WP7 |
| 2019XXXX_EnergySupplyDemand_UNIZAGFSB_IOW_CE_v02 | Quantitative | Energy supply and demand data (electricity and heat) on an annual, hourly and sub hourly level | O4 (WP5) | UNIZAG/IÔW/CE Delft | WP4, WP6, WP7 |
| 2019XXXX_LocalScenarios_UNIZAGFSB_IOW_CE_vXX | Quantitative/Qualitative | Developed scenarios of prosumer integration into the energy system on the local level (households, neighbourhood, city) | O4 (WP5) | UNIZAG/IÔW/CE Delft | WP4, WP6, WP7 |
| 2019XXXX_Nation | Quantitative/ | Developed | O4 (WP5) | UNIZAG/ | WP4, |

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|--|--------------------------|--|-----------------|---------------------|-------------------------|
| alScenarios_UNIZAGFSB_IOW_CEB_vXX | Qualitative | scenarios of prosumer integration into the energy system on the national level | | IÔW/CE Delft | WP6, WP7 |
| 2019XXXX_EU-Scenarios_UNIZAGFSB_IOW_CE_vXX | Quantitative/Qualitative | Developed scenarios of prosumer integration into the energy system on the EU level | O4 (WP5) | UNIZAG/IÔW/CE Delft | WP4, WP6, WP7 |
| 2019XXXX_EU-FocusGroups_UIZAGFSB/IOW_CE_v01 | Quantitative/Qualitative | Participant observation, and working group notes | O4 (WP5) | UNIZAG/IÔW/CE Delft | WP4, WP6, WP7 |
| Technology recommendations_UNIZAGFSB/IOW/CE/ICLEI_v01 | Quantitative/Qualitative | Desktop research from the previously developed EU and local scenarios | O4 (WP5) | UNIZAG/IÔW/CE Delft | WP4, WP6, WP7 |
| 2020_technical_recommend_v01 | Qualitative | Focus group observations | O4 (WP5) | IÔW | WP5 |
| 2020XXXX_Technical_potential_prosumer_technologies_CE_Delft | Quantitative/Qualitative | Part on Country and EU level of deliverable 5.2 and the related model CEPROM | O4 (WP5) | CE Delft | WP5 |
| 2020XXXX_Workbook_results_Technical_potential_prosumer_technologies_D5.3 | Quantitative | Excel model CEPROM | O4 (WP5) | CE Delft | WP5 |
| 201810XX_Conceptualisation_Incentive-structures_XX_vXX | Qualitative | Review of scientific and secondary literature; possibly interviews with prosumption initiatives and stakeholders | O5 and O6 (WP6) | DRIFT | WP2, WP3, WP4, WP5, WP7 |
| 2020XXXX_PIA-workshops 1 and 2 | Qualitative | Participant observation, and working group | O5, O7 (WP6) | DRIFT | WP7 |

| | | notes | | | |
|---|--------------------------|--|-----------------|-----------------|-------------------------|
| 2020XXXX_PIA-workshops 3 and 4 | Qualitative | Participant observation, and working group notes | O5, O7 (WP6) | DRIFT/FC.ID | WP7 |
| 2020XXXX_artwork-backcasting-videos | Qualitative | Data (artwork) to support the production of 4 videos (3 short social media films, and 1 long film) | O5, O7 (WP6) | DRIFT/UNIVLEEDS | WP7, WP8 |
| PROSEU_LivingLabs_management-plan_methodological_guidelines | Qualitative | 15 in-depth interactive studies with Living Labs across Europe | O6 and O7 (WP7) | ICLEI | WP7 |
| 201812XX_selection-matrix_XX_vXX | Qualitative/Quantitative | 15 in-depth interactive studies with Living Labs across Europe | O6 and O7 (WP7) | ICLEI | WP7 |
| 201810XX_LL_Belgium1-Management-plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | ICLEI | WP3, WP4, WP5, WP6, WP7 |
| 201810XX_LL_Belgium2-Management-plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | ClientEarth | WP3, WP4, WP5, WP6, WP7 |
| 201810XX_LL_Croatia1-Management-plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | UNIZAG | WP3, WP4, WP5, WP6, WP7 |
| 201810XX_LL_Croatia2-Management-plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | UNIZAG | WP3, WP4, WP5, WP6, WP7 |

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|--|--------------|--|--------------------|----------|------------------------------------|
| 201810XX_LL_Ger many1- Management- plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | LEUPHANA | WP3, WP4, WP5 WP6, WP7 |
| 201810XX_LL_Ger many2- Management- plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | IÖW | WP3, WP4, WP5 WP6, WP7 |
| 20200421_LL_Germ any_Intervention 3_v01 | Quantitative | Online survey | O6 and O7 (WP7) | IÖW | WP7 |
| 202005XX_LLSub WW_updated report after Evaluation_v01 | Qualitative | Review of intervention results and literature | O6 and O7 (WP7) | IÖW | WP7 |
| 201810XX_LL_Ital y-Management- plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | ICLEI | WP3, WP4, WP5 WP6, WP7 |
| 201810XX_LL_Net herlands1- Management- plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | DRIFT | WP3, WP4, WP5 WP6, WP7 |
| 201810XX_LL_Net herlands2- Management- plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | DRIFT | WP3, WP4, WP5 WP6, WP7 |
| 201810XX_LL_Port ugal1- Management- plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | FC.ID | WP3, WP4, WP5 WP6, WP7 |
| 201810XX_LL_Port ugal2- Management- plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with | O6 and O7 (WP7) | FC.ID | WP3, WP4, WP5 WP6, |

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|---|-------------|---|-----------------|-----------|------------------------------------|
| | | Living Lab contacts | | | WP7 |
| 201810XX_LL_Spain-Management-plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | ECO-UNION | WP3, WP4, WP5 WP6, WP7 |
| 201810XX_LL_France-Management-plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | ECO-UNION | WP3, WP4, WP5 WP6, WP7 |
| 201810XX_LL_UK1-Management-plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | UNIVLEEDS | WP3, WP4, WP5 WP6, WP7 |
| 201810XX_LL_UK2-Management-plan_XX_vXX | Qualitative | Review of scientific and secondary literature; Interviews with Living Lab contacts | O6 and O7 (WP7) | UNIVLEEDS | WP3, WP4, WP5 WP6, WP7 |
| 201810XX_LivingLab-NL-Interviews_v02 | Qualitative | Interviews | O6 (WP7) | DRIFT | WP6 WP7 |
| 201810XX_LivingLab-NL-Observations_v02 | Qualitative | Participant observation | O6 (WP7) | DRIFT | WP6 WP7 |
| 2019XXXX_LivingLab-Portugal1-V02 | Qualitative | Workshop report | O6 (WP7) | FC.ID | WP6 WP7 |
| 2019XXXX_LivingLab-Portugal2-V02 | Qualitative | Workshop report | O6 (WP7) | FC.ID | WP6 WP7 |
| 2019XXXX_LivingLab-Spain_v02 | Qualitative | Workshop report | O6 (WP7) | ECO-UNION | WP6 WP7 |
| 2019XXXX_LivingLab-France-V02 | Qualitative | Workshop report | O6 (WP7) | ECO-UNION | WP6 WP7 |
| 2019XXXX_LivingLab-Germany1- | Qualitative | Workshop report | O6 (WP7) | LEUPHANA | WP6 WP7 |

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| V01 | | | | | |
| 2019XXXX_Living Lab-Germany2-V01 | Qualitative | Workshop report | 06 (WP7) | LEUPHANA | WP6 WP7 |
| 2019XXXX_Living Lab-UK1-V01 | Qualitative | Workshop report | 06 (WP7) | UNIVLEEDS | WP6 WP7 |
| 2019XXXX_Living Lab-UK2-V01 | Qualitative | Workshop report | 06 (WP7) | UNIVLEEDS | WP6 WP7 |
| 2019XXXX_LL_Germany1-regelec-civs_v01 | Qualitative | Guideline-based interviews on selected cases | 06 (WP7) | LEUPHANA | WP6 WP7 |
| 2019XXXX_LL_Germany1-regelec-eivs_v01 | Qualitative | Expert interviews | 06 (WP7) | LEUPHANA | WP6 WP7 |
| 2019XXXX_Living Lab-BE1-V01 | Qualitative | Workshop report | 06 (WP7) | ClientEarth | WP6 WP7 |
| 2019XXXX_Living Lab-BE2-V01 | Qualitative | Workshop report | 06 (WP7) | ICLEI | WP6 WP7 |
| 2019XXXX_Living Lab-IT-V01 | Qualitative | Workshop report | 06 (WP7) | ICLEI | WP6 WP7 |
| 2019XXXX_Living Lab-CR1-V01 | Qualitative | Workshop report | 06 (WP7) | UNIZAG | WP6 WP7 |
| 2019XXXX_Living Lab-CR2-V01 | Qualitative | Workshop report | 06 (WP7) | UNIZAG | WP6 WP7 |
| 20200509_SãoLuis_LivingLab_Modelling | Qualitative | Report on the Energy Systems modelling for the São Luis Living Lab | 06 (WP7) | FC.ID | WP6 WP7 |
| 20200515_ReguenosMonsaraz_LivingLab_Modelling | Qualitative | Report on the Energy Systems modelling for Reguengos LL | 06 (WP7) | FC.ID | WP6 WP7 |
| 202005XX_Calliope_Proseu_LL_PT | Other | Calliope Model files | 06 (WP7) | FC.ID | WP6 WP7 |
| 202005XX_Graph_outputs_LLSaoLui | Other | Artwork (4 th LL intervention) | 06 (WP7) | FC.ID | WP7 WP8 |

| s_PT | | | | | |
|---|-------------|---|----------|-----------|-------------|
| 202005XX_Graphical outputs_LLRegue ngos_PT | Other | Artwork (4 th LL intervention) | 06 (WP7) | FC.ID | WP7 WP8 |
| 2019XXXX_kick-off workshop-LL-UK | Qualitative | Workshop report | O6 (WP7) | UNIVLEEDS | WP6, WP7 |
| 2020XXXX_Stakeholders-workshop | Qualitative | Workshop report | O6 (WP7) | UNIVLEEDS | WP6, WP7 |
| 2020XXXX_Living Lab-BE1-V02 | Qualitative | Workshop report | 06 (WP7) | ICLEI | WP6 WP7 |
| 2020XXXX_Living Lab-BE2-V02 | Qualitative | Workshop report | 06 (WP7) | ICLEI | WP6 WP7 |
| 2020XXXX_Living Lab-IT-V02 | Qualitative | Workshop report | 06 (WP7) | ICLEI | WP6 WP7 |
| 2020XXXX_Living Lab-Evaluation Guidance.BE1-v01 | Qualitative | Workshop report | 06 (WP7) | ICLEI | WP6 WP7 |
| 2020XXXX_Living Lab-Evaluation Guidance.BE2-v01 | Qualitative | Workshop report | 06 (WP7) | ICLEI | WP6 WP7 |
| 2020XXXX_Living Lab-Evaluation Guidance.IT_v01 | Qualitative | Workshop report | 06 (WP7) | ICLEI | WP6 WP7 |

Appendix B: Table N°2. Description of PROSEU datasets: data source, format, extension, language, and file size.

| Reference | Data source | Data format | Extension | Language | Size (approx.) |
|--|-------------|-----------------------------|-----------|----------|----------------|
| PROSEU_PT-Factsheet-Prosumption | Secondary | Text/ Numeric/ Images | .pdf | English | 150 KB |
| PROSEU_SP-Factsheet-Prosumption | Secondary | Text/ Numeric/ Images | .pdf | English | 150 KB |
| PROSEU_FR-Factsheet-Prosumption | Secondary | Text/ Numeric/ Images | .pdf | English | 150 KB |
| PROSEU_NL-Factsheet-Prosumption | Secondary | Text/ Numeric/ Images | .pdf | English | 150 KB |
| PROSEU_DE-Factsheet-Prosumption | Secondary | Text/ Numeric/ Images | .pdf | English | 150 KB |
| PROSEU_UK-Factsheet-Prosumption | Secondary | Text/ Numeric/ Images | .pdf | English | 150 KB |
| PROSEU_BE-Factsheet-Prosumption | Secondary | Text/ Numeric/ Images | .pdf | English | 150 KB |
| PROSEU_IT-Factsheet-Prosumption | Secondary | Text/ Numeric/ Images | .pdf | English | 150 KB |
| PROSEU_HR-Factsheet-Prosumption | Secondary | Text/ Numeric/ Images | .pdf | English | 150 KB |
| PROSEU_EU-Factsheet-Prosumption | Secondary | Text/ Numeric/ Images | .pdf | English | 150 KB |
| 20180830_RES-Prosumers_Database_LK_v04 | Secondary | Text/Numeric | .csv | English | 100 KB |

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|---|-------------------|---------------|-------|---|--------|
| 20180830_RES-Stakeholders_Database_LK_v04 | Secondary | Text/Numeric | .csv | English | 100 KB |
| 201811XX_Conceptual Framework_LK_vXX | Secondary | Text | .pdf | English | 100 KB |
| 20180702_WP2_Survey_Questionnaire_LK_v9 | Primary/Secondary | Text/ Numeric | .docx | English/ Portuguese/ Spanish/ French/ Italian/ Dutch/ German/ Croatian | 500 KB |
| PROSEU_Prosumer_Survey_Questionnaire | Primary/Secondary | Text | .pdf | English | 500 KB |
| 201811XX_WP2_Survey Results_LK_vXX | Primary | Text/ Numeric | .csv | English/ Portuguese/ Spanish/ French/ Italian/ Dutch/ German/ Croatian | 200 KB |
| 2019XXXX_Survey_Report_UPORTO_vXX | Primary | Text/ Numeric | .pdf | English | 100 KB |
| 201904XX_Baseline-review_Prosumption_Typologies_v01 | Primary/Secondary | Text | .pdf | English | 8 KB |
| 20181215_Policy_frameworks_v01 | Primary/Secondary | Text | .doc | English | 10 KB |
| 20181215_Policy_guidelines_v01 | Primary/Secondary | Text | .doc | English | 10 KB |
| 20190405_NECPs_preliminary_check_prosumerism_EU_countries_v01 | Secondary | Text | .xlsx | English | 1 MB |

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|---|-----------------------|------|-------|---------|--------|
| 20190405_NECPs_v01 | Primary | Text | .xlsx | English | 200 KB |
| 20190405_NECPs-EU-CleanEnergyPackage_V01 | Secondary | Text | .doc | English | 200 KB |
| 2019_policy brief Participatory governance for the roll-out of the Energy Union | Primary/ Secondary | Text | .doc | English | 1 MB |
| 2020_policy brief Guidance for national transposition of EU directives relating to renewable energy prosumers | Primary/ Secondary | Text | .doc | English | 1 MB |
| 2019XXXX_wp4workshops_v0X | Secondary | Text | .pdf | English | TBC |
| 2019XXXX_wp4workshop_BE_v0X | Primary | Text | .pdf | English | TBC |
| 2019XXXX_wp4workshop_ES_v0X | Primary | Text | .pdf | English | TBC |
| 2019XXXX_wp4workshop_NL_v0X | Primary | Text | .pdf | English | TBC |
| 2019XXXX_wp4workshop_PT_v0X | Primary | Text | .pdf | English | TBC |
| 2019XXXX_wp4civs_FR_v0X | Primary | Text | .pdf | English | TBC |
| 2019XXXX_wp4civs_HR_v0X | Primary | Text | .pdf | English | TBC |
| 2019XXXX_wp4civs_IT_v0X | Primary | Text | .pdf | English | TBC |
| 2019XXXX_wp4civs_UK_v0X | Primary | Text | .pdf | English | TBC |
| 2019XXXX_wp4civs_ | Primary | Text | .pdf | German | TBC |

| | | | | | |
|--|-------------------|--------------|------------|---------|--------|
| DE_v0X | | | | | |
| 2019XXX_wp4fin_v0X | Secondary | Text | .pdf | English | TBC |
| 2019XXXX_wp4civs_DE_v01 | Primary | Text | .docx | German | 140 KB |
| 2019XXXX_wp4civs_FR_v01 | Primary | Text | .docx | English | 40 KB |
| 2020XXX_wp4fincases_vXX | Secondary | Text/Numeric | .xlsx/.csv | English | TBC |
| PROSEU_TechnologyDatabase | Primary/Secondary | Text/Numeric | .csv | English | <10 MB |
| 2018XXXX_TechnologyData_UNIZAGFSB_IOW_CE_v01 | Primary/Secondary | Text | .csv | English | <10 MB |
| 2018XXXX_TechnologyCost_UNIZAGFSB_IOW_CE_v01 | Primary/Secondary | Text | .csv | English | <10 MB |
| 2019XXXX_MeteorologicalData_UNIZAGFSB_IOW_CE_v02 | Secondary | Numeric | .csv | English | <1MB |
| 2019XXXX_EnergySupplyDemand_UNIZAGFSB_IOW_CE_v02 | Secondary | Numeric | .csv | English | <1MB |
| 2019XXXX_LocalScenarios_UNIZAGFSB_IOW_CE_vXX | Primary/Secondary | Text | .pdf | English | <10MB |
| 2019XXXX_NationalScenarios_UNIZAGFSB_IOW_CEB_vXX | Primary/Secondary | Text | .pdf | English | <10MB |
| 2019XXXX_EU-Scenarios_UNIZAGFSB_IOW_CE_vXX | Primary/Secondary | Text | .pdf | English | <10MB |
| 2019XXXX_EU-FocusGroups_UIZAGFSB/IOW/CE_v01 | Primary | Text | .pdf | English | <10MB |

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|--|-------------------|-----------------------------|----------|---------|--------|
| Technology recommendations_UNIZAGFSB/IOW/CE/ICLEI_v01 | Primary/Secondary | Text | .pdf | English | <10MB |
| 2020_technical_recommend_v01 | Primary | Text | .pdf | English | 300 KB |
| 2020XXXX_Technical_potential_prosumer_technologies_CE_Delft | Primary | Text/ Numeric/ Images | .pdf | English | 2 MB |
| 2020XXXX_Workbook_results_Technical_potential_prosumer_technologies_D5.3 | Primary | Numeric | .xlsx | English | 1MB |
| 201810XX_Conceptualisation_Incentive-structures_XX_vXX | Primary | Text | .pdf | English | <8 MB |
| 2020XXXX_PIA-workshops 1 and 2 | Primary | Text/Audio/ Video | .doc/mp4 | English | TBC |
| 2020XXXX_PIA-workshops 3 and 4 | Primary | Text/Audio/ Video | .doc/mp4 | English | TBC |
| 2020XXXX_artwork-backcasting-videos | Primary | Video | mp4 | English | TBC |
| PROSEU_LivingLabs_management-plan_methodological_guidelines | Primary | Text | .pdf | English | 200 KB |
| 201812XX_selection-matrix_XX_vXX | Primary | Text | .xlsx | English | 250 KB |
| 201810XX_LL_Belgium1-Management-plan_XX_vXX | Primary/Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LL_Belgium2-Management-plan_XX_vXX | Primary/Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LL_Croatia1-Management- | Primary/Secondary | Text | .pdf | English | 100 KB |

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|--|-----------------------|---------|-------|---------|--------|
| plan_XX_vXX | | | | | |
| 201810XX_LL_Croatia2-Management-plan_XX_vXX | Primary/ Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LL_Germany1-Management-plan_XX_vXX | Primary/ Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LL_Germany2-Management-plan_XX_vXX | Primary/ Secondary | Text | .pdf | English | 100 KB |
| 20200421_LLGermany_Intervention 3_v01 | Primary | Numeric | Other | German | 1MB |
| 202005XX_LLSubWW_updated report after Evaluation_v01 | Primary | Text | .docx | English | 500 KB |
| 201810XX_LL_Italy-Management-plan_XX_vXX | Primary/ Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LL_Netherlands1-Management-plan_XX_vXX | Primary/ Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LL_Netherlands2-Management-plan_XX_vXX | Primary/ Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LL_Portugal1-Management-plan_XX_vXX | Primary/ Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LL_Portugal2-Management-plan_XX_vXX | Primary/ Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LL_Spain-Management-plan_XX_vXX | Primary/ Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LL_Franc | Primary/ | Text | .pdf | English | 100 KB |

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|--|-----------------------|------------|----------|-------------------|--------|
| e-Management-plan_XX_vXX | Secondary | | | | |
| 201810XX_LL_UK1-Management-plan_XX_vXX | Primary/ Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LL_UK2-Management-plan_XX_vXX | Primary/ Secondary | Text | .pdf | English | 100 KB |
| 201810XX_LivingLab-NL-Interviews_v02 | Primary | Text/Audio | .doc/mp4 | Dutch/ English | TBC |
| 201810XX_LivingLab-NL-Observations_v02 | Primary | Text | .doc | Dutch/ English | TBC |
| 2019XXXX_LivingLab-Portugal1-V02 | Primary | Text | .doc | English | 700KB |
| 2019XXXX_LivingLab-Portugal2-V02 | Primary | Text | .doc | English | 700KB |
| 2019XXXX_LivingLab-Spain_v02 | Primary | Text | .doc | English | TBC |
| 2019XXXX_LivingLab-France-V02 | Primary | Text | .doc | English | TBC |
| 2019XXXX_LivingLab-Germany1-V01 | Primary | Text | .doc | English | TBC |
| 2019XXXX_LivingLab-Germany2-V01 | Primary | Text | .doc | English | TBC |
| 2019XXXX_LivingLab-UK1-V01 | Primary | Text | .doc | English | TBC |
| 2019XXXX_LivingLab-UK2-V01 | Primary | Text | .doc | English | TBC |
| 2019XXXX_LL_Germany1-regelec-civs_v01 | Primary | Text | .pdf | German | TBC |
| 2019XXXX_LL_Germany1-regelec-eivs_v01 | Primary | Text | .pdf | German | TBC |

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|--|-----------------------|-------------------|-------|------------|--------|
| 2019XXXX_LivingLab-BE1-V01 | Primary | Text | .doc | English | TBC |
| 2019XXXX_LivingLab-BE2-V01 | Primary | Text | .doc | English | TBC |
| 2019XXXX_LivingLab-IT-V01 | Primary | Text | .doc | English | TBC |
| 2019XXXX_LivingLab-CR1-V01 | Primary | Text | .doc | English | TBC |
| 2019XXXX_LivingLab-CR2-V01 | Primary | Text | .doc | English | TBC |
| 2020_SãoLuis_LivingLab_Modelling | Primary/ Secondary | Text | .pdf | Portuguese | 1.5 MB |
| 2020_ReguengosMonsaraz_LivingLab_Modelling | Primary/ Secondary | Text | .pdf | Portuguese | 1.5 MB |
| 2020_Calliope_Proseu_LL_PT | Primary/ Secondary | Software language | Other | NA | 10 MB |
| 2020_Graphical outputs_LLSaoLuis_PT | Primary | Artwork | Other | Portuguese | TBC |
| 2020_Graphical outputs_LLReguengos_PT | Primary | Artwork | Other | Portuguese | TBC |
| 2019_kick-off workshop-LL-UK | Primary/ Secondary | Text | .pdf | English | 1-2 MB |
| 2020_Stakeholders-workshop | Primary/ Secondary | Text | .pdf | English | 1-2 MB |
| 2020XXXX_LivingLab-BE1-V02 | Primary | Text | .doc | English | 100 KB |
| 2020XXXX_LivingLab-BE2-V02 | Primary | Text | .doc | English | 100 KB |
| 2020XXXX_LivingLab-IT-V02 | Primary | Text | .doc | English | 100 KB |
| 2020XXXX_LivingLab-Evaluation | Primary | Text | .doc | English | 100 KB |

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|---|---------|------|------|---------|--------|
| Guidance.BE1-v01 | | | | | |
| 2020XXXX_Living Lab-Evaluation Guidance.BE2-v01 | Primary | Text | .doc | English | 100 KB |
| 2020XXXX_Living Lab-Evaluation Guidance.IT1-v01 | Primary | Text | .doc | English | 100 KB |

Appendix C: Table N°3. Example of metadata associated to a specific dataset.

| Metadata | |
|--------------------------------------|--|
| Dataset Reference | PROSEU_EnergySupplyDemand_UNIZAGFSB_IOW_CE_v01 |
| Description | Energy supply and demand data (electricity and heat) on an annual, hourly and sub hourly level |
| Creator(s) | UNIZAG FSB_IOW_CE |
| File version number | v01 |
| Publication date | 20190101 |
| URL for website | www.proseu.eu |
| DOI | doi.org/10.1000/xyz123 |
| Data type & format file | Text and numeric, .csv file format |
| Licence information | Creative Commons Licence (version 4.0) |
| Operating system requirements | No specific requirements |

Appendix D: Table N°4. Description of PROSEU datasets: examples of keywords for openly shared datasets and other type of research data.

| Reference | Keywords |
|---|---|
| PROSEU_EU-Fact sheet-Prosumption | European Union, prosumer, renewable energy sources, self-consumption, Energy Union |
| PROSEU_Survey_Questionnaire | Prosumer, renewable energy sources, self-consumption, drivers, barriers, motivation, questionnaire, survey |
| PROSEU_National_Energy_Climate_Plans | National Energy and Climate Plans (NECP), EU member states, Belgium, Germany, Spain, France, Croatia, Italy, Netherlands, Portugal, UK, self-consumption, energy communities, prosumerism |
| PROSEU_Prosumer_technology_database | Energy production, supply, energy demand, energy storage, Strategic Energy Technologies Information Systems (SETIS) |
| PROSEU_Synthesis of incentive structures: input for Participatory Integrated Assessment | Incentives, Participatory assessment, Prosumers, European Union, mainstreaming, framework, regulation, finance, technology, social |
| PROSEU_RES_Livings-Labs_Operational-Plan | Living labs, co-creation, stakeholders, participation, innovation, framework, roadmap |
| PROSEU_Calliope_Proseu_Living Labs | Software, Open source, Energy Communities, Energy modelling, technology |

Appendix E: Table N°5. Research data openly accessible through the public repository ZENODO.

| Name | PROSEU's Objectives & Related WP | Partners involved | Publication date (ZENODO) | Views (14/05/20) | Downloads (14/05/20) |
|--|----------------------------------|------------------------|--------------------------------|------------------|----------------------|
| PROSEU survey questionnaire. New energy for Europe: Renewable Energy Prosumers Initiatives | O1 (WP2) | UPORTO/ DRIFT/ALL | June 4 th , 2019 | 86 | 64 |
| PROSEU_Renewable Energy country_Factsheet | O1 (WP2) | UPORTO/ ALL | June 17 th , 2019 | 51 | 11 |
| PROSEU Collective RE Prosumers Database(Template) | O1 (WP2) | UPORTO | January 6 th 2020 | 36 | 9 |
| PROSEU Collective RE Prosumers Stakeholders Database (Template) | O1 (WP2) | UPORTO | January 6 th 2020 | 12 | 3 |
| Review and characterisation of collective RE prosumer initiatives (D2.1) | O1 (WP2) | UPORTO/ ALL | December 3 rd 2019 | 23 | 24 |
| A multi-dimensional typology of collective RES prosumers across Europe (D2.2) | O1 (WP2) | DRIFT/ UPORTO | December 19 th 2019 | 17 | 42 |
| National Energy and Climate Plans - Preliminary analysis on Prosumerism for 9 EU Member States | O2 (WP3) | ECO-UNION/ ClientEarth | April 25, 2019 | 40 | 5 |
| Assessment of | O2 (WP3) | ClientEarth/ | March 26, | 56 | 41 |

| | | | | | |
|--|----------|-------------|--------------------------------|---|----|
| existing EU-wide and Member State-specific regulatory and policy frameworks of RES Prosumers (D3.1) | | ECO-UNION | 2019 | | |
| Policy Brief: Strategies for Policy Coherence and Sustainability. Part 1: Relevance of EU policies and frameworks for prosumers (D3.2 -1) | O2 (WP3) | ECO-UNION | December 19 th 2019 | 8 | 10 |
| Policy Brief: Strategies for Policy Coherence and Sustainability Part 2: Sustainability guidance for prosumers and policymakers (D3.2-part 2) | O2 (WP3) | ECO-UNION | December 19 th 2019 | 5 | 4 |
| Principles for Prosumer Policy Options. Recommendations to strengthen prosumers and energy communities in NECPs and other EU, national and local policies (D3.3) | O2 (WP3) | ECO-UNION | December 19 th 2019 | 9 | 30 |
| Policy brief 2: Participatory governance for the roll-out of the Energy Union (D3.4) | O2 (WP3) | ClientEarth | May 6 th 2020 | 3 | 2 |
| Prosumers in the post subsidy era: an | O3 (WP4) | UNIVLEEDS | October 28 th 2019 | 9 | 15 |

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|---|-----------|----------------------------|--------------------------------|-----|----|
| exploration of new prosumer business models in the UK | | | | | |
| Business models for prosumers in Europe (D4.1) | O3 (WP4) | UNIVLEEDS | January 6 th 2020 | 121 | 80 |
| Policies for prosumer business models in the EU (D4.2) | O3 (WP4) | UNIVLEEDS | May 6 th 2020 | 3 | 2 |
| Prosumer technology database (D5.1) (ZIP file) | O4 (WP5) | UNIZAG/ IÔW/ CEDelft | March 27, 2019 | 90 | 21 |
| Economical, environmental and exergetic multi-objective optimization of district heating systems on hourly level for a whole year | O4 (WP5) | UNIZAG | October 28 th 2019 | 13 | 14 |
| Report on local, national and EU scenarios (D5.2) | O4 (WP5) | UNIZAG/ IÔW/ CEDelft | March 25 th 2020 | 28 | 27 |
| Synthesis of incentive structures: input for Participatory Integrated Assessment (D6.1) | O5 (WP6) | DRIFT/ALL | February 19 th 2020 | 16 | 17 |
| RES Living Labs Operational Plan | O6-7(WP7) | ICLEI-Europe | May 31 st , 2019 | 29 | 28 |
| Co-creating Models for RES Prosumerism in Portugal: Our | O6-7(WP7) | FC.ID | May 31 st , 2019 | 47 | 31 |

| | | | | | |
|--|----------|-------------|--------------------------------|----|----|
| Experience working with Living Labs | | | | | |
| Renewable Energy Prosumers in Mediterranean Viticulture Social-Ecological Systems | WP7 | FC.ID | November 29 th 2019 | 10 | 16 |
| Domestic energy service business models: Insights from the PROSEU project | WP7 | UNIVLEEDS | May 14 th 2020 | 2 | 2 |
| Renewable energy in Bristol: Opportunities and challenges in the Post-Subsidy landscape – A kick-off meeting | WP7 | UNIVLEEDS | May 14 th 2020 | - | - |
| PROSEU Data Management Plan (final version) (D1.5) | WP1 | FC.ID | Expected July /2020 | - | - |
| Policy brief 3: Guidance for national transposition of new EU directives and regulations relating to RE prosumers (D3.5) | O2 (WP3) | ClientEarth | Expected Sept/2020 | - | - |
| Stakeholder report on financial innovation for prosumer expansion (D4.3) | O3 (WP4) | LEUPHANA | Expected Sept/2020 | - | - |
| Technology recommendations for renewable | O4 (WP5) | CE Delft | Expected Sept/2020 | - | - |

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|--|----------|---------------------|-----------------------|---|---|
| energy prosumers (D5.3) | | | | | |
| Backcasting video (D6.2) | O5 (WP6) | UNIVLEEDS/ DRIFT | Expected Jan/2021 | - | - |
| Participatory Integrated Assessment and Roadmap to 2030 and 2050 (D6.3) | O5 (WP6) | DRIFT | Expected Mar/2021 | - | - |
| Co-learning and co-creation experiences with renewable energy prosumer Living Labs across Europe (D7.1) | O6 (WP7) | ICLEI | Expected Oct/2020 | - | - |
| RE Prosumers Inspiration book (D7.2) | O6 (WP7) | ICLEI | Expected Feb/2021 | - | - |
| Integrated lessons learned for renewable energy prosumer futures across Europe (D7.3) | O6 (WP7) | FC.ID | Expected Mar/2021 | - | - |
| PROSEU_SãoLuis_LivingLab_Modelling | O6 (WP7) | FC.ID | Expected Jun/2020 | - | - |
| PROSEU_Reguengos_LL_Modelling | O6 (WP7) | FC.ID | Expected Jun/2020 | - | - |
| PROSEU_Calliope_Proseu_Living Labs | O6 (WP7) | FC.ID | Expected Sept/2020 | - | - |
| PROSEU_Living Lab-BE1-V02 | O6 (WP7) | ICLEI | Expected Feb/2021 | - | - |
| PROSEU_Living Lab-BE2-V02 | O6 (WP7) | ICLEI | Expected Feb/2021 | - | - |
| PROSEU_Living Lab-IT-V02 | O6 (WP7) | ICLEI | Expected Feb/2021 | - | - |

| | | | | | |
|---|----------|-------|-------------------|---|---|
| PROSEU_Living Lab-Evaluation Guidance.BE1-v01 | O6 (WP7) | ICLEI | Expected Feb/2021 | - | - |
| PROSEU_Living Lab-Evaluation Guidance.BE2-v01 | O6 (WP7) | ICLEI | Expected Feb/2021 | - | - |
| PROSEU_Living Lab-Evaluation Guidance.IT1-v01 | O6 (WP7) | ICLEI | Expected Feb/2021 | - | - |

Appendix F: Table N°6. Description of PROSEU datasets: availability and access rights in ZENODO.

| Reference | Will be made openly available via an online repository (ZENODO)? | Access right of data stored in ZENODO ¹ |
|---|--|--|
| PROSEU_PT-Factsheet-Prosumption | Yes | Open |
| PROSEU_SP-Factsheet-Prosumption | Yes | Open |
| PROSEU_FR-Factsheet-Prosumption | Yes | Open |
| PROSEU_NL-Factsheet-Prosumption | Yes | Open |
| PROSEU_DE-Factsheet-Prosumption | Yes | Open |
| PROSEU_UK-Factsheet-Prosumption | Yes | Open |
| PROSEU_BE-Factsheet-Prosumption | Yes | Open |
| PROSEU_IT-Factsheet-Prosumption | Yes | Open |
| PROSEU_HR-Factsheet-Prosumption | Yes | Open |
| PROSEU_EU-Factsheet-Prosumption | Yes | Open |
| 20180830_RES-Prosumers_Database_LK_v04 | No: contains personal data | - |
| 20180830_RES-Stakeholders_Database_LK_v04 | No: contains personal data | - |
| 201811XX_Conceptual Framework_LK_vXX | No: working document | - |
| 20180702_WP2_Survey_Questionnaire_LK_v9 | No: working document (final version will be available) | - |
| PROSEU_Prosumer_Survey_Questionnaire | Yes | Open |
| 201811XX_WP2_Survey Results_LK_vXX | No: working document (final version available in D2.1) | - |

¹The public repository ZENODO allows labelling of research data as open, closed, restricted or embargoed. Open data includes files that are publicly accessible; closed access indicates that data may be subjected to specific requirements that make data not able to be publicly accessible; restricted access requires to fulfil specific conditions listed by the authors; and, embargoed access establish when data will be publicly accessible.

| | | |
|---|--|------|
| 2019XXXX_Survey_Report_UPORTO_vXX | No: working document (final version available in D2.1) | - |
| 201904XX_Baseline-review_Prosumption_Typologies_v01 | No: working document (final version available in D2.2) | - |
| 20181215_Policy_frameworks_v01 | No: working document (final version available in D3.2) | - |
| 20181215_Policy_guidelines_v01 | No: working document (final version available in D3.2) | - |
| PROSEU_NECs_preliminary_check_prosumerism_EU_countries | Yes | Open |
| 2019XXXX_NECs_v01 | No: working document (final version available in D3.3) | - |
| 2019XXX_NECs-EU-CleanEnergyPackage_V01 | No: working document (final version available in D3.4) | - |
| PROSEU_policy_brief_Participatory_governance_for_the_roll-out_of_the_Energy_Union | Yes | Open |
| PROSEU_policy_brief_Guidance_for_national_transposition_of_EU_directives_relating_to_renewable_energy_prosumers | Yes | Open |
| 2019XXXX_wp4workshops_v0X | Yes (final version will be available with Deliverable) | Open |
| 2019XXXX_wp4workshop_BE_v0X | No: contains personal data (hard to anonymized) | - |
| 2019XXXX_wp4workshop_ES_v0X | No: contains personal data (hard to anonymized) | - |
| 2019XXXX_wp4workshop_NL_v0X | No: contains personal data (hard to anonymized) | - |
| 2019XXXX_wp4workshop_PT_v0X | No: contains personal data (hard to anonymized) | - |
| 2019XXXX_wp4civs_FR_v0X | No: contains personal data (hard to anonymized) | - |
| 2019XXXX_wp4civs_HR_v0X | No: contains personal data (hard to anonymized) | - |

| | | |
|--|--|---|
| 2019XXXX_wp4civs_IT_v0X | No: contains personal data (hard to anonymized) | - |
| 2019XXXX_wp4civs_UK_v0X | No: contains personal data (hard to anonymized) | - |
| 2019XXXX_wp4civs_DE_v0X | No: contains personal data (hard to anonymized) | - |
| 2019XXX_wp4fin_v0X | Yes (final version will be available with Deliverable) | Open |
| 2019XXXX_wp4civs_DE_v01 | No: contains personal data (hard to anonymized) | |
| 2019XXXX_wp4civs_FR_v01 | No: contains personal data (hard to anonymized) | |
| 2020XXX_wp4fincases_vXX | Yes (final version will be available with Deliverable) | Embargoed (until research is published) |
| PROSEU_TechnologyDatabase | Yes | Open |
| 2018XXXX_TechnologyData_UNIZAGFSB_IOW_CE_v01 | No: working document | - |
| 2018XXXX_TechnologyCost_UNIZAGFSB_IOW_CE_v01 | No: working document | - |
| 2019XXXX_MeteorologicalData_UNIZAGFSB_IOW_CE_v02 | No: working document | - |
| 2019XXXX_EnergySupplyDemand_UNIZAGFSB_IOW_CE_v02 | No: working document | - |
| 2019XXXX_LocalScenarios_UNIZAGFSB_IOW_CE_vXX | No: working document (final version available in D5.2) | - |
| 2019XXXX_NationalScenarios_UNIZAGFSB_IOW_CEB_vXX | No: working document (final version available in D5.2) | - |
| 2019XXXX_EU-Scenarios_UNIZAGFSB_IOW_CE_vXX | No: working document (final version available in D5.2) | - |
| 2019XXXX_EU-FocusGroups_UNIZAGFSB/IOW/CE_v01 | No: working document | - |
| PROSEU_Technology | Yes | Open |

| | | |
|--|--|------|
| recommendations for renewable energy prosumers | | |
| 2020_technical recommend_v01 | Yes (final version will be available with Deliverable) | Open |
| 2020XXXX_Technical_potential_prosumer_technologies_CE_Delft | Yes (final version will be available with Deliverable) | Open |
| 2020XXXX_Workbook_results_Technical_potential_prosumer_technologies_D5.3 | Yes | Open |
| 201810XX_Conceptualisation_Incentive-structures_XX_vXX | No: working document | - |
| 2020XXXX_PIA-workshops 1 and 2 | No: contains personal data | - |
| 2020XXXX_PIA-workshops 3 and 4 | No: contains personal data | - |
| PROSEU_artwork-backcasting-videos | Yes | Open |
| PROSEU_LivingLabs_management-plan_methodological_guidelines | Yes | Open |
| 201812XX_selection-matrix_XX_vXX | No: working document | - |
| 201810XX_LL_Belgium1-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_Belgium2-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_Croatia1-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_Croatia2-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_Germany1-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_Germany2-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_Italy-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_Netherlands1- | No: contractual obligation | - |

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|---|----------------------------|-----------------|
| Management-plan_XX_vXX | | |
| 201810XX_LL_Netherlands2-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_Portugal1-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_Portugal2-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_Spain-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_France-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_UK1-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LL_UK2-Management-plan_XX_vXX | No: contractual obligation | - |
| 201810XX_LivingLab-NL-Interviews_v02 | No: contains personal data | - |
| 201810XX_LivingLab-NL-Observations_v02 | No: contains personal data | - |
| PROSEU_LivingLab-Portugal1-V02 | Yes | Open (Feb 2021) |
| PROSEU_LivingLab-Portugal2-V02 | Yes | Open (Feb 2021) |
| 2019XXXX_LivingLab-Spain_v02 | TBC (working document) | - |
| 2019XXXX_LivingLab-France-V02 | TBC (working document) | - |
| 2019XXXX_LivingLab-Germany1-V01 | TBC (working document) | - |
| 2019XXXX_LivingLab-Germany2-V01 | TBC (working document) | - |
| 2019XXXX_LivingLab-UK1-V01 | TBC (working document) | - |
| 2019XXXX_LivingLab-UK2-V01 | TBC (working document) | - |
| 2019XXXX_LivingLab-BE1-V01 | TBC (working document) | - |
| 2019XXXX_LivingLab-BE2-V01 | TBC (working document) | - |

| | | |
|--|-------------------------------|------|
| 2019XXXX_LivingLab-IT-V01 | TBC (working document) | - |
| 2019XXXX_LivingLab-CR1-V01 | TBC (working document) | - |
| 2019XXXX_LivingLab-CR2-V01 | TBC (working document) | - |
| 2019XXXX_LL_Germany1-regelec-civs_v01 | No: contains personal data | - |
| 2019XXXX_LL_Germany1-regelec-eivs_v01 | No: contains personal data | - |
| PROSEU_kick-off workshop-LL-UK | Yes | Open |
| PROSEU_Stakeholders-workshop | Yes | Open |
| 20200421_LLGermany_Intervention 3_v01 | No: contains personal data | - |
| 202005XX_LLSubWW_updated report after Evaluation_v01 | No: input for WP7 publication | - |
| PROSEU_SãoLuis_LL_Modelling | Yes | Open |
| PROSEU_Reguengos_LL_Modelling | Yes | Open |
| PROSEU_Calliope_Proseu_Living Labs | Yes | Open |
| PROSEU_Graphical_LLSaoLuis_PT | Yes | Open |
| PROSEU_Graphical_LLReguengos_PT | Yes | Open |
| 2020XXXX_Living Lab-BE1-V02 | Yes | Open |
| 2020XXXX_Living Lab-BE2-V02 | Yes | Open |
| 2020XXXX_Living Lab-IT-V02 | Yes | Open |
| 2020XXXX_Living Lab-Evaluation Guidance.BE1-v01 | Yes | Open |
| 2020XXXX_Living Lab-Evaluation Guidance.BE2-v01 | Yes | Open |
| 2020XXXX_Living Lab-Evaluation Guidance.IT1-v01 | Yes | Open |

Appendix G: Table N°7. Costs for making PROSEU research data FAIR.

| Direct costs | Expected total costs |
|---|----------------------|
| Open Access (OA) publications (i.e. project's budget reserved for OA publications) | 14.000€ |
| External servers (located in Germany) that host the PROSEU online project manager platform; total cost for 6 years (i.e. 3 years of the project, plus 3 years after project ends) | 2.656,8€ |
| Domain of the PROSEU online project manager platform (www.project-manager.net) | 36€ (12€/year) |
| Domain and web hosting of the PROSEU website (www.proseu.eu) | 500€ |
| Open source code to build the self-administered questionnaire (web-based) | 370€ |
| Open repository ZENODO (for long-term preservation of public data) | No cost |



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