

REEFLEX

REplicable, interoperable, cross-sector solutions and Energy services for demand side FLEXibility markets

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“This project has used a standard methodology already developed in RE4Industry project (Grant Agreement number: 952936), following EU recommendations. Ad hoc modifications were added to comply with the Grant Agreement conditions for REEFLEX (Grant Agreement Number: 101096192).”



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Abbreviations and Acronyms

Acronym	Description
C&D	Communication and Dissemination
CA	Consortium Agreement
COO	Coordinator
DER	Distributed Energy Resources
DLV/dlv	Deliverable
DoA	Description of Action (annex I of the Grant Agreement)
DSO	Distribution System Operator
EC	European Commission
EV	Electric Vehicles
FEID	Fog Enabled Intelligent Device
GA	Grant Agreement
GDPR	General Data Protection Regulation
ICT	Information and Communication Technology
KPI	Key Project Indicator
MS	Milestone
P2P	Peer-to-peer
PC	Project Coordinator
PMP	Project Management Plan
PMV	Performance Measure and Verification
PO	Project Officer
TL	Task Leader
ToC	Table of Contents
TSO	Transmission System Operator
WP	Work Package
WPL	Work Package Leader



Executive summary

Deliverable 1.3, Responsible Research and Innovation, aims to report the progress of integration of RRI during its first year addressing main issues, seen as the most important of the project: public engagement, open access, gender, ethics, education, governance and science education.

REEFLEX Partners are committed to foster gender equality, compelling with Horizon Europe Gender Equality Guidelines, project tasks and responsibilities have been divided on a non-discriminatory way, regardless sex, age and/or gender.

As for the open access, and due to several key activities on the REEFLEX Project, a promotion to publish as many DLVs as possible has been made. They will be allocated on the project website.

This will also be helpful to ensure the proper integration of the public outreach, and then trying to reach the public in as many ways as possible (events, workshops, news and promotion material for instance), to communicate project outcomes.

As a living document it will be updated during the life span of the project.



1 Introduction

REEFLEX is focused on delivering higher participation of energy consumers in demand side flexibility markets and demonstrating niches of opportunities for new services provided by SMEs and start-ups, seeing a growing number of distributed energy resources (DERs) connected to the network.

These DERs come from an ample variety of energy carriers and sectors, accompanied by the introduction of new digitalized assets. This decentralization poses significant challenges for the resilience of the system, and uncertainty in traditional control routines.

To ensure replicability of REEFLEX solutions, they will be demonstrated and cross-tested in 4 main demonstrators (Spain, Greece, Switzerland, Bulgaria). The services catalogue will be further replicated in three additional replicators to achieve wider coverage (Turkey, Portugal, Denmark).

This first version of the REEFLEX Responsible Research and Innovation (hereinafter RRI) aims to ensure that the project fully has already implemented aims at covering the need of the population participating within REEFLEX Project regardless of their age, sex, gender, race culture and welfare.

The present RRI will be additionally updated under D1.8, Progress report of the Responsible Research and Innovation at M36.

2 Basic points of RRI

The RRI is an approach recently promoted by the European Union's Framework Programmes towards scientific research and technological development processes. There, potential impacts, and effects on the environment and society are considered.

The EC, as shown in Figure 1, focus RRI in 6 main axes and/or themes. These align societal actors to work together during the whole research and innovation process, in order to best define both, the process and its outcomes within the values and expectations of society.





Figure 1 - Main axes of RRI

Within the REEFLEX project there is no actual plan to include exhaustive measures to all the axes, as some will naturally be developed within the scope of the project and others are good practices adopted by Consortium Partners. This, in connection with the open access principle ensures the replicability of the model, as well as the expected results of RRI.

3 Themes of RRI

Hereafter, the main themes of Responsible Research Innovation are explained. From the main axes, the main focus will rely on ethics, gender issues and open access, which also covers the public outreach. The other axes are not explicitly included on this RRI since they are incorporated through the activities of the different work packages and activities to be developed by the Consortium.

3.1 Ethics

Ethics is an integral part of research from beginning to end, and ethical compliance is seen as pivotal to achieve research excellence. Main purpose of Ethics for the REEFLEX Project is compiled on the T1.5, Ethics Management of the project, and collected within D1.1. It sets out the “ethics requirements” that the project must comply with.

The action must be carried out in line with the highest ethical standards and the applicable EU, international and national law on ethical principles.

The most relevant information is compiled within REEFLEX Grant Agreement, and it can additionally be found in Annex 1.



3.2 Gender

REEFLEX partners are committed to foster gender equality following the guidelines provided by the Horizon Europe Gender Equality Plan. On the following table (see Table 1), the distribution of researchers in the Consortium on the first 12 months of the project is shown. About 42% of people working on the project during the first year are female, while 58% were male. Furthermore, about 59% of managerial positions were held by women and the rest by men. For the research staff this ratio is 33% female and 67% male.

Partner	Female Researchers	Male Researchers	Female not researchers	Male not researchers
CIRCE	3	15	6	4
URBENER	4	3	2	1
ZAVI	0	0	2	2
OMIE	1	1	0	0
CERTH	0	7	0	0
WVT	0	0	3	4
INNO	0	0	2	2
QUE	2	2	0	0
UBI	1	1	0	0
SETECH	1	2	0	0
ABILIX	0	1	1	0
UPRC	2	2	0	0
SUITE5	1	4	0	0
ENERB	2	1	1	0
BETT	1	0	2	1
ARC	2	6	0	0
LEI	2	2	0	0
RINA-C	6	9	2	1



CARTIF	1	2	0	0
SIN	4	7	5	3
TEMSA	4	0	2	1
HOLBAEK	0	1	1	1
SEL	0	1	2	0
EDP-NEW	0	1	0	0
AEMSA	0	3	1	2
HIVE	0	2	1	1
SUPSI	0	4	0	0

Table 1 - Gender structure at different levels during the first year of the project

Project Coordinator of the REEFLEX Project encourages partners to warn about any type of discrimination, regardless of age, sex or race they may notice within the lifespan of the activities of the project.

As per Grant Agreement, Gender values can be found within Annex 5, and in Annex 2 of this document.

3.3 Open access

Open access is the practice of providing online access to scientific information that is free of charge to the user and is reusable. It is recognised that by making results widely accessible to all contributes to a better innovation. Open access is not a requirement to publish, though the EC counts on this approach to facilitate and improve the circulation of information. This will grant the dissemination of the project results and outcomes. Should any article be written, the publication will be submitted to the recently available platform Open Research Europe with a venue to publish it in full compliance with the EC open access policies. The article guidelines for publishing in the platform have just been released and submissions are already possible as of early December 2020. Articles guidelines provided by the EC can be found here.

As a first approach for the publication of non-confidential DLVs, the webpage of the project, (<https://reeflexhe.eu/>) will be used. This, together with the dissemination Consortium partners are carrying out on the project social media channels, ensure for a wide spread of information of the project with a wider and diverse target audience. As explained on the executive summary, the open access will help with the public outreach. On the one hand, project partners will gather feedback from the Advisory Board and sister projects to achieve the best possible outcomes.

On the other hand, WP8 of the REEFLEX Project involves the Communication and Dissemination of the project activities. This activity does not solely rely on the WP leader, as it also relies on



every and each member of the consortium. It is on the project scoop the responsibility and will, to hold different events to broaden the audience and stakeholders. These events will be internally managed and organised following the next guidelines:

GUIDELINE	DESCRIPTION
TOPIC	Related within the scope of the project. This is, from market flexibility, technology options, sector's needs, DERs, renewable energies, digitalized assets
EVENTS	Different types of events are envisaged: both general and thematic workshop events, fairs, summits, and workshop hosted by larger events among others
PARTICIPANTS	Conducted mainly by REEFLEX Consortium partners with the participation of representers of sectorial organisations and/or members of the REEFLEX Advisory Board, expert panellists and some of the members populating any of the Committees
AUDIENCE	Main audience will be potential stakeholders (companies, researchers, institutions, energy sector professionals, technology partners, experts as a whole and policy makers), but it will not be limited to them, as anyone interested regardless of their background will be free to join. Both, organisers and partners are encouraged to invite whether it is to contribute on the topic or as a member of the audience anyone that may be interested on the topic
CHANNELS	All the previous steps, as well as the said event and the feedback gathered will be collected on a report which will be later shared on the project web page and the project and Consortium partners social media.

Table 2 - Event guidelines

4 Conclusion

This document pretends to correctly address the team involved in the REEFLEX Project and define their role and know-how, as well as the main and specific objectives of each work package, the relationship and interaction with the associated tasks and an overview of the Gantt (both, overall and for each WP).

Finally, this document will be updated through the project lifespan, in order to properly develop the work expected to be done during its lifetime.



5 Annexes

5.1 Annex 1: Ethics (article 14 Grant Agreement)

“Ethics and research integrity

The beneficiaries must carry out the action in compliance with:

- ethical principles (including the highest standards of research integrity) and
- applicable EU, international and national law, including the EU Charter of Fundamental Rights and the European Convention for the Protection of Human Rights and Fundamental Freedoms and its Supplementary Protocols.

No funding can be granted, within or outside the EU, for activities that are prohibited in all Member States. No funding can be granted in a Member State for an activity which is forbidden in that Member State.

The beneficiaries must pay particular attention to the principle of proportionality, the right to privacy, the right to the protection of personal data, the right to the physical and mental integrity of persons, the right to non-discrimination, the need to ensure protection of the environment and high levels of human health protection.

The beneficiaries must ensure that the activities under the action have an exclusive focus on civil applications.

The beneficiaries must ensure that the activities under the action do not:

- aim at human cloning for reproductive purposes
- intend to modify the genetic heritage of human beings which could make such modifications heritable (with the exception of research relating to cancer treatment of the gonads, which may be financed)
- intend to create human embryos solely for the purpose of research or for the purpose of stem cell procurement, including by means of somatic cell nuclear transfer, or
- lead to the destruction of human embryos (for example, for obtaining stem cells).

Activities involving research on human embryos or human embryonic stem cells may be carried out only if:

- they are set out in Annex 1 or
- the coordinator has obtained explicit approval (in writing) from the granting authority. In addition, the beneficiaries must respect the fundamental principle of research integrity — as set out in the European Code of Conduct for Research Integrity¹.

This implies compliance with the following principles:



- reliability in ensuring the quality of research reflected in the design, the methodology, the analysis and the use of resources
- honesty in developing, undertaking, reviewing, reporting and communicating research in a transparent, fair and unbiased way
- respect for colleagues, research participants, society, ecosystems, cultural heritage and the environment
- accountability for the research from idea to publication, for its management and organisation, for training, supervision and mentoring, and for its wider impacts

and means that beneficiaries must ensure that persons carrying out research tasks follow the good research practices including ensuring, where possible, openness, reproducibility and traceability and refrain from the research integrity violations described in the Code.

Activities raising ethical issues must comply with the additional requirements formulated by the ethics panels (including after checks, reviews or audits; see Article 25 of Grant Agreement).

Before starting an action task raising ethical issues, the beneficiaries must have obtained all approvals or other mandatory documents needed for implementing the task, notably from any (national or local) ethics committee or other bodies such as data protection authorities.

The documents must be kept on file and be submitted upon request by the coordinator to the granting authority. If they are not in English, they must be submitted together with an English summary, which shows that the documents cover the action tasks in question and includes the conclusions of the committee or authority concerned (if any).”

5.2 Annex 2: Values (article 14 Grant Agreement)

“Gender mainstreaming

The beneficiaries must take all measures to promote equal opportunities between men and women in the implementation of the action and, where applicable, in line with the gender equality plan. They must aim, to the extent possible, for a gender balance at all levels of personnel assigned to the action, including at supervisory and managerial level.”

