



*LC-SC3-RES-1-2019-2020*  
*Developing the next generation of renewable energy technologies*

# **CONDOR**

## **COmbined suN-Driven Oxidation and CO<sub>2</sub> Reduction for renewable energy storage**

Starting date of the project: 01/11/2020  
Duration: 48 months

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### **= Deliverable D9.2 =**

#### **Dissemination and Communication Strategy**

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PU	Public	x
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	



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## CONDOR

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## Executive Summary

Timely and effective communication and dissemination of results are an essential part of every research and innovation project. This ensures that the gained knowledge or exploitable outcomes can benefit the whole society, and that any duplication of research and development activities is avoided.

This document summarizes the strategy for disseminating the results of the CONDOR project and the activities planned to give high visibility to the project, its achievements and partners. Dissemination activities and promotional materials will be developed with the aim to support the project exploitation, trying to attract and involve the stakeholders and end users through specific communication activities.

This dissemination and communication strategy for the CONDOR project has been developed as a preliminary plan to fulfil the aforementioned goals. This strategy will also ensure that all possible communication and dissemination routes are identified and used throughout the course of the project. Additional routes will potentially be investigated and if found relevant will be integrated in the communication and dissemination road map at a later date.

Nevertheless, it is necessary to mention that the communication and dissemination of the project's achievements should never jeopardize the potential protection of generated intellectual property (e.g. patent, product design) and further industrial application. Therefore, before any activity (e.g. publication, presentation, etc.) strict rules of prior notice to all partners will be applied according to EC guidelines and to the CONDOR Consortium Agreement. Partners will have the possibility to refuse dissemination of their own know-how (background or results) when it could potentially harm their interests.

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## 1. Introduction

Deliverable D9.2 *Dissemination and Communication Strategy* is part of *Task 9.1 Dissemination, communication and public events*. Part of this task is the definition of a working document outlining the dissemination strategy (definition of procedures, target audience, messages, and timelines) and communication strategy (means, methods and tools used to approach the defined target audience during the life of the project). The Dissemination activities and plan will be updated periodically using “CONDOR recording dissemination” Excel file and information about dissemination will be also included in the periodic reports.

The dissemination strategy outlines the main elements and strategic choices regarding the dissemination activities of the CONDOR project towards the most important stakeholder groups. The document will enable the project team to properly plan and implement all required dissemination activities in order to achieve the identified main objectives: implementation of communication activities targeted towards different stakeholders, production of publicity materials for project outputs awareness and involvement of the community throughout all phases of the project. Actively participating in conferences, workshops, trade-shows and courses, as well as fostering relationships with other framework projects and initiatives (clustering activities) are key initiatives for this plan.

## 2. Dissemination and Communication rules

### 2.1. Approval of dissemination activities

Partner AMIRES (Anastasia Grozdanova, WP9 leader) will be responsible for dissemination and communication activities. AMI will monitor the latest achievements of the project and will suggest the best dissemination channels for scientific and industrial awareness.

In relation to the external communication, it has to be mentioned that the dissemination of the project's achievements should never jeopardise the protection of generated intellectual property (e.g. patent, product design) or further industrial application. In order to address this, before any dissemination activity (publication, presentation) **strict rules of prior notice to all partners will be applied, according to EC guidelines**. Partners will have the opportunity to refuse dissemination of their own know-how (background or results) by others when it could potentially harm the partner's interests. The Dissemination Manager in cooperation with the Exploitation Manager will follow all approval processes and will act as an internal executive approval body for any dissemination action organised by different partners.

All project outcomes will acknowledge the support of the European Commission as requested by *Article 29 Dissemination of Results, Open Access, Visibility of EU Funding* and *Article 38 Promoting the Action, Visibility of EU Funding* of the H2020 MGA and follow its principles. Unless it goes against their legitimate interests, each beneficiary must disseminate its results by disclosing them to the public by appropriate means (other than those resulting from protecting or exploiting the results), including in scientific publications (in any medium). This does not change the obligation to protect results in Article 27, the confidentiality obligations in Article 36, the security obligations in Article 37 or the obligations to protect personal data in Article 39, all of which still apply. The process of dissemination can be found in more detail (e.g. time schedule for prior notice and partner's approval) in the signed Consortium Agreement.

Prior notice of any planned publication should be given to other consortium members at least 30 calendar days before the publication. Any objection to the planned publication shall be made in accordance with the Grant Agreement in writing to the Coordinator and to the consortium member proposing the dissemination within 30 calendar days after receipt of the notice. If no objection is made within the time limit, the publication is permitted.

Figure 1 represents the timeline of the publication approval.

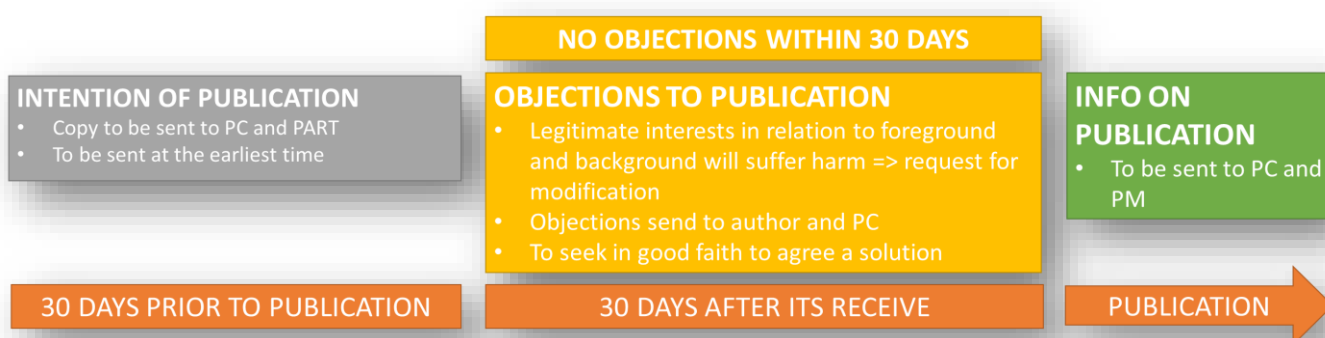


Figure 1: CONDOR timeline for publication approval

The following information shall always be stated in the publication: *“This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101006839”.*

The procedures to allow all dissemination materials to be quality assured, including both the content and layout, are established with the aim of checking:

- messages transmitted outside of the consortium, including the suitability of the messages for the people addressed, emphasising the benefits and relevance for industry (when applicable);
- technical contents control in order to ensure the quality of achieved scientific and research objectives;
- that scientific papers and publications contain sufficient reference to the project; and
- layout quality and overall suitability.

## 2.2. Partner guidelines for dissemination recording

The European Commission is encouraging the Dissemination Leaders to record, track, monitor, coordinate and report all the project dissemination activities (publications, participation in events, contributions to press and media) within the Periodic Reports. **An Excel file has been prepared in order to track each partner’s contribution, keep a complete list of possible future actions, and monitor/assess each dissemination activity.**

This file, created at the very beginning of the project, is composed of three different sheets:

- Scientific publications (Figure 2)
- Events (Figure 3)
- Press & Media (Figure 4)

The tables include information about each dissemination activity performed within the project (type and title, URL and references, targeted public and participants, date, location, CONDOR partner responsible for such dissemination, visibility level, etc.) and associated methods (attendance, abstract submission, poster show, distribution of materials like fact sheet, newsletter, etc., oral presentations, DEMO/video show, stand/booth, press releases, post in social media, interviews and videos, etc.). It is distributed amongst the consortium members and updated internally every 6 months of the CONDOR project duration. The updated information will be inserted in the official Periodic reports towards EC in M18, M36 and M48.

## CONDOR

Dissemination recording and plan								
Name of the journal/book	Publisher/ editor	D.O.I. (*)	Title of the publication (#)	Partner responsible/ main author	Authors	Cost of the Gold Open Access	Date of submission	Date of publication

Figure 2: Dissemination Recording – Scientific Publication

Dissemination recording and plan																
Type of event (*)	Name of event	URL	Date	Place	Partner responsible participants	Targeted audience (#)	Number of participants / Visibility (€)	Outputs (i.e. n. of contacts taken - see sheet "contacts")	Dissemination activity							
									Attendance	Abstract submission	Paper submission	Poster submission	Lecture/Powerpoint presentation	Brochure/Newsletter distribution	Video/ DEMO	Booth/ stand

Figure 3: Dissemination Recording – Events

Dissemination recording and plan											
Press and Media (*)	URL	Publication date	Partner responsible/ author	Targeted audience (#)	Language	Visibility (€)	Dissemination activity				
							Publication in paper form	Web article	Web post	Visual contents	Interview

Figure 4: Dissemination Recording – Press and Media

The following guidelines were provided to the partners as procedures for disseminating CONDOR (i.e. submit a peer reviewed article, attend a conference, have a booth at a trade fair, publish press releases, post online information about the project, communicate with media, etc.):

- Send an email to the Dissemination Leader and to the other involved partners (i.e. coordinator and co-authors for publications) with basic information about the planned dissemination activities, respecting the clauses of prior to notice, approval and acknowledgement.
- The Dissemination Leader will update the Excel file that will be made available for partners on the OwnCloud server. Co-authorships in scientific publications are encouraged and possible joint participation of different CONDOR partners at the same event will be coordinated by the Dissemination Leader.
- Once the article is published/ the conference or exhibition is closed/ the link to media channels is available, send to the Dissemination Leader by email some additional information for repository and update of the Excel.
- One month before the 6M internal report, the " CONDOR recording dissemination" Excel file will be circulated by email amongst the project partners for a double check and updates.

These guidelines give the project team the possibility to provide regular updates to the EC about the project dissemination and the exploitation from the project partners and to remain updated about project publications and upcoming events.

### 2.3. Publication policy and open access

Partners agree to generate peer-reviewed articles resulting from projects to an institutional or subject-based repository, for example Open AIRE, and to make their best efforts to ensure open access to these articles, at time of publication or at the latest within six months after publication. **The open access will be in line with Article 29.2 H2020 MGA on open access to scientific publication and the “green” or “gold” model will be used depending on the strategy of the consortium with regard to the specific peer-reviewed scientific publication.**

Each beneficiary must ensure open access (free of charge online access for any user) to all peer reviewed scientific publications relating to its results (Article 29.2 H2020 MGA). In particular, it must:

- Deposit a machine-readable electronic copy of the published version or final peer-reviewed manuscript accepted for publication in a repository for scientific publications; moreover, the beneficiary must aim to deposit the research data needed to validate the results presented in the deposited scientific publications.
- Ensure open access to the deposited publication at the latest:
  - upon publication, if an electronic version is available for free via the publisher, or
  - within six months of publication in any other case.
- Ensure open access to the bibliographic metadata that identify the deposited publication.

CONDOR ownCloud is used for internal open access repository. CONDOR Website will provide information about and links to the Open Access Document of all scientific publications generated from CONDOR results.

During the CONDOR project’s course, various research data and results will be collated and generated throughout the duration of the project. The main research results will be shared with the scientific community and general public through the World Wide Web. The emphasis of data management will be on faithful and reproducible record keeping, with an emphasis on transparency and accountability. The consortium has a preliminary plan with respect to managing products of research; data format and content; data access and sharing; re-use and redistribution; and archiving and preservation of access. This will be outlined in the Data Management Plan (Deliverable 10.8).



### 3. CONDOR Dissemination and Communication Strategy

#### 3.1. Timeline

CONDOR communication and dissemination activities are suggested as follows:

- development and maintenance of the project webpage
- preparation of the promotional materials
- organization of the CONDOR events
  - workshops
  - final CONDOR conference
- dissemination/publication of the CONDOR results:
  - at key conferences in Europe
  - in relevant scientific and industrial journals
  - contribution to technology news servers
- EU and national projects clustering activities
- EAB cooperation

CONDOR Dissemination plan foresees distinguishable phases of dissemination & communication activities during the course of the project as described below:

Table 1: CONDOR Dissemination plan timing

Project period	Dissemination Activities
<b>Year 1</b> (M1 – M12)	<ul style="list-style-type: none"> <li>– set up of dissemination strategy</li> <li>– webpage creation</li> <li>– preparation of dissemination materials: factsheet, leaflet, rollup etc.</li> <li>– clustering activities</li> <li>– first CONDOR presentations at events</li> <li>– press release introducing the project and summarizing first results</li> </ul>
<b>Year 2</b> (M13 – M24)	<ul style="list-style-type: none"> <li>– dissemination strategy implementation</li> <li>– continuous webpage update</li> <li>– clustering activities</li> <li>– scientific publications of the CONDOR results</li> <li>– partners participating in conferences and symposia in related domains</li> <li>– training (satellite event of the IX Ciamician Photochemistry School)</li> </ul>
<b>Year 3</b> (M25 – M36)	<ul style="list-style-type: none"> <li>– dissemination strategy implementation</li> <li>– continuous webpage update</li> <li>– clustering activities</li> <li>– scientific publications of the CONDOR results</li> <li>– partners participating in conferences and symposia in related domains</li> <li>– workshop for Solar fuel community</li> </ul>
<b>Year 4</b> (M37 – M48)	<ul style="list-style-type: none"> <li>– dissemination strategy implementation</li> <li>– continuous webpage update</li> <li>– scientific publications of the CONDOR results</li> <li>– partners participating in conferences and symposia in related domains</li> <li>– final CONDOR conference</li> <li>– final project video summarizing the whole project progress</li> <li>– final press release summarizing the whole project</li> </ul>

### 3.2. Target audience

Various communication tools will be used and will be tailored to the needs of various stakeholders and audiences. The target audiences will include scientific community, SMEs and industries (i.e. fuels manufacturers, steel, cement, aluminium, plastic and chemical industries, engineering companies, etc.), social and environmental stakeholders, end-users (i.e. utilities), associations, policy makers, EC and media. The identified channels and tools for the communication and dissemination are introduced in the following Chapter.

A provisional Dissemination Plan is listed in the Table 2 and includes the target audience as well as the target KPIs given for the duration of the project.

Table 2: CONDOR target audience and dissemination KPIs

Target groups	Measure for dissemination	Target value	Impact
<b>Research community / Education</b>	Presentations at international conferences	24	Disseminate technical achievements. Setup collaborations for research activities. Education of users.
	Publications in international journals	12	
	Integration of modules with project results in regular courses	3	
<b>Industries and SMEs</b>	Project workshops	3	Direct contacts with customers at booth. Discussing licensing.
	Exhibitions and trade fairs	3	
	Interest of industrial customers on Technology Exploitation	10	
<b>Broad public and media</b>	Project Website (M4): Total Number of Visits expected	5000	Create awareness about the project, its objectives and impact on the EU community
	Public deliverables will be made available: N° of downloads	500	
	Non-scientific publications (articles, press releases, videos): total numbers of readers reached	3000	
	Posts in social media (e.g. Twitter): total numbers of readers reached	5000	
	Flyers/Poster distributed at conferences, workshops, etc.	500	
<b>End-users</b>	Project workshops: total number of participants	300	Technology replicability and business opportunity
	Publications in specialised magazines	4	
	Presentations at specialized events	5	
<b>Standards &amp; regulation bodies</b>	Project workshops	3	Transfer of the pre-normative activities to the committee
	Standardisation groups the project will interact with	1	
<b>Policy makers and EC</b>	Participation in EU commission's consultation & other worldwide regulatory in the field of interest	1	Interaction with EU, and local authorities or communities.
	Clustering events	5	
	Project workshops	3	

Communication activities will be monitored and followed-up to maximize their impact. Project Officer will be regularly informed about the communication outcomes and based on his decision EC communication channels could be used too.

Planned dissemination at in-person trade fairs, conference and workshops will be possible only depending on the evolution of the Covid-19 emergency. In the meantime, the consortium will pursue dissemination at on-line and virtual events, strictly monitoring the evolution of the crisis.

### 3.3. CONDOR logo

Some proposals for the project logo were designed and discussed with the coordinator, based on which the following logo (Figure 5) was chosen as the best graphical representation of the project idea. The project logo is used in all the project related advertising materials including templates, website, fact sheet, etc.



Figure 5: CONDOR project logo

### 3.4. CONDOR project website

The CONDOR project website (<https://condor-h2020.eu>) has been set up in order to increase public awareness of the project. The CONDOR website has been operational from November 2020 in a provisional version (with basic information on the project i.e. project facts, the publishable abstract, list of partners and contacts) and from February 2021 in a full version.

**CONDOR**

Combined sun-Driven Oxidation and CO<sub>2</sub> Reduction  
for renewable energy storage

Call Identifier: H2020-LC-SC3-2020-RES-RIA  
Topic: LC-SC3-RES-1-2019-2020 Developing the next generation of renewable energy technologies  
Starting date: 1st November 2020  
Duration of the project: 48 months

**Abstract:**

Conversion of sunlight into fuels and mitigation of anthropogenic climate change are big scientific challenges. CONDOR addresses both of them by developing highly efficient solar-driven conversion of CO<sub>2</sub> into fuels and added-value chemicals. We propose a photosynthetic device made of two compartments (a) a photoelectrochemical cell that splits water and CO<sub>2</sub> and generates oxygen and syngas, a mixture of H<sub>2</sub> and CO; (b) a photo-reactor that converts syngas into methanol and dimethylether (DME), via bi-functional heterogeneous catalysts. The proposed modular approach enables different configurations depending on the target product. The oxidation process is not limited to O<sub>2</sub> production, but entails chlorine and small organic molecules, such as 2,5-furandicarboxylic acid, derived from the oxidation of low-cost and easily available precursors like salt water or alcohol derived biomass, respectively. Employed materials will be obtained through low energy/low temperature routes, mainly based on wet chemical procedures, such as sol-gel chemistry, mild hydrothermal processes, electrochemical processes at ambient temperature. Raw materials precursors will not be limited by availability on a global scale, making use of organic species, silicon, earth abundant metal oxides, first row transition metals. The final target is a full photosynthetic device with 8% solar-to-syngas and 6% solar-to-DME efficiencies with three-months continuous outdoor operation.

This represents a large progress with respect to the state of the art and requires an international collaboration and a multidisciplinary approach, which integrates expertise in nanomaterials preparation and characterisation by operando microscopy and spectroscopy, homogeneous and heterogeneous catalysis, photochemistry/photoelectrochemistry, PEC engineering and assessment of the environmental and socio-economic impact of the proposed technology, including life cycle assessment.

No.	Participant organisation name	Short name	Country
1.	Alma Mater Studiorum – Università Di Bologna	UNIBO	Italy
2.	Fundacio Privada Institut Català D'investigació Química	ICIQ	Spain
3.	Consiglio Nazionale Delle Ricerche	CNR	Italy
4.	Universiteit Utrecht	UU	Netherlands
5.	Università Degli Studi Di Ferrara	Unife	Italy
6.	ENGIE	ENGIE	France
7.	Belgisch Laboratorium Van De Elektriciteitsindustrie Laborelec CVBA	LAB	Belgium
8.	HYGEAR BV	HyGear B.V.	Netherlands
9.	Amires s.r.o.	AMI	Czech Republic
	International partner: The University of North Carolina at Chapel Hill (UNC), USA		

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Project Manager: Anastasia Grozdanova, [grozdanova@at.amires.eu](mailto:grozdanova@at.amires.eu)

Figure 6: CONDOR project provisional webpage



Figure 7: CONDOR project website

The website has been created in Open Source software called WordPress. WordPress started as a blogging system but has evolved to be used as full content management system, that is completely customisable and can be used for almost anything within the field of web design. It allows fast and reliable customisation and has a user-friendly back-office environment which is a key for the website updates and file uploads.

The website is available for both consortium members' and public access. The website will be actively maintained during the project duration and will also be used as a management tool. The website provides acknowledgement of EU funding as follows: " *This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101006839.*

Project website is described in detailed in Deliverable D9.1.

### 3.5. CONDOR Dissemination materials

Several types of dissemination materials will be prepared during the project's lifespan in order to create awareness and inform wide and various audiences on the CONDOR project and its development. The CONDOR dissemination materials will be extensively used by CONDOR partners whenever they present at conferences, publish in journals and magazines, establish contacts with media, attend exhibitions, organize workshops with end users, etc.

All the materials will be distributed to the consortium partners and uploaded to the ownCloud server and project's website.

### 3.5.1. CONDOR fact sheet

In order to provide broad public, as early as possible, with information about the project, a fact sheet (Figure 8) about CONDOR has been designed. The factsheet has been prepared in order to give basic information including project overview along with technical description and implementation. The objective of the information materials is to present the project in a short, simple, and easy to read way. It includes general project information, the project concept and expected aim. The material also includes information on the consortium members, logos of partners, contacts of the project coordinator and manager as well as a link to the project's webpage and Twitter account. The fact sheet can be distributed both electronically and in printed form by each partner during events and meetings with stakeholders.

**H2020 project fact sheet:**  
**Combined sun-Driven Oxidation and CO<sub>2</sub> Reduction for renewable energy storage**  
**CONDOR**

**Introduction:**  
 Over 80% of the world's primary energy supply is currently provided by fossil fuels. This implies the release of about 34 Gt(y of CO<sub>2</sub>) into the atmosphere, which is the primary cause for the global warming that is already affecting the life of millions of people all over the world. Climate stability is a key prerequisite for the existence of modern civilization, therefore the decarbonisation of the global economy is a pressing need in the interest of present and future generations. The decarbonisation of the electricity sector is widening, due to the enormous growth of photovoltaic and wind, which now represent the by far largest share in new installed electric capacity at the global level, i.e., over 60% (in the other hand, fuel supply – which covers about 75% of final energy demand, particularly in the transport and heating sector – is still dominated by fossil resources, i.e., oil, gas and coal). This is because the production of fuels (and chemical) by renewable technologies is at a much lower level of advancement with respect to electricity. This calls for an enhanced effort for research and development in this area, which is exactly where the proposal CONDOR is positioned.

**Project description:**  
 CONDOR targets a modular device for the production of fuels by using water and carbon dioxide as feedstock and sunlight as the sole energy source. This is the most convenient way to store an intrinsically intermittent primary energy source (sunlight) into high-density energy carriers that can be used whenever needed (fuels). The latter are termed solar fuels.

**Project facts:**  
 Start date: 01/11/2020  
 End date: 31/10/2024  
 Duration in months: 48  
 Project budget: € 3.98 M  
 Research & Innovation Action  
 Grant Agreement: 101006839  
 Call: H2020-LC-SC3-2020-RES-RIA  
 Topic: LC-SC3-RES-1-2019-2020  
 Developing the next generation of renewable energy technologies

**Keywords:**  
 Renewable energy sources  
 Artificial photosynthesis,  
 Photoelectrochemical cell,  
 Heterogeneous catalysis,  
 Storage,  
 Solar fuel,  
 Electrocatalysis

**Expected impacts:**  
 1. Contribute to accelerating and reducing the cost of the next generation of sustainable renewable energy generation.  
 2. Advance the knowledge and scientific proofs of the technological feasibility of the concept including the environmental, social and economic benefits.  
 3. Show contribution towards establishing a solid European innovation base and building a sustainable renewable energy system.

**Project teams:**  
 To meet the challenging scientific and technological goals of CONDOR, a multidisciplinary approach is needed, integrating expertise in chemical synthesis, nanomaterials preparation and characterization, heterogeneous catalysis, photochemistry, electrochemistry and photoelectrochemistry, as well as gas purification, chemical engineering and life cycle analysis (LCA). All the required competences and equipment are available in the consortium.

**Consortium:**  
 UNIBO IT  
 FCN ES  
 CNR IT  
 UU NL  
 UNIGE IT  
 ENGIE FR  
 LAB BE  
 HYG NL  
 AME CZ  
 UNC US

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**Twitter:**  
[@CONDOR\\_EU](https://twitter.com/CONDOR_EU)

**Partners:**  
 HYGEAR National Research Council of Italy  
 Utrecht University  
 ENIGIE  
 ORIGEN  
 ENGIE Laboratoire  
 AMIES

**Logos:**  
 HYGEAR, Utrecht University, ENIGIE, ORIGEN, ENGIE Laboratoire, AMIES, National Research Council of Italy, UNIBO, FCN, CNR, UU, UNIGE, ENGIE, LAB, HYG, AME, UNC.

**Figure 1: Scheme of the CONDOR device affording the solar driven conversion of CO<sub>2</sub> and H<sub>2</sub>O into fuels.**

Figure 8: CONDOR fact sheet

### 3.5.2. CONDOR leaflets

In order to provide a broad public with information about the project, promotional material like project leaflets, brochures, etc. about CONDOR will be created and distributed widely in all key events and through a regularly updated database of contacts (including newcomers registering through the web site). If possible, infographics will be used for better visualization of the information and project's objectives.

### 3.5.3. CONDOR roll-up

The project roll-up can have different objectives and targets: to catch the attention with visual contents during exhibitions and workshops with stakeholders (also stimulating questions and requests for more details) and/or provide technical details, showing the scientific results, in a short way, to scientists and experts during conferences and other events. In order to make the presentation of the CONDOR project in different events a roll-up will be developed including general project information, a description of the CONDOR concept with visual contents, logos of partners and the webpage link. Further posters displaying scientific content could be developed by the partners and presented during scientific symposia and conferences, showing the tangible results and data the achievements.

### 3.5.4. Video

A short video spot about the project will be made and distributed through the project's communication channels. The video will target a broad public, with simple language and catching visual contents.

### 3.5.5. Press conference and press releases

The aim of the press releases is to attract favourable media attention and provide publicity for the project and its events. Press releases will be written and circulated to relevant media list, at least at the beginning, in the middle and at the end of the project. All press releases connected to the CONDOR project will be available on the project website.

At least one press conference will be organized during the project lifespan to inform the media about the project content, targets and achievements. Project beneficiaries will be interviewed for TV/print media outcomes.

### 3.6. Social Media

During the implementation of the CONDOR project, tools like LinkedIn, Twitter, YouTube, Wikipedia, etc. will be considered to address the potential impact especially to the younger generation and to have the feedback from various audiences.

Short news on the CONDOR project and its development would be prepared and shared on the identified tools especially during events, conferences and symposiums. Social media will be also considered as a communication channels to disseminate potential clustering activities.

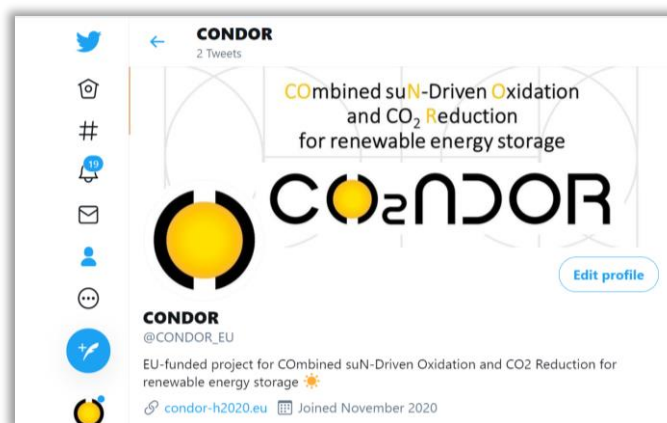


Figure 9. CONDOR Twitter account

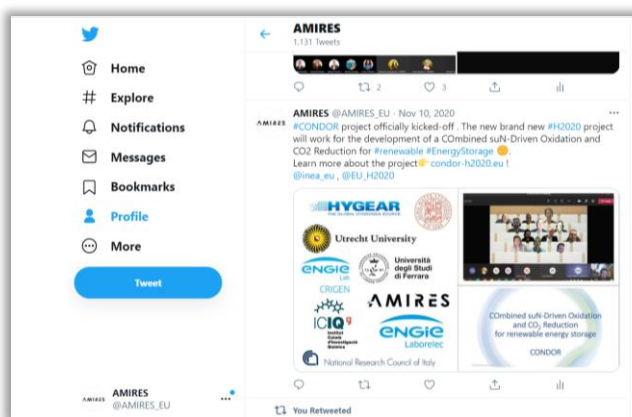


Figure 10. CONDOR post in Twitter

The created social media tools will be maintained during the whole lifetime of the CONDOR project implementation and will be used as a tool to disseminate the tangible results.

### 3.7. CONDOR events

Events organized by the CONDOR project are suggested in following directions: organization of project workshops and final CONDOR conference.

#### 3.7.1. Project workshops

Two events will be organised:

- Workshop '*Unlocking barriers to deployment of CONDOR technologies*': an international industry-oriented workshop with the support of CO<sub>2</sub> Value Europe will gather relevant stakeholders and experts from the Solar fuel community, e.g. SUNERGY community;

- Training ‘Solar fuels from CO<sub>2</sub> reduction: CONDOR as a case study’: a training organized by UNIBO as a satellite event of the IX Ciamician Photochemistry School to present the CONDOR technology within the framework of solar energy exploitation and mitigation of CO<sub>2</sub> emission.

Each of these events will be an opportunity for the CONDOR project to interact directly with the respective community, both to collect feedback and to disseminate the project results.

### 3.7.2. Final CONDOR conference

At the end of the project, the consortium will organize a final conference workshop in order to promote the developed CONDOR system, its performances and potential applications. The event will be open to external participants: scientific community, social and environmental stakeholders, engineering companies, SMEs, industries, end-users (i.e. utilities), associations, policy makers, EC, and journalists (a press conference will be organized). Detailed information about the conference including the exact content, speakers, targeted audience, etc. will be discussed.

## 3.8. Publication of CONDOR results

Publication of CONDOR results to relevant scientific and industrial periodicals, journals and key conferences in Europe will be assured throughout the whole project lifetime.

### 3.8.1. Scientific articles in journals

Joint publications from different partners are encouraged during the course of the project. The main scientific results of the project will be published OPEN ACCESS in Scientific journals (either by submitting to dedicated open access peer-reviewed journals or using the “Open Access” Option of well-established Scientific Journals with a high impact factor).

Examples of journals, where contributions from CONDOR partners might be expected (the list is not exhaustive):

- Renewable Energy
- Journal of the American Chemical Society
- Nature Energy
- Nature Chemistry
- Angewandte Chemie
- ChemSusChem
- Journal of Materials Chemistry
- Energy and Environmental Science
- ACS Applied Materials and Interfaces
- ACS Energy Letters
- ACS Catalysis
- Applied Catalysis
- Sapere

### 3.8.2. Presentation at conferences, symposia, meetings

A set of conferences and symposia in the renewable energy domain has been identified by partners to disseminate CONDOR results. During these events, the representatives of the project will have the possibility to communicate the project’s scope and possible interaction and exchange with initiatives and projects in related fields.

Here are examples of events, where presentation of the CONDOR project will be considered (the list is not exhaustive, and it will be updated):

- International Solar Fuels Conference (ISF), [www.sciencesconf.org/browse/conference/?confid=10146](http://www.sciencesconf.org/browse/conference/?confid=10146)
- EuChemS Conference, [www.euchems.eu](http://www.euchems.eu)
- The Electrochemical Society Meeting, [www.electrochem.org](http://www.electrochem.org)

- The International Union of Pure and Applied Chemistry (IUPAC) Symposium on Photochemistry, [www.iupac.org](http://www.iupac.org)
- The International Renewable Energy Storage (IRES) Conference, [www.eurosolar.de](http://www.eurosolar.de)
- International Conference on Semiconductor Photochemistry (SP) Conference, [www.sp7.unimi.it](http://www.sp7.unimi.it)
- European Materials Research Society Meeting (E-MRS), [www.european-mrs.com](http://www.european-mrs.com)
- Molecules and Materials for Artificial Photosynthesis Conference
- Gordon Research Conference on Renewable Energy: Solar Fuels, [www.grc.org](http://www.grc.org)
- International Conference on Artificial Photosynthesis (ICAP), <https://waset.org/artificial-photosynthesis-conference-in-may-2021-in-istanbul>

Partners will provide updated information about events attendances in the 6-months internal report. Clustering activities with other projects will provide more opportunities to participate in dissemination activities.

### 3.8.3. Other forms of publications

CONDOR will comply with knowledge sharing arrangement and will actively contribute to CORDIS - periodically, each time after the latest achievements, at least at the beginning and at the end of the project.

### 3.9. Clustering activities

During the project, information related to current projects dealing with alternative renewable energy systems will be shared and clustering activities will be encouraged. CNR, ICIQ and ENGIE are members of the *SUNERGY* initiative so they will promote CONDOR to key stakeholders in Europe in the field of solar fuels. *AMPEA, the Joint Programme of EERA* devoted to research on materials and processes for energy applications (UNIBO, ICIQ and CNR are members), expressed interest in this project. ENGIE is also member of two associations, *Eurogas* and *Solar Power Europe*, with an excellent network in which project results will be disseminated. CONDOR will participate actively in clustering events such as *EUSEUW (Sustainable Energy Week)* and *Solar Fuel Network*.

The project will also contribute, upon invitation by the INEA, to common information and dissemination activities to increase the visibility and synergies between H2020 supported actions.

### 3.10. EAB cooperation

External Advisory Board (EAB) has been created to ensure high visibility to the project and wide participation of stakeholders groups. Its members will advise to the best dissemination & exploitation routes. The information about the project can be spread by the EAB members within their professional and personal networks.

The current list of EAB members includes the following representatives:

- Prof. Marc Robert, Université de Paris
- Dr. Frédéric Chandezon, Coordinator of the EERA Joint Programme AMPEA, Deputy coordinator of the *SUNERGY* initiative, Head of SyMMES laboratory;
- Sergio Aquenza, Technical Commercial Manager, Techint
- Ada Di Stefano, R&D Coordinator, Advanced Technology Solutions S.r.l.

### 3.11. Impact of COVID-19

As COVID-19 has heavily impacted on conferences / workshops that were either postponed or moved online, the dissemination calendar will be regularly updated given the actual situation.



## 4. Conclusions

This strategy document is prepared in order to plan the best communication, and dissemination routes for the CONDOR project results (e.g. through the project webpage, project dissemination materials, CONDOR events, participation in events, clustering activities, etc.). Additional new routes will be investigated and if found relevant they will be integrated into the communication and dissemination road map.

When disseminating the results of the CONDOR project, the following sentence will always be included: the acknowledgment of the EU funding: “This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101006839”.

## 5. Degree of progress

The deliverable is 100% fulfilled.

## 6. Dissemination level

The Deliverable 9.2 Project Dissemination and Communication Strategy document is public and will therefore be available to download on the project’s website.