

Deliverable D9.2

Communication and Dissemination Plan (C&DP) and periodic updates

Dissemination level: Public

Due date: 31/08/2021

Grant Agreement (GA) No. 101022432

Research and Innovation Actions (RIA) project

Granted by: Climate, Infrastructure and Environment Executive Agency (CINEA)



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No. 101022432 and the Government of Canada's New Frontiers in Research Fund (NFRF) and the Fonds de recherche du Québec (FRQ).





Document Control Sheet

Project			hetic Natural Gas and
	Biochar via Gasifi	cation of Biomass ar	nd Waste Feedstocks
Call/Topic	International coo	peration with Canada	a on advanced biofuels
·	and bioenergy		
Type of action	Research and Inr	novation Action (RIA))
Grant Agreement No	101022432		
Start date	01/06/2021	Duration	36 Months
Project Coordinator	VTT Technical Re	search Centre of Fin	land Ltd - VTT

Work Package No	WP9	Task No	Task 9.1
Due date (in months)	Month 3		
Actual submission	20/12/2021		
date	20/12/2021		

Lead Beneficiary	ETA-Florence Renewable Energies (ETA)	
Contributor(s)	VTT	
Dissemination level	Public	Х
	Confidential, only for members of the	
	consortium (including the Commission	
	services)	

Revision History

Versio	Date	Modification	Author(s)
n			
1.0	09.07.2021	Initial file	Stefano Capaccioli (ETA), Niccolò
			Mannari (ETA)
1.1	15.08.2021	Additions	Sanna Tuomi (VTT)
2.0	25.08.2021	Final file	Stefano Capaccioli (ETA), Niccolò
			Mannari (ETA)
2.1	27.08.2021	Final quality check	Sanna Tuomi (VTT)
2.2	20.12.2021	Disclaimer added, funding	Sanna Tuomi (VTT)
		acknowledgement sentence	
		updated	

Disclaimer

The content of this report reflects only the authors' view. The European Climate, Infrastructure and Environment Executive Agency (CINEA) and the European Commission are not responsible for any use that may be made of the information it contains.



Table of Content

1	Exe	ecutive summary	4
2	Int	roduction	5
	2.1	Objectives and definitions	5
	2.2	Target audience	6
	2.3	Key messages	8
3	Too	ols for dissemination and communication	10
	3.1	Visual identity and branding material	10
	3.2	Website and social media channels	11
	3.3	Digital newsletter	13
	3.4	Press releases	13
	3.5	Conferences and workshops	13
	3.6	Webinars and videos	14
	3.7	Publications	14
	3.8	Clustering activities	14
	3.9	Participation in the "Open Research Data Pilot in Horizon 2020"	15
4	Str	ategy for communication and dissemination activities	15
5	Coi	nclusions	19



1 Executive summary

FlexSNG (Flexible Production of Synthetic Natural Gas and Biochar via Gasification of Biomass and Waste Feedstocks) is an EU-Canada jointly funded project with a target of developing a gasification-based process for flexible production of pipeline-quality biomethane, high-value biochar and renewable heat from a wide variety of locally sourced, low-quality biomass residues and biogenic waste feedstocks. Through feedstock supply chain optimization and owing to the novel features of the gasification process, FlexSNG will allow to sensibly reduce both feedstock supply costs and the overall conversion costs. This way the project will attempt to tackle one of the most pressing challenges in the field of energy and environment for today's Europe, especially considering the agenda for the transition towards climate neutrality by 2050.

This report contains the FlexSNG Communication and Dissemination Plan (D9.2 – Communication & Dissemination Plan and periodic updates), which has been designed as a practical tool for efficiently implementing communication and dissemination activities to support the achievement of the project objectives through different platforms, ranging from social networks to online conferences and more. Regarding the exploitation of the FlexSNG project, the project coordinator VTT will provide three Exploitation Plans (M3, M18 and M36) where the expected outcomes of the project and the potential paths for exploitation will be presented.

FlexSNG is a project that brings together heterogeneous partners with different approaches to communication and dissemination and in order to achieve the best possible development of the project, coordination and collaboration among the partners is needed. In this sense, this Communication and Dissemination Plan represents an essential guide that provides a common framework for all the dissemination and communication activities of FlexSNG.



2 Introduction

The Communication and Dissemination Plan (C&DP) has been elaborated considering stakeholders' categories and needs, as well as partners' communication channels and tools. In this sense, it represents a supporting tool for the individual partners in maximizing the impact of their dissemination actions while providing the appropriate means to ensure efficient visibility of the activities and outputs of the project as a whole.

The active involvement of stakeholders and target groups is one among the key success factors of the FlexSNG project. This plan proposes a list of suitable dissemination tools and activities for engaging the target groups in the project. To that end, a multi-step and multi-channel dissemination strategy is proposed in order to maximize the impact of the dissemination, adjusting the materials and tools to the specific needs, interests and potential for involvement of the target audience.

The consortium considers this Plan as a living document, reflecting an open, ongoing dialogue with potential users and related networks during the project, with the aim of guaranteeing the very best outcome possible after the previewed 36 months, but also after the lifetime of FlexSNG. The C&DP will be updated twice during the project (M18 & M36).

The Communication and Dissemination Plan (deliverable D9.2) is also closely related to other WP9 deliverables, namely the "Project website established and social media launched" (deliverable D9.3), the "First e-newsletter and promotion leaflet" (deliverable D9.4), the "Report and a short dissemination video of the first ITW" (deliverable D9.6) and the "Report and a short dissemination video of the second ITW" (deliverable D9.7).

2.1 Objectives and definitions

The Communication and Dissemination Plan (C&DP) aims at defining an effective longterm strategy to pursue the following objectives:

- Raising awareness on the FlexSNG project and stimulating interest among all stakeholders.
- Disseminating the results of the project and transferring the knowledge generated by the project to relevant stakeholders.
- Facilitating the exploitation of the project's foreground.
- Ensuring the achievement of impact after the end of the project.

In the context of this document and the related activities, we consider the following definitions for communication, dissemination, and exploitation¹.

Communication means taking strategic and targeted measures to promote the project itself and its results to a multitude of audiences, including the media and the

_

¹ Official links: http://ec.europa.eu/research/participants/data/ref/h2020/other/events/2017-03-01/8 result-dissemination-exploitation.pdf



public and possibly engaging in a two-way exchange. The aim is to reach out to society as a whole and to some specific audiences while demonstrating how EU funding contributes to tackling societal challenges.

Dissemination is the public disclosure of the results of the project in any medium. It is an active process of promotion and awareness-raising that starts from the beginning of a project. It makes research results known to various stakeholder groups in a targeted way, to enable them to use the results in their own work. Dissemination helps to enable the transfer of knowledge and results to the ones that can best make use of it. It helps to maximize the impact of research, enabling the value of results to be potentially wider than the original focus and preventing the loss of results.

Exploitation is the use of the results during and after the project's implementation. It can be for commercial purposes but also for improving policies, and for tackling economic and societal problems.

Results are any tangible or intangible outputs of the action, such as data, knowledge, and information whatever their form or nature, whether they can be protected or not.

The Communication and Dissemination Plan represents an essential tool to guide the activities of the project consortium throughout the lifetime of the project and beyond. It is a living document that will be updated annually with the contribution of all partners. Two official updates will be provided to the Commission in M18 and M36.

The strategy for dissemination and communication is structured following these principles:

- Identifying the relevant target audience: whom does the project wants to speak to?
- Defining clear messages: what messages does the project want to convey to its audience? And why?
- Identifying means and tools: how and when will those messages be conveyed to the relevant audience?
- Defining a period plan of dissemination and communication activities.

The communication activities take place in the initial phase of FlexSNG and include developing the visual identity, the early-stage materials, and tools such as brochures, leaflets, rollups, and the initial website tools. These will provide a basis for the dissemination activities that will be developed afterwards and allow to raise awareness and interest in the project already at project start-up. Stefano Capaccioli as the nominated Dissemination Manager (DM) and ETA as WP9 Leader have the overall responsibility for coordinating the dissemination and communication activities of the project as well as keeping the dissemination/communication material up-to-date.

2.2 Target audience

The active involvement of all key stakeholders and target groups is one among the main success factors of the FlexSNG project and its successive industrial deployment



in the European and Canadian markets. The dissemination of the FlexSNG project and its results will take place at two levels:

- National level in the Member States where FlexSNG will carry out research, dissemination and promotional activities, namely Finland, Italy, Germany, Denmark, Sweden, Greece, as well as the United Kingdom and Canada.
- EU level outreaching the whole of the scientific, technology, bio-based industries communities, potential end-users and beneficiaries of the FlexSNG results and services. Outreach of these target groups will also take place through existing platforms (i.e. ETIP Bioenergy platform, EU Sustainable Energy Week EUSEW, etc.), stakeholders' events and by the networking with other related projects and initiatives (i.e. by IRENA, IEA, etc.) and/or decision makers.

In order to maximise the impact of FlexSNG results both during the project and beyond, all key stakeholder groups, including end consumers, policy makers and key influencers, need to be engaged. The target audience has been categorized into four groups according to their influence and interest in the project as follows (Figure 1):

- 1. Key players organizations that have both a high interest in FlexSNG solutions and a high level of influence on the project and follow-on demonstration. These players are engaged to build a relationship for use during and after the project. For example: decision makers within the participating industrial companies and members of the Industrial Advisory Board (IAB), energy and environmental authorities (local, national, EU), potential financial bodies for demo plants, technology and equipment providers, selected companies from heat, power and gas industry, chemical industries and companies with a clear policy towards renewable energy and/or fuels, feedstock providers from the agro-forestry sector and municipalities (wastes).
- 2. Defenders organizations that have a high interest in FlexSNG but lack high level of influence on the project or its follow-on industrial demonstration phase. These entities will be regularly informed to keep their interest active. For example: European Natural Gas Vehicle Association, engineering and consulting companies from different industrial sectors, representatives from the energy, material and agricultural sectors as potential users of biochar as well as selected representatives of the transport sector as potential users of bio-SNG (maritime and heavy-duty road transport).
- 3. Context setters organizations that have a high level of influence in the context of renewable energy and fuels, but a low interest in FlexSNG. Communication with this stakeholder group aims at increasing their interests towards the project by providing information on the potential benefits of FlexSNG. For example: Biogas and Bioenergy Associations, European Biofuels Technology Platform, Waste-to-Energy Research and Technology Council, and the scientific community.
- 4. Bystanders organizations that have low or no decisive role in the initial development or demonstration phase of the FlexSNG project, although they may become relevant at later stages of commercialisation. These entities will receive the lowest priority and intensity in communication. For example: cities and regions in Europe and North America, large multi-national industries in the area of oil



refining, forest energy and chemical industries and the Confederation of European Waste-to-Energy Plants "CEWEP".

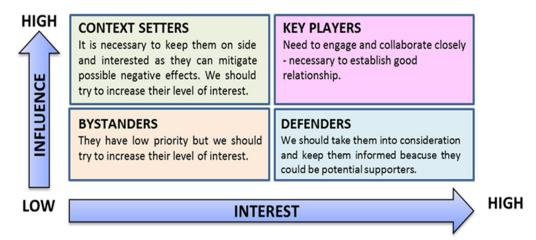


Figure 1. Target group categorisation.

The dissemination and communication actions in the project will be specifically tailored for each of these target groups (see Chapter 4).

The FlexSNG consortium will also coordinate and liaise with other relevant EU and Canadian networks and stakeholders at the policy level on the areas addressed by the project (Waste, Research & Innovation, Renewable Fuels and Bioenergy, and more), thus contributing to the further debate and scientific evidence allowing to scaling-up similar processes of energy (green energy carriers) production into the current and future policy agenda, specifically the Renewable fuels and Bioenergy strategies at EU level.

2.3 Key messages

The FlexSNG consortium has already defined some of the key messages that it wishes to convey to the scientific community, general public and key stakeholders. These messages form the base for the elaboration of all the dissemination and communication actions during the first year of the project. Further messages can be derived from this initial set, focusing on specific aspects pertaining to the different tasks and activities. Those messages will be complemented and updated regularly with a collaborative discussion involving all the partners. Updates will be provided at least once per year during the project annual meeting or more often if necessary.



Key messages:

- 1. FlexSNG introduces a novel gasification-based concept for flexible and costeffective production of biomethane, biochar and renewable heat.
- 2. The FlexSNG concept has the potential to reduce biomethane production costs by more than 30% compared to state-of-the-art biomass-to-SNG technologies.
- 3. FlexSNG aims at demonstrating 20% reduction in feedstock supply costs through optimization of the feedstock supply chain, which allows improving the competitiveness of advanced biofuels/bioenergy carriers against fossil fuel alternatives. Feedstock supply chain optimization is carried out using a combination of systems analysis approach and advanced modelling tools.
- 4. The key innovative technology of FlexSNG is the flexible gasification process that can reach >80% overall efficiency and switch between two operation modes according to market signals: 1) co-production of biomethane, biochar and heat, and 2) maximised production of biomethane and heat.
- 5. The FlexSNG process is economically viable already in medium scale (50-150 MW feedstock input), which facilitates the use of locally sourced biogenic residues and wastes.
- 6. The novel gasification process is truly feedstock-flexible being able to convert a wide variety of biomass residues and waste feedstocks into high-value intermediate bioenergy carriers and renewable heat. The process is specifically tailored for processing the more challenging, lower grade feedstocks that are currently poorly utilised.
- 7. The biochar produced by the FlexSNG process is an easily storable bioenergy carrier that has a wide range of potential end uses, such as in energy production or industrial processes as a substitute for fossil feedstocks or in material applications (activated carbon, soil amendment etc.).
- 8. The novel low-cost oxygen production technology based on oxygen transport membranes (OTMs) applied in the FlexSNG process allows reducing electricity consumption by 50% compared to the state-of-the-art cryogenic air separation technology and lowering oxygen production costs.
- 9. The coupling of the gasification process with VESTA methanation enables cost-effective biomethane production already in medium-scale (50-150 MWth), while state-of-the-art SNG technologies would require over 200 MW plant size, which is challenging from the biomass logistics point of view. Unlike its competitors, the VESTA catalytic methanation technology does not require gas recycling and is flexible towards syngas composition, which simplifies the overall gasification process and reduces the CAPEX of the plant.



3 Tools for dissemination and communication

The multiplicity of messages and the diversity of target audiences identified above require the utilization of a wide series of dissemination and communication tools in order to ensure that the right message is conveyed to the relevant target audience in the most effective way.

3.1 Visual identity and branding material

A visual identity and branding are a crucial part of the FlexSNG communication kit: it will help to clearly identify the project among others thanks to an iconic project logo set and graphics and an effective project website. The official font-family for all Word documents and PowerPoint presentations will be Dubai. The project logo has been confirmed and it is available in multiple high-resolution versions, according to the use partners wish to make or the graphic backgrounds where it is involved. The logo contains the following colours: yellow #E8C912, green #90BC2E, brown #9F7031. The official project logo is depicted in several variations in Figures 2 to 5.



Figure 2. Vertical logo.



Figure 3. Horizontal logo.



Figure 4. Pictogram.





Figure 5. Vector logo on dark background.

Other basic project dissemination materials include a project leaflet, an introductory slideshow presentation, an introductory poster and roll-up. These materials will be provided for all partners for distribution in events, workshops, and all available opportunities to raise awareness on the project.

3.2 Website and social media channels

A project website aims to raise awareness about the project's activities and results achieved. In the initial phase, the website includes static pages information about the project, the partners, the process involved, the foreseen impacts of the project and the public resources produced by the project. These will be gradually complemented by a news section in blog style, which will be updated regularly with more in-depth information about each step of the process, the project's recent activities or achievements, event announcements and other content provided by all partners. The website will be regularly updated throughout the project and every 6 months a general revision will be performed. The official FlexSNG website is https://www.flexsng.eu/. The website will be put online at the project outset by M4. Once published on the website, the contents are then promoted via social media channels (Twitter, LinkedIn and YouTube). Social media accounts have already been created for the FlexSNG project (Figures 6-8) and are available at the following addresses:

• Twitter: https://twitter.com/flexSNG

• LinkedIn: https://www.linkedIn.com/company/flexsng-project-h2020/

• YouTube: https://www.youtube.com/channel/UCJOP9mHxBq-ikCnuOq79uFq





Figure 6. Twitter page.

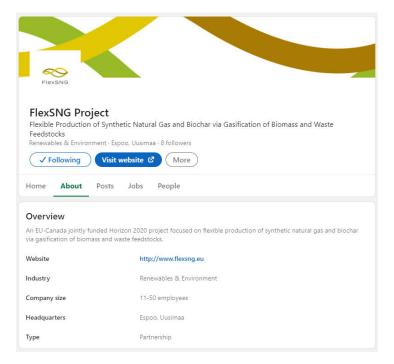


Figure 7. LinkedIn page.

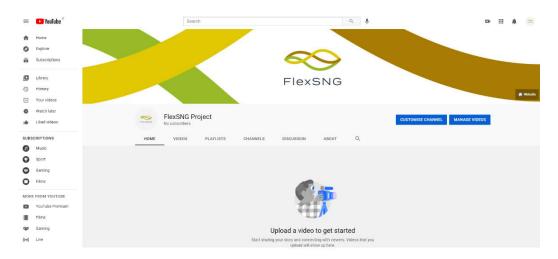


Figure 8. YouTube channel.



3.3 Digital newsletter

Throughout the duration of the project, e-newsletters will be prepared and distributed. Subscription to the newsletter will be voluntary via the website, and a mass mailing system software will be used for management and distribution of the digital newsletters, ensuring the accurate monitoring of the impact of the newsletters. The newsletter will also have its own menu on the official FlexSNG website.

Newsletters will act as a compilation of news, events and information published on the FlexSNG website that will be distributed to all voluntary subscribers. The content will be based upon posts on the website and the information provided by partners on events in which the project is presented. These include key updates on the project development, presentations and workshops, reports, publications, and media interest. Newsletters will be provided in English. In occasion of particular events, special editions (with sections in other languages) will be taken into consideration for national target groups.

Newsletters will be prepared every 4-6 months (2/3 per year), which will provide a consistent coverage of the activities implemented within the project. They will be mailed to the target audience identified in both Europe and Canada. All FlexSNG partners will be encouraged to forward the newsletter to their contacts who might be interested in the project.

3.4 Press releases

Similarly to the digital newsletter, press releases will have a relevant role in dissemination of project progress and results. The first press release of the project will be released on the project website and shared through all social media channels. Likewise, all future press releases will be included in the documents section on the project website.

3.5 Conferences and workshops

In order to engage with the international bioenergy community, a half-day event will be organised by ETA in occasion of the European Biomass Conference and Exhibition (EUBCE) around M18. Speakers will be FlexSNG partners and high-level experts to guarantee an inspiring round table on most insightful project aspects. In addition, partners will take part as speakers in leading events at national and international level, addressing different audiences. These include e.g. bioenergy/biofuel conferences, sustainability fairs, renewable energy events and EU-funded projects on the sector. Reports on such events will be integrated in the final version of this Communication and Dissemination Plan.

Two Industrial Topical Workshops (ITWs) will be organized during the project with focus on interacting with different stakeholders of the value chain and getting valuable feedback. The workshops will include presentations from project participants as well as from invited speakers representing industries, raw material supply chain, policy makers, environmental organisations and financing bodies. Technical visits will be organized whenever possible, e.g. to pilot and demo plants, industrial sites etc. The two workshops will be organised as follows:



- ITW1 will be hosted in Germany by M18 (organised by EIFER and ETA). The main topics will be key enabling technologies of FlexSNG and preliminary results of feedstock supply chain optimization and utilization options for biochar/biomethane.
- ITW2 will be hosted in Canada by M36 (organised by PM and ETA in the framework of the BIOFOR International Conference). The main topics will be FlexSNG concepts, including techno-economics, technical performance, case studies, and plans for follow-on demonstration.

The final conference (around M36) will be organised as a one-day event in Helsinki/Espoo to present the final project results, and to involve and mobilize relevant stakeholders (EU/Canadian decision makers, national governments, industry, scientific community, SMEs, citizens, NGOs and public media). The final conference will be conceived as a strategic comprehensive event, marking the breakthrough added value of the project at European and Canadian level and how these results can be further exploited at scientific and commercial level.

3.6 Webinars and videos

Starting from M12, ETA will organise a series of one-hour long webinars to deliver information about the activities and public preliminary results of the FlexSNG project. The webinars will be recorded and made available to the public on the FlexSNG dedicated YouTube channel. ETA will also create short videos about the topics of the project, such as activities, open challenges, results and more. Short interviews to partners will also be included and shared on all FlexSNG social media channels.

3.7 Publications

Articles will be prepared for publication in peer-reviewed technical and scientific journals as well as in market-oriented magazines. The FlexSNG project follows an open and active publication policy, and scientific publications will be made available as Open Access. The FlexSNG consortium anticipates publishing 10 to 15 peer-reviewed technical papers and 15 to 20 scientific papers over the course of the project. ETA will draft and at least one article per year to be published on generic magazines to disseminate the main activities and results of the project. The Dissemination Manager Stefano Capaccioli will maintain a list of publications issued by the participants.

3.8 Clustering activities

The consortium will actively seek links with other ongoing EU-funded projects and initiatives on similar topics to promote the project and its results through common dissemination activities as well as look for potential partners for follow-on initiatives where the FlexSNG concept could be brought to a higher TRL. The H2020 Biofuels workshops that are annually organised by CINEA provide an excellent opportunity to form such partnerships and potential collaborations. The FlexSNG representatives will take part in these workshops upon CINEA's invitation.



3.9 Participation in the "Open Research Data Pilot in Horizon 2020"

The FlexSNG project takes part in the Open Research Data Pilot in Horizon 2020 and will deposit all published research findings and other non-sensitive project data that has longer-term value also for other researchers to an open access research data repository.

4 Strategy for communication and dissemination activities

The communication and dissemination strategy provides a framework for maximising impact and to deploy the benefits of the FlexSNG project at scientific, market/commercial and social level. During the project, the consortium aims to reach key stakeholders, media and the public using tailored communication and dissemination tools, with the goal of paving the way for follow-on demonstration and industrial exploitation of FlexSNG technologies in the EU, Canada and export markets. The dissemination and communication strategy of the FlexSNG project (see Figure 9) is divided into two main categories of action:

- 1. Activities to create awareness around the project objectives and foreseen results throughout the project
- 2. Activities related to dissemination of specific research and marketable results

	INITIAL STAGE M3	MID-STAGE M18	FINAL STAGE M36
EXPLOITATION	✓ Consortium agreement ✓ Identification of stakeholders ✓ Initial Exploitation Plan	✓ Market potential ✓ Exploitable project results ✓ Interim Exploitation Plan	✓ Exploitation agreement ✓ LCA ✓ Plan for follow-on industrial exploitation ✓ Final Exploitation Plan
DISSEMINATION	✓ Project website ✓ Project branding ✓ Communication and Dissemination Plan (C&DP)	✓ Project website updates ✓ Communication material ✓ Press releases, scientific publications, conference presentations ✓ Workshops ✓ C&DP updated	✓ Project website update ✓ Final conference ✓ Communication material ✓ Conference presentations, scientific publications ✓ C&DP updated

Figure 9. Dissemination and communication activities during the course of the FlexSNG project.

At the beginning of the project, there will be mostly generic news and the communication will be focused on making all stakeholders aware of FlexSNG's aims and objectives, as well as its potential role in the future low- to zero-emission energy system. In this phase (from M1 to M7/M8), mostly generic communication measures will be deployed. These activities will include the development of the project's visual identity, production and distribution of branding material (logo, leaflets, slide presentations, posters, rollups etc.), website and social media presence, including website setup, online newsletters, initial content creation and establishment of social media channels (Twitter, LinkedIn, and YouTube) and related activities to generate



general awareness. These tools and activities will be maintained and used throughout the lifetime of the project.

As the project progresses and results become available, these actions will be gradually complemented by additional activities to support the dissemination of the project and to promote the future transfer of knowledge. The project consortium will, for example, organize two industrial workshops (one in Germany, one in Canada) and coordinate the one-day conference. Several partners will also participate in the European Biomass Conference and Exhibition (EUBCE) starting from the 2022 edition. Furthermore, we will launch measures to promote the results of FlexSNG beyond the project's end (e.g., scientific and technical publications, online and print project summary publications for target groups, project conference, project repository on website, etc.), allowing for a longer lifetime and wider impact of FlexSNG.

Starting from M9, the FlexSNG consortium will increasingly engage with the four target groups. By promoting the project and its results via multiple channels, the consortium will aim to reach these external stakeholders and change their perceived interest and attitude towards flexible production of bioenergy carriers and heat that is being addressed by the project. The audience will be approached with targeted information through videos, print dissemination material, presence in magazines, scientific publications, and conferences, webinars and dedicated workshops.

The dissemination and communication actions that will be undertaken in the project are defined in Table 1. A more detailed timeline for dissemination and communication activities per target group are shown in Table 2.

Table 1. Dissemination and communication activities to be undertaken in the FlexSNG project.

Target audience	Type of information	Timing	Means of communication
KEY PLAYERS	 Description of the FlexSNG concept, its benefits and key impacts Highlights of results and new technology developments Prospects for new business, market potential Considerations for legislation and regulations 	Key stakeholders will be identified at the beginning of the project, and communication will continue throughout the project on a regular basis.	 ACTIVITIES: Direct communication, personal contacts Specific events, webinars and Industrial Topical workshops (ITWs) Presentations in conferences and seminars; final conference MATERIAL: Distribution of leaflets, brochures, newsletters and press releases via e-mail and social media channels Website updates Workshop and final conference material shared to attendees through the FlexSNG website



DEFENDERS	 Description of FlexSNG concept and technologies, its benefits and key impacts on the environment and the energy and transport sectors Benefits gained by potential end-users when exploiting the FlexSNG technologies 	At the beginning, midway and end of the project.	ACTIVITIES: • Presentations in conferences and seminars • Industrial Topical workshops (ITWs), webinars, final conference MATERIAL: • Distribution of leaflets, brochures, newsletters and press releases via e-mail and social media channels • Website updates
CONTEXT SETTERS	FlexSNG concept and its benefitsHighlights of results	At the beginning, midway and end of the project.	ACTIVITIES: Presentations in conferences and seminars; final conference MATERIAL: Papers in technical, scientific, market-oriented and economic journals; website updates
BYSTANDERS	FlexSNG concept and its benefits Main results achieved by the end of the project	At the beginning and end of the project.	ACTIVITIES: • Presentations in conferences and seminars; final conference MATERIAL: • Website updates
Related projects	Highlights of results, key impacts	When requested	ACTIVITIES: • Project-specific discussions • Conferences MATERIAL: • Tailored presentations
General public	Practical outcome of the project in a non-technical language	The results will be evaluated for their interest to the general public and communicated when relevant.	ACTIVITIES: • News coverage • Communication in social media MATERIAL: • Website, webinar, videos, press releases, publications, material for social media



Table 2. Communication and dissemination timeline per stakeholder group.

I all yet oll oup	STOCK (INCINITION ACTIVITION ACTIVITION		V	Ve ar 1						>	Vear 2				H				Vear	۲.			
		c	-	٠,	ď	7		7		1	7	5		C	Č	2	7		5	7	c		
		2 3 4	٥ ۵	4	٨	= 0	12 13	4	0 0	=	18 19	70	77 77	23	74 72	7ρ	17	67 97	30	31 32	33	34 3	35 SD
Key Players																							
	Personal contacts and direct communication		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Specific events, webinars				×	×	×		×		×	×	×		×)	×	×		×	×	$\hat{}$	×
	Industrial Topical Workshops						\vdash			(×												×
	Presentations in conferences (EUBCE, etc.) and seminars					×	×	×	X		×		×	×	×)	×	×		×	×	$\hat{}$	×
	Final 1-day Conference					H	Н	Ц							Н					Н		H	×
	Distribution of leaflets, brochures, press releases		X	×	×	×	×	×	X	'Χ	×	X	×	×	×	X	×	×	Χ	X	×	×	×
	Website and social media activities	X X X	X	×	×	×	×	×	×	X	×	×	×	×	×	X	×	×	×	×	×	×	×
	Newsletters						×				×				×				×				×
Defenders																							
	Presentations in conferences (EUBCE, etc.) and seminars					×	×	×	×		×		×	×	×)	×	×		×	×	$\hat{}$	×
	Webinars				×	×	×		×	(×	×	×		×)	×	×		×	×	_	×
	Industrial Topical Workshops										×												×
	Final 1-day Conference																						×
	Distribution of leaflets, brochures, press releases		X	×	×	×	×	×	X	X	×	X	×	×	×	X	×	×	Χ	X	×	×	×
	Website and social media activities		X	×	×	×	×	×	×	X	×	×	×	×	×	X	×	×	×	×	×	×	×
	Newsletters						×			$\hat{}$	×				×				×				×
Context setters	rs																						
	Presentations in conferences (EUBCE, etc.) and seminars					×	×	×	×		×		×	×	×		×	×		×	×	^	×
	Final 1-day Conference						Н																×
	Papers in technical, scientific, market-oriented and economic journals					×	H	×		$\widehat{}$	×		×		×		×		×		×		×
	Website		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	<u>~</u>	×
Bystanders							H																
	Presentations in conferences (EUBCE, etc.) and seminars					×														×	×	^	×
	Final 1-day Conference																						×
	Website		×	×	×	×	-													×	×	×	×
Related projects	cts						-																
	All activities and materials will be done when requested																						
General public																							
	All activities and materials will be done when relevant					\exists	\dashv																



5 Conclusions

The overall FlexSNG Communication and Dissemination Plan (C&DP) strategy highlights the main activities that will be carried out during the three years of the project. These activities will be tailored to match the target stakeholder group from the four that have been identified: key players, defenders, context setters and bystanders. In addition to these four groups, related projects and the general public will also be informed of the results and key impacts of FlexSNG.

During the period that goes from M1 to M8, the priority is to raise awareness about the project's activities. Under this aim, the most relevant activities involve the development of the visual identity, which concerns the elaboration of the project logo, leaflets, slideshow presentations, posters and roll ups. Moreover, the promotion through the website and the social media channels, which will be constantly updated, represents a useful way to achieve this first scope.

Starting from M9, many additional measures will be gradually implemented to support the project dissemination, exploitation and knowledge sharing, mainly throughout the organization of workshops, webinars, seminars and conferences. As the project progresses and results become available, the consortium will promote the FlexSNG's impacts and key highlights through scientific and technical publications, online and print project summary publications for target groups, project conferences, project repository on website, and more. The dissemination and communication strategy will be subject to updates during the lifetime of the project in accordance with the emerging needs and the feedback received from partners and stakeholders.