

## A Project overview

### A.1 Project identification

Title

Unifying policies to support the uptake of green hydrogen to decarbonize Europe.

80/110

Acronym

UNIFHY

6/18

Project ID

02C0503

Name of the lead partner organisation

LP01 Consortium Extremadura Energy Agency

Policy objective

Greener Europe (policy objective 2)

Specific objective

Renewable energy

Project duration

	Duration	Start date	End date
Core phase	36 months	01 April 2024	31 March 2027
Follow-up phase	12 months	01 April 2027	31 March 2028
Closure phase	3 months	01 April 2028	30 June 2028

Is this application a resubmission of a proposal that was not approved under an earlier call?

No

## A.2 Project summary

Please give a short overview of the project (in the style of a press release) focusing in particular on the issue addressed, the partnership and the overall objective. Please note that, should the project be approved, this summary will be published on the programme's website. (In English language)

In the EU Member States and their regions, there are different paces on the way to achieve climate neutrality; some of them are setting more ambitious targets and dates to reach it, while others are lagging to meet the intermediate targets established. For those regions that are in a favourable position, it is important to continue advancing in the more complex aspects of the energy transition, such as the transition of the gas sector to the use of renewable and low-carbon gases.

Although the share of renewable energy is increasing rapidly at EU level, the carbon dioxide emissions worldwide are still increasing. This means that all countries must also increase their efforts to decarbonize the energy sector, and the main challenge is to reduce fossil fuels in the end-use sectors, particularly in industry and transport.

Additionally, there are other challenges that must be overcome to decarbonize the energy sector, such as security of energy supply, environmental sustainability, and socio-economic aspects. To ensure a secure and stable energy supply, it is not enough to deploy new renewable power (wind, solar) if it cannot be stored to be used when demanded.

The set of proposals included in the Fit for 55 package provides a coherent and balanced framework for reaching the EU's climate objectives and it specifically includes shifting from gas to renewable and low-carbon gases, including hydrogen, and proposing a review of the EU gas market design. And in 2020, the European Commission proposed a hydrogen strategy for a climate-neutral Europe, aiming to accelerate the development of clean hydrogen as a cornerstone for a climate-neutral energy system.

UNIFHY will analyse policies and provide insights for policy-makers in 6 EU regions: Aalborg Municipality (DK) and the Southern Sweden region (SE) in the North; Moravian-Silesian Region (CZ) and Lubelskie Region (PL) in the East; the South East region of Ireland (IE) in the West; and Extremadura (ES) in the South.

## B Partners / associated policy authorities

[v2 | Open](#)

### Overview partners

Partner number		1			
Organisation		Consortium Extremadura Energy Agency			
Role		Lead Partner			
Country		Spain (España)			
Geographical area		South			
ERDF/Norwegian	250,200.00	<b>Total partner contribution</b>	62,550.00	<b>Total partner budget</b>	312,750.00
Partner number		2			
Organisation		Aalborg Municipality			
Role		Partner			
Country		Denmark (Danmark)			
Geographical area		North			
ERDF/Norwegian	242,000.00	<b>Total partner contribution</b>	60,500.00	<b>Total partner budget</b>	302,500.00
Partner number		3			
Organisation		Energy Agency Southern Sweden			
Role		Partner			
Country		Sweden (Sverige)			
Geographical area		North			
ERDF/Norwegian	180,600.00	<b>Total partner contribution</b>	45,150.00	<b>Total partner budget</b>	225,750.00
Partner number		4			
Organisation		Moravian-Silesian Region			

Role		Partner			
Country		Czech Republic (Česko)			
Geographical area		East			
ERDF/Norwegian	154,222.40	<b>Total partner contribution</b>	38,555.60	<b>Total partner budget</b>	192,778.00

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Partner number		5			
Organisation		South East Energy Agency			
Role		Partner			
Country		Ireland (Éire/Ireland)			
Geographical area		West			
ERDF/Norwegian	193,830.00	<b>Total partner contribution</b>	83,070.00	<b>Total partner budget</b>	276,900.00

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Partner number		6			
Organisation		Lubelskie Voivodeship			
Role		Partner			
Country		Poland (Polska)			
Geographical area		East			
ERDF/Norwegian	131,480.00	<b>Total partner contribution</b>	32,870.00	<b>Total partner budget</b>	164,350.00

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Partner number					
Organisation					
Role					
Country					
Geographical area					

ERDF/Norwegian

1,152,332.40

Total partner  
contribution

322,695.60

Total partner budget

1,475,02

v2 | Open

## Overview associated policy authorities

**Organisation** Directorate General for Industry, Energy and Mines -  
Regional Government of Extremadura

**Country** Spain (España)

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**Organisation** Region Kalmar County

**Country** Sweden (Sverige)

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**Organisation** Waterford City and County Council

**Country** Ireland (Éire/Ireland)

## B.1.1 Organisation identity

v2 | Open

Country

Spain (España)

Organisation

Consortium Extremadura Energy Agency

Organisation role

Lead Partner

Joined project on

01 Apr 2024

Is partner of project until

30 Jun 2028

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Partner financed through the Investment for Jobs and Growth programme (article 22(3) (d) (vi) of Regulation (EU) No 2021/1060)

Please select 'Yes' if the participation of the partner is financed directly by their regional operational programme and not through Interreg Europe (see programme manual for further information).

No

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15% flat rate for 'Travel and accommodation'

By unticking the box above this partner will have to budget and report costs under Travel and accommodation on a real costs basis.



Name in English

Consortium Extremadura Energy Agency

v2 | Open

36/200

Name in original language

Consortio Agencia Extremeña de la energía (AGENEX)

50/200

 I want to change the partner name

Address

Avda Antonio Masa Campos 26

27/200

Postal code

6011

4/200

City

Badajoz

7/200

Country

Spain  
(España)



Nuts 1

Centro (ES)

Nuts 2

Extremadura

Nuts 3

Badajoz

If you consider the **country or Nuts regions** of this organisation wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

VAT number (or other identifier)

S0600436J

9/200

Website

http://www.agenex.net

21/200



Legal status

Public body or body governed by public law

v2 | Open

If you consider the legal status of this organisation is wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

Type of partner

Agency

Co-financing rate (%)

80%

### Department details if different from parent organisation

The department information only applies to the partner in this project.

Department name

0/200

Address

0/200

Postal code

0/200

City

0/200

## B.2.1 Organisation identity

v2 | Open

Country

Denmark (Danmark)

Organisation

Aalborg Municipality

Organisation role

Partner

Joined project on

01 Apr 2024

Is partner of project until

30 Jun 2028

---

Partner financed through the Investment for Jobs and Growth programme (article 22(3) (d) (vi) of Regulation (EU) No 2021/1060)

Please select 'Yes' if the participation of the partner is financed directly by their regional operational programme and not through Interreg Europe (see programme manual for further information).

No

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15% flat rate for 'Travel and accommodation'

By unticking the box above this partner will have to budget and report costs under Travel and accommodation on a real costs basis.



Name in English

Aalborg Municipality

20/200

v2 | Open

Name in original language

Aalborg Kommune

15/200

 I want to change the partner name

Address

Boulevarden 13

14/200

Postal code

9000

4/200

City

Aalborg

7/200

Country

Denmark  
(Danmark)



Nuts 1

Danmark

Nuts 2

Nordjylland

Nuts 3

Nordjylland

If you consider the **country or Nuts regions** of this organisation wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

VAT number (or other identifier)

29189420

8/200

Website

<https://www.aalborg.dk/>

23/200

Legal status

Public body or body governed by public law

v2 | Open

If you consider the legal status of this organisation is wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

Type of partner

Local public authority

Co-financing rate (%)

80%

### Department details if different from parent organisation

The department information only applies to the partner in this project.

Department name

0/200

Address

0/200

Postal code

0/200

City

0/200

### B.3.1 Organisation identity

v2 | Open

Country

Sweden (Sverige)

Organisation

Energy Agency Southern Sweden

Organisation role

Partner

Joined project on

01 Apr 2024

Is partner of project until

30 Jun 2028

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Partner financed through the Investment for Jobs and Growth programme (article 22(3) (d) (vi) of Regulation (EU) No 2021/1060)

Please select 'Yes' if the participation of the partner is financed directly by their regional operational programme and not through Interreg Europe (see programme manual for further information).

No

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15% flat rate for 'Travel and accommodation'

By unticking the box above this partner will have to budget and report costs under Travel and accommodation on a real costs basis.



Name in English

Energy Agency Southern Sweden

v2 | Open

29/200

Name in original language

Energikontor Syd

16/200

 I want to change the partner name

Address

Smedjegatan 37

14/200

Postal code

35196

5/200

City

Växjö

5/200

Country

Sweden  
(Sverige)



Nuts 1

Södra Sverige

Nuts 2

Sydsverige

Nuts 3

Blekinge län

If you consider the **country or Nuts regions** of this organisation wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

VAT number (or other identifier)

SE556713011601

14/200

Website

<https://energikontorsydost.se/>

30/200



Legal status

Public body or body governed by public law

v2 | Open

If you consider the legal status of this organisation is wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

Type of partner

Agency

Co-financing rate (%)

80%

### Department details if different from parent organisation

The department information only applies to the partner in this project.

Department name

0/200

Address

0/200

Postal code

0/200

City

0/200

## B.4.1 Organisation identity

v2 | Open

Country

Czech Republic (Česko)

Organisation

Moravian-Silesian Region

Organisation role

Partner

Joined project on

01 Apr 2024

Is partner of project until

30 Jun 2028

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Partner financed through the Investment for Jobs and Growth programme (article 22(3) (d) (vi) of Regulation (EU) No 2021/1060)

Please select 'Yes' if the participation of the partner is financed directly by their regional operational programme and not through Interreg Europe (see programme manual for further information).

No

---

15% flat rate for 'Travel and accommodation'

By unticking the box above this partner will have to budget and report costs under Travel and accommodation on a real costs basis.

## Organisation details

v2 | Open

Name in English


Moravian-Silesian Region

24/200

Name in original language

Moravskoslezský kraj

20/200

 I want to change the partner name

Address

28. října 117

13/200

Postal code

702 18

6/200

City

Ostrava

7/200

Country

Czech  
Republic  
(Česko)

Nuts 1

Česko

Nuts 2

Moravskoslezsko

Nuts 3

Moravskoslezský kraj

If you consider the **country or Nuts regions** of this organisation wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

VAT number (or other identifier)

70890692

8/200

Website

<https://www.msk.cz/>

## Legal status

If you consider the legal status of this organisation is wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

## Type of partner

## Co-financing rate (%)

**Department details if different from parent organisation**

The department information only applies to the partner in this project.

## Department name

0/200

## Address

0/200

## Postal code

0/200

## City

0/200

## B.5.1 Organisation identity

v2 | Open

Country

Ireland (Éire/Ireland)

Organisation

South East Energy Agency

Organisation role

Partner

Joined project on

01 Apr 2024

Is partner of project until

30 Jun 2028

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Partner financed through the Investment for Jobs and Growth programme (article 22(3) (d) (vi) of Regulation (EU) No 2021/1060)

Please select 'Yes' if the participation of the partner is financed directly by their regional operational programme and not through Interreg Europe (see programme manual for further information).

No

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15% flat rate for 'Travel and accommodation'

By unticking the box above this partner will have to budget and report costs under Travel and accommodation on a real costs basis.



Name in English

South East Energy Agency

v2 | Open

24/200

Name in original language

South East Energy Agency

24/200

 I want to change the partner name

Address

St Kieran's College Burrell's Hall

34/200

Postal code

R95 TP64

8/200

City

Kilkenny

8/200

Country

Ireland  
(Éire/Ireland)



Nuts 1

Ireland

Nuts 2

Southern

Nuts 3

South-East

If you consider the **country or Nuts regions** of this organisation wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

VAT number (or other identifier)

IE 63762701

11/200

Website

<https://southeastenergy.ie/>

27/200

Legal status

Body governed by private law (only non-profit)

v2 | Open

If you consider the legal status of this organisation is wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

Type of partner

Agency

Co-financing rate (%)

70%

### Department details if different from parent organisation

The department information only applies to the partner in this project.

Department name

0/200

Address

0/200

Postal code

0/200

City

0/200



## B.6.1 Organisation identity

v2 | Open

Country

Poland (Polska)

Organisation

Lubelskie Voivodeship

Organisation role

Partner

Joined project on

01 Apr 2024

Is partner of project until

30 Jun 2028

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Partner financed through the Investment for Jobs and Growth programme (article 22(3) (d) (vi) of Regulation (EU) No 2021/1060)

Please select 'Yes' if the participation of the partner is financed directly by their regional operational programme and not through Interreg Europe (see programme manual for further information).

No

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15% flat rate for 'Travel and accommodation'

By unticking the box above this partner will have to budget and report costs under Travel and accommodation on a real costs basis.



Name in English

Lubelskie Voivodeship

21/200

v2 | Open

Name in original language

Województwo Lubelskie

21/200

 I want to change the partner name

Address

Artura Grottgera 4

18/200

Postal code

20-029

6/200

City

Lublin

6/200

Country

Poland  
(Polska)

Nuts 1

Makroregion wschodni

Nuts 2

Lubelskie

Nuts 3

Lubelski

If you consider the **country or Nuts regions** of this organisation wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

VAT number (or other identifier)

7122410470

10/200

Website

<https://www.lubelskie.pl/>

25/200

Legal status

Public body or body governed by public law

v2 | Open

If you consider the legal status of this organisation is wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

Type of partner

Regional public authority

Co-financing rate (%)

80%

### Department details if different from parent organisation

The department information only applies to the partner in this project.

Department name

0/200

Address

0/200

Postal code

0/200

City

0/200

## B.i.1 Organisation identity

v2 | Open

Country

Spain (España)

Organisation

Directorate General for Industry, Energy and Mines - Regional Government of Extremadura

Organisation role

Associated Policy Authority

Joined project on

01 Apr 2024

Is partner of project until

30 Jun 2028



Name in English

Directorate General for Industry, Energy and Mines - Regional Government of Extremadura

v2 | Open

87/200

Name in original language

Dirección General de Industria, Energía y Minas de la Junta de Extremadura

74/200

 I want to change the partner name

Address

Paseo de Roma S/N

17/200

Postal code

06800

5/200

City

Mérida

6/200

Country

Spain  
(España)



Nuts 1

Centro (ES)

Nuts 2

Extremadura

Nuts 3

Badajoz

If you consider the **country or Nuts regions** of this organisation wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

VAT number (or other identifier)

S0611001I

9/200

Website

http://juntaex.es

17/200

Legal status

Public body or body governed by public law

v2 | Open

If you consider the legal status of this organisation is wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

Type of partner

Regional public authority

### Department details if different from parent organisation

The department information only applies to the partner in this project.

Department name

0/200

Address

0/200

Postal code

0/200

City

0/200



## B.ii.1 Organisation identity

v2 | Open

Country

Sweden (Sverige)

Organisation

Region Kalmar County

Organisation role

Associated Policy Authority

Joined project on

01 Apr 2024

Is partner of project until

30 Jun 2028



Name in English

Region Kalmar County

20/200

v2 | Open

Name in original language

Region Kalmar län

17/200

 I want to change the partner name

Address

Strömgatan 13

13/200

Postal code

39126

5/200

City

Kalmar

6/200

Country

Sweden  
(Sverige)



Nuts 1

Södra Sverige

Nuts 2

Småland med öarna

Nuts 3

Kalmar län

If you consider the **country or Nuts regions** of this organisation wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

VAT number (or other identifier)

SE232100-007301

15/200

Website

<https://utveckling.regionkalmar.se/>

35/200

Legal status

Public body or body governed by public law

v2 | Open

If you consider the legal status of this organisation is wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

Type of partner

Regional public authority

### Department details if different from parent organisation

The department information only applies to the partner in this project.

Department name

0/200

Address

0/200

Postal code

0/200

City

0/200

### B.iii.1 Organisation identity

v2 | Open

Country

Ireland (Éire/Ireland)

Organisation

Waterford City and County Council

Organisation role

Associated Policy Authority

Joined project on

01 Apr 2024

Is partner of project until

30 Jun 2028



Name in English

Waterford City and County Council

v2 | Open

33/200

Name in original language

Comhairle Cathrach agus Contae Phort Láirge

43/200

 I want to change the partner name

Address

City Hall, The Mall

19/200

Postal code

X91 XH42

8/200

City

Waterford

9/200

Country

Ireland  
(Éire/Ireland)

Nuts 1

Ireland

Nuts 2

Southern

Nuts 3

South-East

If you consider the **country or Nuts regions** of this organisation wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

VAT number (or other identifier)

3263046AH

9/200

Website

<https://www.waterfordcouncil.ie/>

32/200

Legal status

Public body or body governed by public law

v2 | Open

If you consider the legal status of this organisation is wrong, please contact [info@interregeurope.eu](mailto:info@interregeurope.eu).

Type of partner

Local public authority

### Department details if different from parent organisation

The department information only applies to the partner in this project.

Department name

0/200

Address

0/200

Postal code

0/200

City

0/200



## C.1 Issue addressed

What is the common regional development issue addressed by the project? Please make sure this information is coherent with the programme specific objective you selected in section A and with the description of the policy instruments in section D.

The EU and its MSs have committed to cut carbon emissions to zero by 2050 under the EU Green Deal. While renewables and electrification combined with EE will highly contribute, there are sectors that will need a different approach such as transport or industry; one of the most promising solutions is the use of green hydrogen due to its high energy density and potential to be a clean energy carrier.

Hydrogen can be stored and transported, balancing out intermittent renewables and enabling grid flexibility to contribute to full system sustainability. Considering the power price variations, the opportunity is to produce green hydrogen with excess renewable energy, instead of using the former 24/7 approach.

Among the barriers for its development are availability and cost of renewable electricity, low end-users demand and limited infrastructure for its distribution and storage. While the first can be overcome, the second two require political intervention and measures at all levels.

994/1000

Why is this issue important for European regions? Please be as specific as possible (data and statistics are welcome if possible).

The good practices identified by Interreg Europe Policy Brief in 2023 on “Regional Policies for promoting Green Hydrogen” show that it is often renewable energy regions with substantial wind energy capacity and generation that recognise the potential of hydrogen to contribute to regional development first. Regions with large-scale renewable generation often suffer from public rejection as power plants are mostly owned by few (foreign) investors with little regional value retention. Developing a regional hydrogen economy for the benefit of local companies represents an opportunity to create value locally, thus increasing acceptance of wind and solar power.

As well as these regions with a high energy production, there is a second group of regions with important industry and business clusters that see hydrogen as the only viable solution to decarbonize these sites, or that just want to make use of their strong industrial base as comparative advantage.

964/1000

How does the project contribute to the EU Cohesion policy? Does it also contribute to other European strategies or policies?

UNIFHY contributes to the EU strategy to strengthen economic, social and territorial cohesion in EU regions. The partnership will ensure the transfer of knowledge between more and less advanced regions in the green transition.

Hydrogen's potential has been recognised by EU governments and institutions for many years, being included in research and innovation funding since the 1990s and institutionalised with the Fuel Cells and Hydrogen Joint Undertaking in 2008.

At strategic level, the EC launched its 'Hydrogen Strategy for a Climate Neutral Europe' in 2020 to accelerate the development of EU's hydrogen economy. It was integrated into key policy areas: the Sustainable and Smart Mobility Strategy; the Renewable Energy Directive to reach 40GW of electrolyzers and 50% share of renewable hydrogen consumed in industry.

On the distribution side the EC published its Hydrogen and Decarbonised Gas Market Package to shift from natural gas to low-carbon gas (biomethane and hydrogen).

992/1000

## C.2 Project's overall objective

The project's overall objective is to improve the implementation of regional development policies in the field of Greener Europe (policy objective 2), in particular to improve the policy instruments described in section D of the present application.

Please further describe the project's overall objective below.

v2 | Open

If we measure how green is a region by the amount of renewable power installed and how much green energy is generated, most of the EU regions are making quick progress. Once this target is being addressed, there has also been an important focus on reducing the energy consumed and efforts to improve the energy performance of systems, transport and buildings. But considering all these efforts to become greener, we may wonder how is it possible that GHG emissions are still increasing.

The answer may lie in that there are some sectors in which the energy demand can not be reduced, and electrification through green generation is not an option, and this is where UNIFHY project will focus. Each region must identify where these needs are located and analyse what the policies are, if any, to support these areas in their decarbonization. Additionally, there is a need of strategies that optimize the energy production, such as the use of excess renewable energy for hydrogen generation.

989/1000

### C.3 Project innovative character

Please explain the innovative character of the project and of its expected results, in particular in comparison to similar initiatives/projects you are aware of.

Hydrogen, as an emerging policy topic, has not been a mainstream theme in many Interreg Europe projects of the period 2014-2020, but it is present in a select few; particularly, in the sustainable mobility focused projects, for instance, SMART-HY-AWARE. Other projects such as POTenT or DeCarb, address the key challenges for European cities and regions to achieve carbon emissions reduction.

UNIFHY will build on some of these learnings, as the Hydrogen Network GP in Ostrava, but it is innovative because it will support the phase out of fossil fuels in hard-to-electrify industrial sectors, including but not only transport, and it will develop great opportunities for regions with a high renewable generation but with a low materialization of job opportunities. Renewable and low-carbon gases are key to decarbonize the economy, store excess energy, provide backup to the system and preserve EU's industrial competitiveness; and for that there is a need for policy improvements.

983/1000

For projects deriving from past Interreg experiences (follow-up projects), please clarify the added-value of this cooperation compared to the previous experience.

IT IS NOT A FOLLOW-UP PROJECT

29/1000

### C.4 Project approach

Please describe the approach/methodology adopted to achieve the project's objectives within the core phase.

- How is the learning process organised at regional and interregional levels? If applicable, please describe the different steps you envisage to reach the project's objective.
- What is the purpose of the different types of activities proposed? In particular, how do they contribute to individual and/or organisational learning? How are these activities interrelated?
- How do you ensure the involvement of stakeholders in the learning process?

UNIFHY will follow an INTEGRATED APPROACH, with QUALITY learning activities that assure the different LEVELS OF LEARNING (regional, interregional, individual, organisational) to reach project results

The INTEGRATED APPROACH is based on traditional learning activities, such as workshops, thematic conferences and study visits, including some more innovative tools such as joint analyses or staff exchange; it is split into 3 main steps, all of them linked to follow a logical path toward the policy improvements:

#### (STEP 1) JOINT THEMATIC STUDIES & ANALYSES

Analysis of partners' situation and identification of valuable experiences.

With this first step, each partner will analyse the situation in their region, and identify which valuable practices could be transferred to other regions. At this step, the main process of learning will be envisaged at individual and organizational levels.

The GOOD PRACTICES identification and analysis (S1-S2) and the REGIONAL SELF-ASSESSMENT (S3-S4) will be the main activities to define the regional context. A JOINT SoA (fed from the conclusions of the RSA) will be elaborated to establish the UNIFHY context for policy improvements.

#### (STEP 2) INTERREGIONAL/LOCAL LEARNING & CAPACITY BUILDING

Experiences are further analyzed through exchange activities.

\*Interregional Level. Once each partner has identified their potential and weaknesses within the UNIFHY project, this knowledge will be fed and enlarged through the activities developed at the interregional level with other regions:

##### - INTERREGIONAL EVENTS

One IE will be organized every semester (S1-S6) to share experiences among regions. The interregional meeting will have a wide variety of activities (thematic conferences, site visits, GP presentations, workshops, etc) that will enable the exchange of experiences. 2 staff (1PC+2-3 staff rotating) + 2 stakeholders (rotating) will participate in each Interregional Event to gather interregional learning.

##### - STAFF EXCHANGE

If needed, this activity will take place during semesters 5 and 6, and will help partners explore those GPs that are more relevant for their region, providing a detailed visit and information exchange.

All levels of learning will be achieved, including interregional.

\*Local & organizational Level. The interregional learning will be transferred into the region through the following activities:

##### - LOCAL STAKEHOLDER MEETINGS

Organized at local and regional levels with the aim of sharing the project progress at the regional level with stakeholders.

Stakeholders learning will be ensured thanks to the transfer of interregional knowledge to the local level.

##### - POLICY BREAKFASTS

Work meetings at the local/regional level with the involvement of the associated policy authority when needed by the partners.

Individual, organizational and stakeholder learning will be ensured in these meetings.

##### - INSTITUTIONAL MEETINGS

Meetings to transfer the knowledge acquired during the different activities to other colleagues. In case the same institution is carrying out more than one Interreg Europe project they can exchange experiences in this regard.

Individual and organisational learning will develop from these meetings.

#### (STEP 3) POLICY IMPROVEMENTS & MONITORING

Preparation for the transfer of practice into policy instruments.

S5&6 will concentrate on their activities on the transfer of interregional knowledge with the objective of influencing the PI addressed.

First, a JOINT LEARNING REPORT will be drafted, linking lessons learned with policy improvements already achieved or planned to be achieved.

Then, partners that have not achieved their policy change by the end of the core phase will prepare an ACTION PLAN to implement during the follow-up phase.

The consortium will define a MONITORING METHODOLOGY.

The project will establish the ROBUST QUALITY UNIT (RQU), composed by LP and task leaders, to ensure that activities are properly prepared, implemented, documented and monitored.

Please explain the approach/methodology envisaged for the **follow-up phase** (i.e. last year of the project)? To what extent are the stakeholders expected to be involved in the follow-up phase?

v2 | Open

The principles described for the core phase will remain for the follow-up phase, assuring the LEARNING, QUALITY and INTEGRATED APPROACH.

Follow-up activities will focus on the implementation and monitoring of the policy improvements, through the methodology completed by the consortium in S6. This tool allows partners to record updates on their actions/measures and to report improvements to LP.

An online INTERREGIONAL EVENT is planned in S7 focused on the improvements of the PIs, the territorial impact and the learnings achieved.

S8 will focus on monitoring and reporting policy improvements and the FINAL CONFERENCE to disseminate the results among project partners, stakeholders and the IR-E community.

The engagement of STAKEHOLDERS will be ensured through their involvement in the policy improvements implementation, informal meetings and calls. One POLICY BREAKFAST/LSM is planned for this phase. They will also be invited to attend the interregional workshop and the Final Conference.

1000/1000

## C.5 Project indicators

### Output indicators

Code	RC087
Title	N° of organisations cooperating across borders
Target	58
Code	RC084
Title	N° of pilot actions developed jointly and implemented in projects
Target	0
Code	OI4
Title	N° of policy instruments addressed
Target	6
Code	OI5
Title	N° of interregional policy learning events organised
Target	8

Code	O16
Title	N° of good practices identified
Target	6

### Result indicators

Code	RII2
Title	N° of organisations with increased capacity due to their participation in project activities
	<input type="text" value="47"/>
Performance (%)	81

Code	RI3
Title	N° of policy instruments improved thanks to the project
	<input type="text" value="6"/>
Performance (%)	100

## C.6 Communication strategy

Please indicate the overall objectives of the project's communication strategy.

UNIFHY communication strategy will help deliver the project's objectives. The overall communication objectives are:

- Engaging all public and private stakeholders in the regional hydrogen value chain.
- Ensuring throughout the project lifetime the cooperation between partners and stakeholders, to better understand green hydrogen challenges and opportunities, sharing the learning outcomes and project results.
- Raising awareness among citizens through the dissemination of project developments.

498/500

Please describe the target groups of your communication strategy.

The target group includes all partners' organizations, the involved associated policy authorities and their stakeholders at the immediate level; managing authorities at local, regional and even national levels; and energy agencies and associations.

At a further level, it will also include municipalities, the general public, citizen associations, energy companies, industry, cooperatives, higher education and research institutions, business centres, EU networks and media.

476/500

Please explain the main communication tools and channels (including social media outreach) that will be used.

v2 | Open

The project WEBSITE will be the core tool for communication; it will be updated to make it appealing to its audience including the progress of project activities.

These updates will be transferred to project SOCIAL MEDIA accounts and to each partner organisation website.

Other key tools will be newsletters, roll-up, VIDEOS (1 project presentation + 1 project results) and other printing material.

Partners will also participate in the PLP events to share project experiences and achievements.

500/500

Please describe briefly how the communication strategy will be implemented and evaluated.

The communication strategy, delivered by PP02 (comms manager), will include a number of indicators (no. of participants at events, subscribers to newsletters, website sessions and SM followers) that will help implement it and evaluate its success and performance, allowing adjustments if necessary. The joint assessment will be done in every SC meeting.

Templates for each action will be provided to assure the quality of the material produced and the dissemination of project advances and results.

499/500

Will the management of the project's communication be externalised?

No

## C.7 Horizontal principles

Please indicate to which extent the project contributes to EU horizontal principles, and justify your choice.

### Sustainable development

Type of contribution

Positive

Description of the contribution

The project proposal addresses Policy Objective 2 Greener Europe and the Specific Objective of Renewable Energy, but the truth is that it contributes to other objectives, too. It highlights the importance of maintaining the global lead in green hydrogen and of expanding clean technological manufacturing in the EU. It will allow to materialize the job opportunities inherent to the energy transition, contributing to a more social Europe with better job perspectives for its citizens.

Green hydrogen and low carbon gases will help solve a lot of complex questions in the energy transition, and as their development is not tied to fossil fuels it is a great opportunity for regional sustainable growth, contributing to a Smarter Europe.

737/1000

## Equal opportunities and non-discrimination

Type of contribution

Neutral

Description of the contribution

The principle of equal opportunities and non-discrimination will be respected during the entire project implementation. All the project partners will assure equal opportunities and prevent any discrimination based on sex, racial or ethnic origin, religion or belief, disability, age or sexual orientation during its timeline and in particular in relation to access to funding. But more importantly, all suggestions for improvement in policy instruments will be based on this principle.

485/1000

## Equality between men and women

Type of contribution

Neutral

Description of the contribution

The principle of gender equality will be respected during the entire project implementation. Gender equality will be promoted at all stages of the project and equal opportunities will be applied between men and women: this will be taken into account in the project management and in all the activities that are implemented throughout the project. The communication strategy will also be elaborated respecting this principle.

424/1000

## C.8 Project management

### C.8.1 Overall management

Please describe how the overall management will be ensured? Which body will make strategic project decisions and according to which rule? What will be the composition of this body? If relevant, how will the responsibilities be shared among the partners?

UNIFHY will ensure effective and successful management of the project through the following structure:

- Lead Partner: AGENEX (LP) is responsible for the overall management of the project (technical, financial and administrative) including all communications with the Programme's Authorities and the JS. A PROJECT COORDINATOR (PC) will be appointed by LP, responsible for the project management. The PC will ensure the proper project implementation and successful development of the work plan as described in the Application Form, supporting project partners in their activities, and coordinating the exchange of experiences. He will also be responsible for communication with JS, reporting the progress of the learning activities during the Semestral Progress Report, including any changes or deviations.
- STEERING COMMITTEE: The SC will be appointed at the beginning of the project, composed by one representative for each project partner and steered by the project coordinator. The SC will meet every 6 months coinciding with the IE. The SC will monitor the project and will provide guidance regarding its implementation, ensuring the quality of project activities. The quality will be evaluated and monitored through a surveying of participants aiming to improve future learning activities.
- TASK LEADERS: Every learning activity (Interregional events, LSM, Good Practices Analysis) has a partner responsible for their coordination that should ensure the right development of the activities. The task leaders should be in continuous contact with LP/PC for the proper preparation, implementation, documentation, and evaluation of every learning activity.
- ROBUST QUALITY UNIT: described in section C4.
- COMMUNICATION MANAGER: A representative of PP02 will manage the development of the communication activities, following the Communication Strategy, coordinating the partners' contributions to ensure the dissemination of project activities and results.

1966/2000

### C.8.2 Day-to-day coordination

Please describe how the day-to-day coordination will be ensured.

The day-to-day coordination of UNIFHY project will be managed by the PROJECT COORDINATOR (PC), responsible for the management of the project activities, communications with JS and reporting of project advances in the Progress Reports. Day-to-day management activities will include at least:

- One semestral Steering Committee meeting, to be held in the context of an IE (and any additional one if necessary).
- Online Follow-up meetings at the beginning of each semester to plan the activities that will be carried out in the period ahead.
- A project management handbook (with an updated work plan and Gantt).
- Quality Monitoring Methodology.
- Internal communication channels: emails, phone calls, online meetings, and a joint repository for sharing documents.
- Periodic progress reports in compliance with the subsidy contract.
- Communications with JS.
- Coordination with financial and communication manager.
- Maintenance of the Quality Monitoring.

958/1000

Will the project coordination be externalised?

No

### C.8.3 Financial management and reporting

Please describe how the financial management and reporting procedures will be ensured.



LP01-AGENEX, as LP of the project, will also be in charge of the financial management and reporting.

v2 | Open

Semestral Progress Reports include technical and financial information about the project activities developed and their associated costs. PC will provide a template to be filled in with the info required regarding the implementation of technical activities to elaborate the joint progress report.

PC will review the information provided by partners to ensure that they are in line with the AF. If any deviation is identified during the process of drafting the joint report, it will be notified to the affected partner or partners and the JS will be informed together with the measures that will be implemented in the following period to recover the expected financial execution.

The LP will submit the joint progress report to the JS within 3 months after the reporting period ended. Once it is approved and AGENEX has received the funds, they will be transferred to all partners with no delay.

999/1000

Will the financial management be externalised?

No

## D Main policy instruments addressed

[v2 | Open](#)

### Overview main policy instruments addressed

Number ↑	Name of the policy instrument	Name of the policy responsible authority	Involvement of the policy responsible authority	Investment for Jobs and Growth programme	Country
1	Programa de Extremadura FEDER 2021-2027 Priority P2A. Green Transition. Specific Objective RSO2.2. Promote renewable energies (EU Directive 2018/2001)	Directorate General for Industry, Energy and Mines - Regional Government of Extremadura	Associated Policy Authority	Yes	Spain (España)
2	Business Strategy for the Municipality of Aalborg 2023-2026 (Aalborg Kommune Erhvervsstrategi 2023-2026)	Aalborg Municipality	Partner	No	Denmark (Danmark)
3	Fossil fuel-free region in 2030 (Fossilbränslefri region 2030)	Region Kalmar County	Associated Policy Authority	No	Sweden (Sverige)
4	Hydrogen Technology Development Strategy of the Moravian-Silesian Region	Moravian-Silesian Region	Partner	No	Czech Republic (Česko)
5	Renewable Energy Strategy for Waterford City and County	Waterford City and County Council	Associated Policy Authority	No	Ireland (Éire/Ireland)
6	Energy Development Program for the Lubelskie Voivodeship	Lubelskie Voivodeship	Partner	No	Poland (Polska)

### Overview pilot actions

Number ↑	Title	Policy instrument(s) concerned
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## D.1 Policy instrument 1

v2 | Open

### D.1.1 Territorial context and general description

#### D.1.1.1 Territorial context

What is the state of play of the issue addressed by the project in the territory covered by the policy instrument? Which challenge needs to be overcome in this territory? Please be as specific as possible and provide detailed information on the characteristics of the territory.

In the last 4 years, Extremadura has doubled the amount of renewable power installed, mainly due to the rapid increase of solar PV panels deployed in the territory, making it the Spanish leader in solar energy generation, although it aims to be the first producer of renewable energy overall. It has the potential, the resources, and the political commitment; in fact, in 2022 it produced with renewables twice the regional electric demand.

But there is still a gap to green when it comes to non-electric consumption and to storing the energy that isn't consumed at the time of generation. Using this excess renewable energy to generate green hydrogen could be a possible solution. Moreover, the region's energy and climate plan foresees, among the 10.000 MW of new renewable power to be installed by 2030, electrolyzers for green hydrogen production within the energy mix of technologies.

There are still some challenges to overcome, such as how to involve the whole value chain in the different sectoral uses and with different hydrogen production pathways. Even if regional policies mention the inclusion of green hydrogen in the energy system, there is not a specific roadmap defined for how these targets will be met. The technological aspects may be addressed with the creation of the new Iberian Centre for Energy Research and Storage (CIAE), but the measures to be implemented at policy level to involve end-users and plan a strategy to uptake green hydrogen still need to be defined.

1495/1500

#### D.1.1.2 General description of the policy instrument

Please name the policy instrument addressed (for Investment for jobs and growth goal programmes, please provide the name of the operational programme concerned).

Programa de Extremadura FEDER 2021-2027  
Priority P2A. Green Transition.  
Specific Objective RSO2.2. Promote renewable energies (EU Directive 2018/2001)

150/150

Is this instrument an Investment for jobs and growth goal programme (i.e. national or regional operational programme)?

Yes

Please indicate the geographical scope of this instrument

Regional

Please select how the authority responsible for this policy instrument is involved in the project:

The authority responsible for this policy instrument is involved as...

Associated Policy Authority

Please select the authority responsible for this policy instrument.

Directorate General for Industry, Energy and Mines - Regional Government of Extremadura

Please describe the main features of this policy instrument (e.g. objective, characteristics, priority or measure addressed).

The ERDF Programme for Extremadura 2021-2027 was approved in December 2022 to receive support from the European Regional Development Fund with the objective of investing in jobs and growth in the Autonomous Community of Extremadura. Following the EU's policy framework, the Programme has different priorities. UNIFHY will focus on the second, P2A. Green Transition, and on the second specific objective, RSO2.2. to promote renewable energy in accordance with the EU Directive 2018/2001 for renewable energy, including the sustainability criteria stated in it.

v2 | Open

The PI defines the promotion of renewable energies as essential, especially taking into account the link between economic activity, economic growth and the increase in GHG emissions. The chosen RSO will give priority to supporting non-traditional and innovative renewables with much lower profitability than the more mature technologies, to the promotion of citizen participation in the energy transition and to the full incorporation of renewable energy in the different sectors, with attention to the deployment of thermal renewables.

The Program specifically mentions promoting the use of renewable gases and, among the measures to be encouraged, is the incorporation of new generation technologies such as green hydrogen produced through renewable energies defined in article 2.1 of the Directive (EU) 2018/2001, being its use intended for industrial processes in general and prioritizing stationary use (excluding urban transport).

1497/1500

#### D.1.1.3 Expected policy improvement

What kind of improvement do you envisage for this instrument?

New projects financed by the instrument

No

0/1500

Change in the management of the instrument

Yes

The final objective of Extremadura's participation in UNIFHY project is to learn about interesting and successful management practices of the other participating regions in the field of renewable and low-carbon gases that could be transferred to Extremadura in the application to green hydrogen. Some of the most interesting topics evolve around the better governance of ERDF funds and the establishment of public-private partnerships or other possibilities of collaboration and support to uptake innovative technologies, such as green hydrogen.

Achieving the targets set in the region for 2030 will imply that the economic and human resources are optimally managed and reach relevant projects. UNIFHY will help Extremadura develop a new approach and define relevant criteria to select the projects that should be supported through the policy instrument addressed. It will be beneficial to learn about different evaluation and assessment tools to prioritize the investments.

UNIFHY will also help identify new end-users of green hydrogen, such as agrifood cooperatives, and will be able to address the support provided in a more efficient way, as it may be necessary to implement changes in the potential beneficiaries of public support.

1239/1500

No

## D.1.2 Partner(s) addressing policy instrument 1

v2 | Open

Partner

LP01 Consortium Extremadura Energy Agency

What is the policy relevance of this partner (the link to the authority responsible for the policy instrument addressed and its capacity to influence this instrument)?

AGENEX is a public law entity attached to the Regional Government of Extremadura through the ministry with competences in energy matters. It is constituted for an indefinite duration by the Agreement between the Regional Government and the County Councils of Caceres and Badajoz.

As the public regional energy agency, it implements mandates from the reg. government and provides support in the direct definition of the energy policies for the DG for Industry, Energy and Mines. An example of this is the successful structural change achieved through FINERPOL project regarding the use of ERDF to support a financial instrument instead of grants. Other achievements in the period 2014-2020 imply relocating budget to finance new projects and improved management of calls with new services (CISMOB, SocialGreen, ENERSELVES, FIRESPOL, DeCarb, AgroRES, Resindustry).

AGENEX will be able to successfully cooperate in the new period with 2 projects approved under the 1st call, MonitorEE and ShareRES.

996/1000

What are the partner's competences and experiences in the issue addressed by the project?

AGENEX was created in 2001 to promote the use of RES, EE and energy planning in Extremadura. Its mission is to support local and regional policy makers in defining strategies and directives to achieve energy targets. It seeks to boost green technologies, promote R&D projects, fund sectoral initiatives and support project promoters, and raise awareness on energy transition, sustainability and climate change.

During 2014-2020 AGENEX developed thematic strategies in different fields of energy and it created working groups in relevant topics, being one of them Hydrogen. This allows AGENEX to meet periodically and gather key actors from the public and private sector, associations and academia.

AGENEX is an active member of the Spanish association of energy agencies, ENERAGEN; a new member of the European federation of energy agencies, FEDARENE; and in the process of becoming a new member of Hydrogen Europe that promotes hydrogen as an enabler of a zero-emission society.

980/1000

How will the partner benefit from the cooperation? In case this partner plays a particular role in the project (e.g., responsible for a specific topic, for communication activities), please also indicate it here.

Green hydrogen production is a very recent and innovative topic in Extremadura, but there are some countries that have a significant experience in other low-carbon gases, and some of the learnings and good practices regarding grid integration or end-users demand could be transferred to the partners during the project implementation.

Having advanced partners on the topic from the North and West geographical zone is a huge opportunity for Extremadura, and so is cooperating with the Eastern partners, who in many cases are back runners but not in this one. Poland has a national hydrogen strategy and Ostrava has already in place a strategy for developing hydrogen technologies, involving the entire value chain.

AGENEX and its APA will learn from successful experiences, allowing to adapt and transfer them to Extremadura. It will also allow to increase the capacity of both organizations in the use of ERDF in this topic and to evaluate the effectiveness of the regional policy instruments.

996/1000

In case the partner is involved in several Interreg Europe applications/ projects, please justify this multiple involvement.

AGENEX is currently leading two first call projects: MonitorEE and ShareRES.

AGENEX is participating in another second call proposal as project partner. The objective of this proposal, COMMIT, is to support local and regional authorities in developing an SME support ecosystem for the industrial transition. It doesn't focus on Greener Europe, but Smarter Europe instead, although seeking a smart decarbonization of the industry.

There is a team of 31 people working at AGENEX, most of them are engineers but there is also a stable administration and financial structure. It has a vast experience in EU projects and has successfully implemented several projects simultaneously, ensuring there is no double funding of staff or resources. AGENEX has the capacity for implementing both projects if it was the case that they were both approved, and the learnings would be complementary as they work on different priorities but they are strongly related.

### D.1.3 Stakeholder group relevant for policy instrument 1

v2 | Open

Please provide an indicative list of the most relevant stakeholders (i.e., name of the organisation concerned) to be involved in the project. It is recommended to have no more than 12 entries.

You have 9 entries.

Directorate General for Industry, Energy and Mines - Regional Government of Extremadura

87/300

Extremadura Agrifood Cooperatives: organization that gathers and represents the regional cooperative movement. Potential beneficiaries to transform their energy supply model from natural gas to green hydrogen.

209/300

ASPREMETAL: regional association of entrepreneurs of Extremadura, including the metal market and transformation, electric installers, and climate control and associated energy.

178/300

Extremadura's Hydrogen Working Group: established in 2021 and representing the interests of all key actors in the hydrogen value chain and development. It includes public representatives, many private companies and industry, installers and associations, academia, and potential beneficiaries.

292/300

CETAEX: non-profit business association that offers research, development and innovation

88/300

Caceres County Council

22/300

Badajoz County Council

22/300

University of Extremadura

25/300

Foundation Fundecyt - Science and Technology Park of Extremadura

64/300



D.1.4 Pilot action under policy instrument

v2 | Open

Is a pilot action proposed to improve this policy instrument?

No

## D.2 Policy instrument 2

v2 | Open

### D.2.1 Territorial context and general description

#### D.2.1.1 Territorial context

What is the state of play of the issue addressed by the project in the territory covered by the policy instrument? Which challenge needs to be overcome in this territory? Please be as specific as possible and provide detailed information on the characteristics of the territory.

Aalborg Municipality needs to comply with the national CO2 emission reduction target of 70% in 2030 in relation to 1990, and as a result, Aalborg Municipality, and subsequently the North Denmark region as a whole, plans to become an international pioneer for CO2 capture, use and storage.

In 2030, a piped infrastructure system will be established for transport of both CO2 and hydrogen. When speaking of large-scale infrastructure projects, they often go beyond the politically decided borders of municipalities. As the largest and capital municipality of North Denmark, and municipality with most fossil-based CO2 emission, the said piped infrastructure will be initiated from Aalborg Municipality and then extend into the adjacent municipalities in the North Denmark region.

The infrastructure should be accessible for companies for transport and use, which enables the largest emitters in the municipality, and later the entire region, to capture emissions and give other companies the opportunity to produce, e.g. hydrogen and other green fuels. At the same time, several intermediate storage facilities will be established in the municipality, e.g. at the Port of Aalborg.

Aalborg Municipality has a significant position in the form of a strong chain of actors, where CO2 capture from waste incineration plants and other large point sources of CO2 emissions are central to the subsequent use of CO2 as building blocks in new products, such as hydrogen.

1463/1500

#### D.2.1.2 General description of the policy instrument

Please name the policy instrument addressed (for Investment for jobs and growth goal programmes, please provide the name of the operational programme concerned).

Business Strategy for the Municipality of Aalborg 2023-2026 (Aalborg Kommune Erhvervsstrategi 2023-2026)

104/150

Is this instrument an Investment for jobs and growth goal programme (i.e. national or regional operational programme)?

No

Please indicate the geographical scope of this instrument

Local

Please select how the authority responsible for this policy instrument is involved in the project:

The authority responsible for this policy instrument is involved as...

Partner

Please select the authority responsible for this policy instrument.

PP02 Aalborg Municipality

Please describe the main features of this policy instrument (e.g. objective, characteristics, priority or measure addressed).

v2 | Open

Priority 4 of Aalborg Municipality Business Strategy focuses on Sustainable Energy Security, including a strengthening of the municipal energy supply infrastructure in order to attract companies working with green transition.

Goals:

- Develop infrastructure and framework conditions that support, develop and ensure energy supply, including industrial symbioses, sector integration as well as hydrogen and CO2.
- Strengthen, develop and promote industrial symbioses with a view to increasing innovation and export opportunities.

Actions:

- Promote the use of surplus heat from industry for district heating/cooling.
- Promote the establishment of agricultural climate solutions and ensure advantageous locations of future facilities for biogas production, CO2 capture, Power-to-X, grass protein and biochar.
- Plan for further expansion of wind turbines and solar panels.
- Attract investors and develop projects (both pilot and demonstration).
- Build partnerships with international actors within green transition projects.
- Leverage new projects via funding from both Denmark and the EU (eg. the Foundation for Just Transition)

Indicators:

- 2 x 20 annual climate partnerships with industry and agriculture partners, respectively, with a reduction potential of 200,000 tonnes by 2030.
- Establishing two international partnerships within green transition each year.
- Attracting 50 million annually in external funding from the EU and Danish funding programs.

1482/1500

#### D.2.1.3 Expected policy improvement

What kind of improvement do you envisage for this instrument?

New projects financed by the instrument

No

0/1500

Change in the management of the instrument

Yes

The policy addressed by Aalborg Municipality specifically states that two international partnerships on green transition, test and demonstration should be established annually between 2023 and 2026. Besides that, we will focus on developing the infrastructure and framework which supports, develops and secures a stable energy supply (electricity, gas, water and heat), industrial symbiosis, sector cobbling, hydrogen and CO2.

v2 | Open

UNIFHY can play a significant role in Aalborg Municipality being able to reach the abovementioned goals, as the project will create a favourable knowledge pool for Aalborg Municipality to leverage on both during and after the project timeframe and vice versa.

UNIFHY gathers partners from all parts of Europe with the common goal of creating a better environment for the implementation and scaling of green hydrogen ecosystems. The project will help clarify the state of play in the various partner regions and as such make it easier to identify future collaboration opportunities building on UNIFHY.

The policy addressed by Aalborg Municipality will be improved by UNIFHY in two ways: first by defining the status of hydrogen ecosystems across Europe in order to find new collaboration partners to enter into new partnerships with and, second, by providing the steppingstones for creating the right framework for a stable, green energy supply.

1374/1500

Revision of the instrument itself

No

0/1500

## D.2.2 Partner(s) addressing policy instrument 2

v2 | Open

Partner

PP02 Aalborg Municipality

What are the partner's competences and experiences in the issue addressed by the project?

The part of Municipality of Aalborg that will be managing the project is the team for green jobs and businesses in Aalborg Municipality's business division, called Business Aalborg.

This team also operates the large-scale regional project called CO2VISION, which focuses on capture, reuse or storage of CO2 to produce hydrogen and other future green fuels produced from surplus electricity. The projects also seeks to ensure that Aalborg Municipality and the North Denmark region become first places in Denmark to roll out the future energy infrastructure for the transport of CO2 and hydrogen.

BusinessAalborg was created in 2007 in order to create growth, greater turnover and more jobs in the city of Aalborg and the North Denmark region. As such, BusinessAalborg's 50 dedicated employees has more than 15 years of experience in working with business services, internationalization, project management, analysis, strategy, partnerships, funding and communication.

968/1000

How will the partner benefit from the cooperation? In case this partner plays a particular role in the project (e.g., responsible for a specific topic, for communication activities), please also indicate it here.

Municipality of Aalborg seeks to benefit from the cooperation by learning how other project partners have organized their approaches to decarbonisation through hydrogen ecosystems. In particular, we hope to learn how other regions have formulated their regulatory framework for hydrogen as well as how they navigate these regulations and potentially how they are influencing policy makers to make it easier to enable hydrogen production and establish infrastructure.

466/1000

In case the partner is involved in several Interreg Europe applications/ projects, please justify this multiple involvement.

Municipality of Aalborg is also involved in another Interreg Europe application with the same policy in focus (Business Strategy for Municipality of Aalborg 2023-2026).

The two applications will focus on two different priorities in the policy. The present application will concentrate on priority 4 of the business strategy, which focuses on sustainable energy supply and hydrogen, whereas the other Interreg Europe application, COMMIT, focuses on the policy's priority 3: SMEs, business development and growth.

513/1000

### D.2.3 Stakeholder group relevant for policy instrument 2

v2 | Open

Please provide an indicative list of the most relevant stakeholders (i.e., name of the organisation concerned) to be involved in the project. It is recommended to have no more than 12 entries.

You have 8 entries.

Hydrogen Valley (Project organisation on hydrogen test and demonstration)

73/300

North Denmark EU Office

23/300

Energy Cluster Denmark (Innovation cluster for energy companies in Denmark)

75/300

EVIDA (National gas distributor of Denmark)

43/300

Aalborg Portland (Cement factory in Aalborg Municipality)

57/300

Business Region North Denmark (Cross-municipal body of North Denmark)

69/300

Nordværk (Aalborg Municipality's waste incineration plant)

58/300

Aalborg University – Energy Department

38/300

D.2.4 Pilot action under policy instrument

v2 | Open

Is a pilot action proposed to improve this policy instrument?

No

## D.3 Policy instrument 3

v2 | Open

### D.3.1 Territorial context and general description

#### D.3.1.1 Territorial context

What is the state of play of the issue addressed by the project in the territory covered by the policy instrument? Which challenge needs to be overcome in this territory? Please be as specific as possible and provide detailed information on the characteristics of the territory.

The use of hydrogen in Kalmar County is currently limited; only a nuclear power plant is identified as a producer and user. There are ongoing initiatives to establish two government-funded hydrogen fuel stations within the next two years. With a distribution network in place, this will facilitate an initial use of hydrogen for primarily heavy vehicles such as trucks, agricultural machinery and construction machines.

The challenge is to complete the value chain in terms of finding users for the hydrogen, creating a market. Today there are only a few vehicle suppliers, however prototypes are being tested. There is an interest from renewable energy entrepreneurs in producing hydrogen for storage purposes and for e-fuels. The county has a glass industry that currently uses propane and electricity for their ovens and to reduce environmental impact and costs, they are keen on substituting propane for hydrogen. But a barrier is that the technology is partly unproven.

Additionally, the County runs a railway that is not economically feasible for electrification but could possibly use hydrogen as a replacement for today's fossil diesel. Gotland, Sweden's largest island is connected by ferry, and the service has short-term plans for changing to pilot hydrogen ferries. And a regional brewery with a large PV installation would like to produce hydrogen for the distribution of products. All these initiatives would benefit from a hydrogen infrastructure.

1466/1500

#### D.3.1.2 General description of the policy instrument

Please name the policy instrument addressed (for Investment for jobs and growth goal programmes, please provide the name of the operational programme concerned).

Fossil fuel-free region in 2030 (Fossilbränslefri region 2030)

62/150

Is this instrument an Investment for jobs and growth goal programme (i.e. national or regional operational programme)?

No

Please indicate the geographical scope of this instrument

Regional

Please select how the authority responsible for this policy instrument is involved in the project:

The authority responsible for this policy instrument is involved as...

Associated Policy Authority

Please select the authority responsible for this policy instrument.

Region Kalmar County

Please describe the main features of this policy instrument (e.g. objective, characteristics, priority or measure addressed).



Since 2006, Kalmar County has set a goal to become a fossil fuel-free region by 2030, and this is an essential part of the regional development. This is consolidated in the addressed policy instrument "action program for a fossil fuel-free region -NO OIL". The policy Instrument was developed and approved in 2006 and has been updated on a regular basis. The current version was approved in 2019 by the Region Kalmar County.

v2 | Open

The action program for a fossil fuel-free region-NO OIL presents common strategies, sub-goals, and prioritized activities. The starting point is that the work should lead to reduced emissions of fossil carbon dioxide, more efficient energy use, and a growing economy contributing to sustainable development. The public sector should take the lead and demonstrate that it is possible to combine ambitious climate goals with sustainable growth. Therefore, the municipalities in the county follow the regional action plan with local versions.

The action program for a fossil fuel-free region-NO OIL comprises a total of six goal areas with sub-goals and various activities to achieve them. These encompass fossil fuel-free production, fossil fuel-free energy consumption, efficient energy use, a growing economy for sustainable development, knowledge, awareness, and sustainable consumption, as well as resources, foundations, and working methods (i.e. the goal is that Kalmar County's industries and companies will use 100% fossil-free energy by 2030).

1477/1500

#### D.3.1.3 Expected policy improvement

What kind of improvement do you envisage for this instrument?

New projects financed by the instrument

No

0/1500

Change in the management of the instrument

No

0/1500

Revision of the instrument itself

Yes

The implementation of UNIFHY will offer valuable insights to improve the policy instrument, providing the policy owner relevant basis for the revision of the document. The policy instrument should address and support new and innovative ways of lowering the environmental impact by combining carbon dioxide capture and green hydrogen to produce different types of e-fuels that could be used in industrial, road, aviation and maritime applications. UNIFHY will help a regional strategy for hydrogen to be created, which will address the challenges of the complete value chain. v2.1 Open

The County has offshore wind power planned, and a challenge is the surplus electricity produced by offshore wind, but hydrogen production could balance demand and supply. The policy instrument should support a development for e-fuels.

Some industries still use vast amounts of fossil fuels such as propane for heating, an implementation that could be converted to hydrogen (for instance the glass industry). The policy instrument should support research in the area and pilot installations for research feasibility.

The County of Kalmar runs a train on a non-electrified railway. The policy instrument should promote a fossil free replacement of the currently used diesel and study if hydrogen could be an option. Another challenge is to reduce the CO2 emissions from the long-distance freight transports. Hydrogen is an important option which should be supported in the policy instrument.

### D.3.2 Partner(s) addressing policy instrument 3

v2 | Open

Partner

PP03 Energy Agency Southern Sweden

What is the policy relevance of this partner (the link to the authority responsible for the policy instrument addressed and its capacity to influence this instrument)?

The Agency (ESS) is owned by an association of regional and local authorities in the counties of Blekinge, Kalmar, Kronoberg and Skåne. It has a huge knowledge of energy and transport, and it is a resource for developing Energy and Climate Plans and Strategies, with long run experience in EU-funded projects.

ESS is owned by the policy owner and it acts as their expert in energy related questions. ESS mission towards the policy owner in this case specific is to support them in the improvement of the appointed Policy Instrument and to participate in the activities as a prominent actor in the process. The policy owner requests and allows that ESS takes lead in the process concerning energy related questions in the policy instrument. However, in the final round of changes proposed for improvement, it is the policy owner who makes the final decision at the political level.

881/1000

What are the partner's competences and experiences in the issue addressed by the project?

ESS is doing a feasibility study to investigate the circumstances for the development of green hydrogen in the region and is assisting the Regional Council of Kalmar to develop and improve the policy Instrument, acting as the regional expert in the topic of climate and energy. The agency is a KEY PLAYER of the regional cooperation platform which aims to accelerate the implementation of the county's energy and climate goals and find new methods and solution. This, together with long EXPERIENCE and extensive KNOWLEDGE on local production of renewable energy, the agency can INFLUENCE the policy instrument and coordinate other stakeholders in the territory. ESS has worked since 1999 to increase the share of renewable energy, for example, increasing knowledge and acceptance for wind power. In the regional project "Catch the wind" one of the main task was to organize dialogue meetings with decision makers in municipalities.

931/1000

How will the partner benefit from the cooperation? In case this partner plays a particular role in the project (e.g., responsible for a specific topic, for communication activities), please also indicate it here.

ESS can CONTRIBUTE to cooperation by organizing study visits, providing best practices in green hydrogen production, and supporting the learning platform. In return, ESS will BENEFIT from the cooperation by learning from partners' practices, receiving tailored mentoring, attending workshops and conferences, and improving regional policies with stakeholders.

Previous IE projects are: TRIS (ERDF Småland and Öarna), ENERSELVES (ERDF Skåne Blekinge), SUPPORT and EMPOWER (Action Plan for Regional Environmental Objectives in Kalmar County), POTENT (Regional Development Strategy for Kronoberg County), and SIRENERGY (regional development strategy Growth Place Blekinge). Involvement in multiple projects is due to operating in four counties with distinct strategies, topics, and goals. No projects have addressed the same policy instrument as UNIFHY.

852/1000

In case the partner is involved in several Interreg Europe applications/ projects, please justify this multiple involvement.

ESS currently only has one Interreg Europe project that is still ongoing: SIRENERGY, it addresses the regional development strategy Growth Place Blekinge.

154/1000

### D.3.3 Stakeholder group relevant for policy instrument 3

v2 | Open

Please provide an indicative list of the most relevant stakeholders (i.e., name of the organisation concerned) to be involved in the project. It is recommended to have no more than 12 entries.

You have 10 entries.

Linneaus University	19/300
County Administrative Board of Kalmar County (CABKC)	52/300
Region Kalmar County	20/300
Oskarshamn municipality	23/300
Västervik municipality	22/300
Kalmar municipality	19/300
Destination Gotland AB (On behalf of the Swedish state, Destination Gotland AB operate the ferry services between Visby, Nynäshamn, and Oskarshamn)	147/300
Widéns Åkeri (a modern and environmentally conscious freight transport company with extensive experience in the industry, handling general cargo, partial loads, and hazardous materials (ADR), specialized in temperature-controlled transportation)	245/300
AB Åbro Bryggeri (Åbro Bryggeri is an independent brewer with a strong focus on sustainable solutions, planning for hydrogen production for transportation)	155/300
PS Energi (Fuel infrastructure for heavy transportation in southern Sweden)	75/300

D.3.4 Pilot action under policy instrument

v2 | Open

Is a pilot action proposed to improve this policy instrument?

No

## D.4 Policy instrument 4

v2 | Open

### D.4.1 Territorial context and general description

#### D.4.1.1 Territorial context

What is the state of play of the issue addressed by the project in the territory covered by the policy instrument? Which challenge needs to be overcome in this territory? Please be as specific as possible and provide detailed information on the characteristics of the territory.

The Moravian-Silesian region is one of the most industrialized regions in the Czech Republic, but it also faces high air pollution and low energy self-sufficiency. In the context of the EU's targets for reducing GHG emissions and transitioning to a low-carbon economy, it is essential to look for new ways to decarbonize transport, industry and the energy/heating sector in the region: hydrogen is a promising approach.

There are many drivers in the MSR to promote the use of hydrogen: a strong industrial basis with the potential for innovation and cooperation between academia and business, a geographical location at the crossroads of trans-European transport networks, an untapped potential for RES and a commitment of regional government and local stakeholders.

The Hydrogen Technology Development Strategy aims to contribute to the necessary structural change of the region and the definitive end of coal mining, which is expected to occur just after 2030. So far, the MSR has created key mechanisms for the development of hydrogen technology and now needs to accelerate all activities that are supported in the framework.

There is a need to create a roadmap in several areas: the application of hydrogen technologies and their connection to RES to generate green hydrogen; the improvement of competences for the use of new instruments of non-subsidy financial support; integration of hydrogen in local frameworks; and capacity building for the implementation of smaller projects.

1489/1500

#### D.4.1.2 General description of the policy instrument

Please name the policy instrument addressed (for Investment for jobs and growth goal programmes, please provide the name of the operational programme concerned).

Hydrogen Technology Development Strategy of the Moravian-Silesian Region

72/150

Is this instrument an Investment for jobs and growth goal programme (i.e. national or regional operational programme)?

No

Please indicate the geographical scope of this instrument

Regional

Please select how the authority responsible for this policy instrument is involved in the project:

The authority responsible for this policy instrument is involved as...

Partner

Please select the authority responsible for this policy instrument.

PP04 Moravian-Silesian Region

Please describe the main features of this policy instrument (e.g. objective, characteristics, priority or measure addressed).

v2 | Open

The main goal of the Strategy for the Development of Hydrogen Technologies of the Moravian-Silesian Region is to use hydrogen in transport, industry and energy and thus contribute to the decarbonization and transformation of the region. This will also create a new and innovative industry that will lead to job creation and economic growth. The purpose of the strategy is to capture the entire chain from production, transport and storage infrastructure to the use of hydrogen; as well as to involve all the reg. stakeholders, promoting close cooperation between the public, private and academic sectors.

This strategy is part of a wider plan to transform the region's energy system and reduce greenhouse gas emissions, and it sets out the following objectives:

- Promote the production and use of low-carbon and green hydrogen in the region to increase energy resilience and adaptation to climate change
- Develop hydrogen technologies and businesses in the region and promote their competitiveness in the EU/global market
- Create new industrial segments of hydrogen technology, including applied research and development
- Engage in EU and international hydrogen-related initiatives and projects, and cooperate with other EU regions
- Increase awareness and involvement of citizens, businesses and institutions.

The strategy is based on 4 key areas: production, consumption, infrastructure and innovation. In each one of them, specific actions and indicators are defined to monitor progress.

1497/1500

#### D.4.1.3 Expected policy improvement

What kind of improvement do you envisage for this instrument?

New projects financed by the instrument

Yes

The policy instrument is now at an advanced stage of preparation and will be approved in December 2023. During the implementation of UNIFHY, MSR will gain new knowledge on the interregional learning mechanisms and will focus on identifying good practices in new projects for developing Hydrogen Valleys.

The hydrogen strategy of the region is directly linked to various sources of co-financing to allow fulfilling its objectives. The regional allocation of the JTF or the Modernization Fund is foreseen, but above all, the identification of appropriate project plans using dedicated funding or financial instruments is desirable for the further development of the MSK Hydrogen Valley concept, which should be targeted and reformulated based on this project proposal.

On the basis of the expanded policy instrument framework that will take place within the project activities, it will be possible to build a comprehensive interregional cooperation based on the information and experience gathered during the project, such as transferring proven good practices, creating a local hydrogen market, assisting in the field of energy security of hydrogen supply or increasing the motivation of undeveloped neighbouring regions.

The goal is to achieve new projects in the region that with their scope and complexity will meet the funding requirements to support hydrogen applications at a European regional scale.

1409/1500

Change in the management of the instrument

No

0/1500

Revision of the instrument itself

No

0/1500



## D.4.2 Partner(s) addressing policy instrument 4

v2 | Open

Partner

PP04 Moravian-Silesian Region

What are the partner's competences and experiences in the issue addressed by the project?

The Moravian-Silesian Region is responsible for the development of the region, including the area of regional transport, and for approving strategies. Besides, It supports - together with other stakeholders in the region - the preparation and implementation of the chosen PI, the Regional Strategy for the Development of Hydrogen Technologies.

The Moravian-Silesian Hydrogen Cluster is the expert guarantor for the development and evaluation of the PI, it is trusted with its management and monitoring and any needed modifications. It's task is to coordinate the entire process of strategy preparation and implementation.

MSR delegates professional and specific activities related to the strategy to the Cluster, that will have the competence to complete project activities by:

- Promoting the benefits of hydrogen
- Supporting the development of the Hydrogen Valley concept ecosystem
- Building partnerships and cooperation with stakeholders
- Creating an economic basis and pooling investments

998/1000

How will the partner benefit from the cooperation? In case this partner plays a particular role in the project (e.g., responsible for a specific topic, for communication activities), please also indicate it here.

The benefit for the region cooperating within this project is the possibility of participating of the interregional transfer of information and learnings. The policy instrument is newly developed and any improvements and inspiration from experienced and successful partners from different parts of the EU will be extremely valuable.

The learning experiences gained will contribute to increasing capacity and improving competences for managing European funds in the most cost-effective way. Additionally, there will be benefits for the region's hydrogen Cluster that will have the possibility to actively involve their whole membership to interact with newly identified information and good practices. This will ensure through its participation in the project the fulfilment of its mission to provide service to its members and facilitate expert discussion on the possibilities of application of hydrogen technologies or even educate stakeholders and the general public in the field.

984/1000

In case the partner is involved in several Interreg Europe applications/ projects, please justify this multiple involvement.

The Moravian-Silesian Region is currently not involved in any other Interreg Europe project or proposal.

104/1000

### D.4.3 Stakeholder group relevant for policy instrument 4

v2 | Open

Please provide an indicative list of the most relevant stakeholders (i.e., name of the organisation concerned) to be involved in the project. It is recommended to have no more than 12 entries.

You have 11 entries.

- Czech National Association of Community Energy  
46/300
- Moravian-Silesian Investment and Development  
44/300
- Moravian-Silesian Innovation Centre  
35/300
- Moravian-Silesian Energy Centre  
31/300
- City of Ostrava  
15/300
- Cylinders Holding  
17/300
- Technical University of Ostrava  
31/300
- Ministry of Industry and Trade  
30/300
- Ministry of Enviroment  
22/300
- Ministry of Transport  
21/300
- Renewable Energy Chamber  
24/300

D.4.4 Pilot action under policy instrument

v2 | Open

Is a pilot action proposed to improve this policy instrument?

No

## D.5 Policy instrument 5

v2 | Open

### D.5.1 Territorial context and general description

#### D.5.1.1 Territorial context

What is the state of play of the issue addressed by the project in the territory covered by the policy instrument? Which challenge needs to be overcome in this territory? Please be as specific as possible and provide detailed information on the characteristics of the territory.

Waterford City and County in Ireland holds significant potential for the production and utilization of green hydrogen and biomethane, but also faces certain challenges. Green hydrogen, which is produced through electrolysis powered by renewable energy sources, can be generated in Waterford due to its renewable energy potential, particularly from wind and solar resources. Moreover, Waterford has the potential to produce biomethane, a renewable gas derived from organic waste sources such as agricultural residues and food waste. A key challenge in harnessing the potential of green hydrogen and biomethane in Waterford is the lack of appropriate infrastructure to support production, storage, and distribution of these gases. The absence of specific regulations and standards for the production, injection, and utilization of green hydrogen and biomethane can be a barrier. Clear and comprehensive regulations are needed to address safety, quality, and grid integration aspects. A lack of market mechanisms can hinder green gases development and uptake. Addressing these challenges requires multi-stakeholder approach involving reg. authorities, government bodies, industry, research institutions, and communities. By addressing these challenges and capitalizing on its potential, Waterford can become a hub for green hydrogen and biomethane production, contributing to the region's decarbonization efforts and facilitating the transition to a sustainable and low-carbon energy system.

1488/1500

#### D.5.1.2 General description of the policy instrument

Please name the policy instrument addressed (for Investment for jobs and growth goal programmes, please provide the name of the operational programme concerned).

Renewable Energy Strategy for Waterford City and County

55/150

Is this instrument an Investment for jobs and growth goal programme (i.e. national or regional operational programme)?

No

Please indicate the geographical scope of this instrument

Local

Please select how the authority responsible for this policy instrument is involved in the project:

The authority responsible for this policy instrument is involved as...

Associated Policy Authority

Please select the authority responsible for this policy instrument.

Waterford City and County Council

Please describe the main features of this policy instrument (e.g. objective, characteristics, priority or measure addressed).

In accordance with the Renewable Energy Strategy for Waterford, this policy instrument aims to maximize the utilization of green hydrogen and biomethane in the energy system to reduce greenhouse gas emissions, enhance grid stability, and achieve decarbonization goals in the region.

**Characteristics**

- The strategy promotes the production, storage, and distribution of green hydrogen and biomethane from renewable sources, such as wind power, solar power, and biogas. It emphasizes the integration of these renewable gases into the existing energy infrastructure, including the gas network, to ensure a stable and reliable energy supply.
- Improve policies related to grid access and connection can affect the feasibility of injecting green hydrogen and biomethane into the existing gas grid. The goal is to enhance grid stability by incorporating green hydrogen and biomethane into the energy mix.
- The strategy recognizes the potential of green hydrogen and biomethane in decarbonizing the gas network.

**Priority Measures**

This strategy emphasizes measures to facilitate the development of green hydrogen and biomethane projects, including the establishment of infrastructure for storage and distribution, and the facilitation of their injection into the gas network. Market-establishing policies, such as guaranteed off-take agreements, feed-in tariffs, and carbon pricing mechanisms, can provide the necessary economic incentives for producers and create a market demand for renewable gases.

1495/1500

**D.5.1.3 Expected policy improvement**

What kind of improvement do you envisage for this instrument?

New projects financed by the instrument

No

0/1500

Change in the management of the instrument

No

0/1500

Revision of the instrument itself

Yes

SEEA during the UNIFHY project will aim at improving the policy instrument by the revision of the instrument itself (The Renewable Energy Strategy ) in order to address policy barriers and create a conducive environment for green hydrogen and biomethane to contribute to the decarbonization in Waterford:

- Enhances the security of energy supply by supporting the development of indigenous renewable gases, such as green hydrogen and biomethane.
- Develop a comprehensive and streamlined regulatory framework specifically tailored to green hydrogen and biomethane.
- Establish dedicated financial support mechanisms to incentivize the production and utilization of green hydrogen and biomethane.
- Develop guidelines and policies that facilitate the seamless integration of green hydrogen and biomethane into the existing energy infrastructure and gas grid.
- Provide financial incentives and stimulate market development for renewable gases by creating guaranteed off-take agreements, establishing carbon pricing mechanisms, promoting renewable gas certificates.
- Collaborate and engage with industry stakeholders, local communities, and relevant authorities to better understand green hydrogen and biomethane challenges and opportunities.
- Implement a robust monitoring and evaluation framework to assess the progress and impact of policies related to green hydrogen and biomethane.

## D.5.2 Partner(s) addressing policy instrument 5

v2 | Open

Partner

PP05 South East Energy Agency

What is the policy relevance of this partner (the link to the authority responsible for the policy instrument addressed and its capacity to influence this instrument)?

As a regional energy agency, SEEA acts as a collaborator in the development and implementation of renewable energy policies and initiatives. SEEA's influence is further amplified by its ability to gather and analyse data, conduct research, and provide recommendations based on regional energy needs and opportunities. Through its interactions with various stakeholders, SEEA can facilitate dialogue, advocate for renewable energy policies, and foster partnerships to drive the implementation of the strategy. Waterford City and County Council can actively engage with SEEA to seek advice, leverage their expertise, and incorporate their recommendations into the policy instrument. A collaboration between SEEA and the council of Waterford ensures that the strategy aligns with regional priorities, and integrates green hydrogen and biomethane into the energy mix, and uses them to strengthen grid stability and contribute to decarbonization.

941/1000

What are the partner's competences and experiences in the issue addressed by the project?

The SEEA's capacity to influence the Renewable Energy Strategy instrument lies in its ability to provide evidence-based insights, conduct feasibility studies, share best practices, facilitate stakeholder engagement, and offer technical expertise. By actively engaging with Waterford Co.Co, the SEEA can effectively advocate for the inclusion of green hydrogen and biomethane-related measures, ensuring that the strategy reflects the region's potential for green hydrogen and biomethane deployment and maximizes its benefits for decarbonization and energy transition goals. In collaboration with Gas Network Ireland, SEEA has developed a feasibility report assessment of the potential for RE gas and bio-CNG, including hydrogen usage and market assessment in Waterford. Using its expertise, knowledge, and network, the SEEA can provide policy recommendations and financial incentives for the Renewable Energy Strategy, provide insight into the challenges, benefits, and opportunities.

983/1000

How will the partner benefit from the cooperation? In case this partner plays a particular role in the project (e.g., responsible for a specific topic, for communication activities), please also indicate it here.

The cooperation on the UNIFHY project provides the SEEA with valuable resources, knowledge, and networking opportunities:

- Knowledge sharing, best practice exchange, and learning from successful case studies on green hydrogen and biomethane policies, regulations, and implementation strategies.
- Explore effective policy approaches, regulatory frameworks, and incentives for promoting green hydrogen and biomethane uptake in Waterford.
- Influence policy discussions and advocate for regulations, funding mechanisms, and market frameworks that promote green hydrogen and biomethane adoption.
- Leverage the funding opportunities to implement concrete projects in Waterford and showcase the potential and benefits of green hydrogen and biomethane.
- Establish partnerships with other regional stakeholders, including public authorities, research institutions, industry representatives, and NGOs to facilitate future joint initiatives and knowledge exchange.

958/1000

In case the partner is involved in several Interreg Europe applications/ projects, please justify this multiple involvement.

SEEA is currently participating in the EXPRESS project and collaborating with Southern Regional Assembly to develop and implement Regional Policy Objective 98 in the Regional Spatial and Economic Strategy. As part of the SEEA initiative, a dedicated Local Authorities team works closely with the EU team in order to deliver EU projects and assist Local Authorities to move away from fossil-fuels and enable the renewable energy potential and achieving their goals with respect to climate change by 2050.

503/1000

### D.5.3 Stakeholder group relevant for policy instrument 5

v2 | Open

Please provide an indicative list of the most relevant stakeholders (i.e., name of the organisation concerned) to be involved in the project. It is recommended to have no more than 12 entries.

You have 8 entries.

Wexford County Council

22/300

Carlow County Council

21/300

Kilkenny County Council

23/300

Waterford City and County Council

33/300

South East Technological University (SETU)

42/300

Sustainable Energy Authority of Ireland (SEAI)

46/300

Southern Regional Assembly (SRA)

32/300

Gas Network Ireland

19/300



D.5.4 Pilot action under policy instrument

v2 | Open

Is a pilot action proposed to improve this policy instrument?

No

## D.6 Policy instrument 6

v2 | Open

### D.6.1 Territorial context and general description

#### D.6.1.1 Territorial context

What is the state of play of the issue addressed by the project in the territory covered by the policy instrument? Which challenge needs to be overcome in this territory? Please be as specific as possible and provide detailed information on the characteristics of the territory.

Energy transformation is a very important element of the Lubelskie Voivodeship development policy. It is defined in the Development Strategy for the Lubelskie Voivodeship until 2030. This document was adopted on March 21. Each objective of the Strategy includes actions aimed at bringing the Lubelskie closer to climate neutrality, such as:

- supporting solutions for increasing energy efficiency
- increasing the production and use of energy from renewable sources
- producing and developing of low and zero emission generation capacities

On the national level there is a Polish Hydrogen Strategy 2030 with an outlook until 2040. This is a strategic document of the Government that sets out the objectives for hydrogen economy development in Poland and the actions needed to achieve them.

Our Strategy involves hydrogen valleys/clusters, understood as centres of excellence for the implementation of the hydrogen economy, sector integration, industry climate transformation, and infrastructure construction. Lubelskie Voivodeship is a signatory of the letter of intent on the creation of the Hydrogen Cluster of Lubelskie. The aim is to create a project based on cooperation between business, science, local governments and non-governmental organizations to maximize the share of Polish production and resources in the implementation of hydrogen investments.

The development of hydrogen technologies (including green hydrogen) will help take steps towards a modern and climate-neutral economy.

1496/1500

#### D.6.1.2 General description of the policy instrument

Please name the policy instrument addressed (for Investment for jobs and growth goal programmes, please provide the name of the operational programme concerned).

Energy Development Program for the Lubelskie Voivodeship

56/150

Is this instrument an Investment for jobs and growth goal programme (i.e. national or regional operational programme)?

No

Please indicate the geographical scope of this instrument

Regional

Please select how the authority responsible for this policy instrument is involved in the project:

The authority responsible for this policy instrument is involved as...

Partner

Please select the authority responsible for this policy instrument.

PP06 Lubelskie Voivodeship

Please describe the main features of this policy instrument (e.g. objective, characteristics, priority or measure addressed).

v2 | Open

The Energy Development Program for the Lubelskie Voivodeship was adopted in 2009. This document translates national energy policy to the regional level, and it constitutes the basis of the regional energy policy implementation. The aim of the Energy Development Program for the Lubelskie Voivodeship is to assess the problems and needs, as well as to propose directions for the development of the energy sector in the Lubelskie region. The Program takes into account national energy and environmental policies and regional needs in reference to its economic development.

Some of the aspects included in the Program that are related to the topic of this project proposal are:

- The improvement of energy security in the region
- A better use of local energy sources, both fossil and renewable
- The improvement of the energy infrastructure in the region
- Reducing the negative impact of the energy sector on the environment
- To find a balance between centralized energy and distributed energy

992/1500

#### D.6.1.3 Expected policy improvement

What kind of improvement do you envisage for this instrument?

New projects financed by the instrument

No

0/1500

Change in the management of the instrument

Yes

Lubelskie Voivodeship is responsible for the elaboration, implementation and monitoring of the Energy Development Program for the Lubelskie Voivodeship. When it comes to changing the management of the instrument, the participation of the region in UNIFHY project will allow its authorities to prepare a well-coordinated approach at the regional level in building a hydrogen ecosystem in order to respond to the market needs and to climate commitments.

The Energy Development Program for the Lubelskie Voivodeship does not include the potential of hydrogen in the energy transition process. That is why it is necessary to elaborate a new approach towards building hydrogen economy in the region focusing on:

- Identifying the current conditions for the development of the energy sector, taking into account the uptake of an emerging technology such as hydrogen
- Determining the possible directions and roadmaps for the development of the energy sector in the Lubelskie Voivodeship
- Indicating areas of operation of conventional energy and renewable energy sources and the potential for transfer from one to another
- Defining activities that will help achieve climate neutrality in Lubelskie region.

1203/1500

Revision of the instrument itself

No



## D.6.2 Partner(s) addressing policy instrument 6

v2 | Open

Partner

PP06 Lubelskie Voivodeship

What are the partner's competences and experiences in the issue addressed by the project?

Lubelskie Voivodeship, as a regional authority, is responsible for elaborating, implementing and monitoring of the Energy Development Program for the Lubelskie Voivodeship, as well as its revision. Lubelskie Voivodeship is also responsible for the preparation and coordination of the Development Strategy for the Lubelskie Voivodeship until 2030.

The Voivodeship consistently takes up strategic activities in order to support the development of RES in the way to achieve climate neutrality. In order to increase efforts to decarbonize the energy sector, Lubelskie Voivodeship takes also part in new initiatives such as Hydrogen Cluster of Lubelskie. The mission of the Cluster is to establish a permanent cooperation network based on the transfer of knowledge, technology and innovative solutions.

Lubelskie Voivodeship has qualified staff in energy-related topics and is experienced in IE supporting better use of RES (Firespol, AgroRES – IE; Firece, Enes-Ce – Interreg Central Europe).

991/1000

How will the partner benefit from the cooperation? In case this partner plays a particular role in the project (e.g., responsible for a specific topic, for communication activities), please also indicate it here.

Since clean hydrogen solutions and technologies are key on the regional agenda, it is necessary to better use its potential in the energy transition process. Lubelskie will benefit from the international cooperation taking part in study visits and workshops with more advanced project partners, sharing good practices and learning how to improve its approach at regional level to design appropriate hydrogen policies.

This will allow to gain knowledge and will help to better define the role of the regional authority in supporting hydrogen deployment.

Additionally, Lubelskie intends to establish local stakeholder groups engaging actors from business, academia and local governments in order to exchange experiences and ideas. Those activities will facilitate the creation of hydrogen ecosystem in the region.

815/1000

In case the partner is involved in several Interreg Europe applications/ projects, please justify this multiple involvement.

In 2014-2020 Lubelskie Voivodeship took part in several Interreg Europe mainly related to low-carbon economy and research and innovation topics. Currently Lubelskie Voivodeship is involved as a partner in one Interreg Europe project REC4EU – Renewable Energy Communities for EU regions. The project was approved in the 1st call for proposals.

In this 2nd call, Lubelskie will apply under UNIFHY project, TOURISM4SDG project – Improving the effectiveness of tourism policy instruments for the SDG achievement and GreenHydra – Increase the uptake of green hydrogen in small industries and SMEs.

Although GreenHydra and UNIFHY will both tackle the subject of Hydrogen, different departments will be involved in each project, aiming to improve different policy instruments and with different perspectives.

Lubelskie has sufficient financial and staff resources to implement the project activities successfully, avoiding any double funding.

940/1000

### D.6.3 Stakeholder group relevant for policy instrument 6

v2 | Open

Please provide an indicative list of the most relevant stakeholders (i.e., name of the organisation concerned) to be involved in the project. It is recommended to have no more than 12 entries.

You have 6 entries.

Lublin University of Technology

31/300

Grupa Azoty Puławy Group

24/300

University of Life Sciences in Lublin

37/300

Lublin Science and Technology Park

34/300

Puławy Science and Technology Park

34/300

Organisation name 6: Regional Fund for Environmental Protection and Water Management in Lublin

94/300

#### D.6.4 Pilot action under policy instrument

v2 | Open

Is a pilot action proposed to improve this policy instrument?

No

#### E.1 Core phase (Exchange of experience)

## Semester 1 (Core phase)

### Exchange of experience

#### JOINT THEMATIC STUDIES & ANALYSES

##### - Interreg Good Practices Analysis (S1 and S2)

Partners will start the identification of Good Practices related to initiatives that support the uptake of an emerging technology such as hydrogen or other green gases. The objective is to transfer the knowledge and experience from those further advanced regions to the least developed areas with potential for improvement. Due to the innovative character of the topic, a joint analysis of best practices from regions outside of the consortium will be contemplated if necessary.

The activity, coordinated by LP01-AGENEX, will be developed during the Core Phase of the project. A template will be provided (M3) used to record the GPs that will be identified in each region and country, providing the core information for the learning process.

Every partner will compile a total of 2GPs.

#### INTERREGIONAL LEARNING & CAPACITY BUILDING

##### - Online Kick-off Meeting (Hosted by LP01, M1) – Defining the Learning Process.

All partners will participate in the online kick-off meeting, organized by LP1, starting the interregional cooperation.

The event will include a “Learning Strategy Workshop”. Learning activities will be peer-reviewed by the rest of the partnership and the quality unit (see C.4.), producing individual recommendations and setting a clear commitment.

The 1st Steering Committee Meeting (SCM1) will be held in the context of this event, focusing on the identification of the Management structure (AGENEX): appointment of the Steering Committee, Project coordination and Robust Quality Unit (RQU). Management guidelines will be shared and input from partners will feed the Project Management handbook.

12 staff participating: 2 staff per partner region (12)

##### - Project Management toolkit:

a) Project Management handbook (M3). A guide for the management of the project, including tasks, work plan and timeline, deadlines, administrative and financial obligations, meetings schedule, etc.

b) Quality Monitoring Plan (M6). The RQU will coordinate the quality evaluation for learning activities to ensure the robust quality of all learning activities. Questionnaires will be sent to partners and stakeholders participating in the learning activities to evaluate them at the end of every semester.

#### LOCAL POLICY LEARNING

##### - Creation of Local Stakeholders Group (All partners, M3)

Partners will gather a specific group of 15 key actors from the institutions identified in Part B, related to the addressed policy instruments and with competences on the project topic.

They will have an active role in the project: exchange of experiences and policy improvements. Representatives from the LSG will participate in interregional project activities (2 stakeholders per partner per IE) to ensure the organisation increases its capacity.

The LSG will meet semi-annually, in local stakeholder meetings or policy breakfasts to share the knowledge gathered at interregional level and the advances of Project Activities.

2997/3000

### Communication



(all partners, led by PP02)

- Dissemination and Exploitation Strategy

PP02, as the communication manager, will define the Dissemination and Exploitation Strategy to achieve the communication objectives, following the guidelines included in section C.6 Communication strategy. The document will establish the project indicators, main dissemination tasks, target groups, messages, and channels.

- Project website

The project website, provided by IE, will be customized by PP02, including content related to the project topic. Once the website is launched, partners will regularly provide news items and information to keep the website updated.

-Communication Tools

During the first semester, PP02 will collaborate with the IE comms team to design the project poster and customize the templates for the project activities.

- Newsletter

Design and distribution of the first Project newsletter among the list of stakeholders.

- Participation in one semestral Interreg Europe or PLP event.

990/1000

#### Management

Ongoing management activities to ensure smooth implementation and reporting of the project

#### N° of interregional policy learning events organised

1

#### N° of good practices identified

0

## Semester 2 (Core phase)

### Exchange of experience

#### JOINT THEMATIC STUDIES & ANALYSES

##### - Interreg Good Practices Analysis (S1 & S2)

The GP identification will carry on this Semester, complemented with a GP workshop during IE1 where partners will share their regional examples.

The most inspiring Good Practices will be uploaded to the Policy Learning Platform (6 Good Practices to be uploaded to PLP).

The GPs and other interesting examples identified will be compiled into a Guide. PP02 will be responsible for the elaboration and graphic design of the GP Guide to be published on the project website.

#### INTERREGIONAL LEARNING & CAPACITY BUILDING

##### - Interregional Event 1 (IE1) "Better Management. Improved Governance" - Extremadura (Spain) (Hosted by LP1, M7)

The activities developed during the IE1 will be moderated by the host partner, including:

##### - Thematic conference on general aspects of H2.

- Building capacity workshop. Presentation of the GPs identified by each partner, assessment of them interactively between staff and stakeholders and discussion on the conclusions. The evaluation will focus on those examples to improve governance and better management of the policy instruments.

- Study visits or presentations of local initiatives related to the promotion of green gases in Extremadura.

- Steering committee (SC2) This action will take place at the hand of the lead partner, and it will allow for a review of how each partner is dealing with the project.

People involved: 10 regional Stakeholders + 2 partners stakeholders + 2 staff per region.

Requirements: Room / IT equipment / Catering / Translation services / Transport.

##### - Learning strategy (all partners, M7)

After the input received by project partners during the "Learning Strategy Workshop" held in the context of the Kick-off Meeting, LP01-AGENEX will produce the final version of the Learning Strategy document. This document will provide a clear definition of learning activities to ensure interregional learning at 4 levels (individual, organizational, interregional and regional) and an integrated approach.

##### - Progress Meeting (online) (M11)

From now on, LP01-AGENEX will organize an online progress meeting at the end of every semester. Partners will share the progress on project activities and will report any policy improvements achieved, assuring the right implementation of the learning activities.

In this semester, the progress made through the Good Practices identification will be discussed.

People involved: 2 staff per partner; Requirements: online platform.

#### LOCAL POLICY LEARNING

##### First Local Stakeholder Meeting (LSM1) (All partners, M9)

Each partner will carry out one LSM (x6). The main actions carried out during it will be:

-Sharing lessons learnt during interregional activities.

-Evaluation of the potential of transfer for regional improvements.

-Gathering GPs from stakeholders.

People involved: 10 stakeholders + 2 staff; Requirements: Room / IT equipment / Catering

(all partners, led by PP02-Aalborg Municipality)

- Project Video. Presentation of UNIFHY project

PP02 will coordinate the elaboration of a video about the project: main objectives, presentation of project partners, target audience, benefits expected from cooperation, etc.

- Project Website

Update of the project website.

- Communication tools

Design and elaboration of communication tools by the media consultant: Leaflets, Posters, and project rollups.

- Project social profiles (Facebook, LinkedIn, Twitter):

The communication consultant will create and update Social profiles for the dissemination of the project.

- Interregional Event 1 Dossier

The host partner of the IE1 will elaborate a publishable dossier including relevant info about the activities held, profile of participants, topics tackled and conclusions.

- Press release

The host of the IE1 will prepare a press release related to the event.

- Newsletter

- Participation in one semestral Interreg Europe/PLP event.

993/1000

## Management

Ongoing management activities to ensure smooth implementation and reporting of the project

N° of interregional policy learning events organised

1

N° of good practices identified

2

## Semester 3 (Core phase)

### Exchange of experience

#### JOINT THEMATIC STUDIES & ANALYSES

##### - Interreg GP Analysis

Although the GP identification activity will be concentrated at the beginning of the project, partners will carry on with this task during the Core Phase of the project.

##### - Regional Self-Assessment (S3 and S4) (All partners, led by PP03-EASS)

Each partner will develop a regional self-assessment study (RSA) on the situation in their region regarding the policies supporting the development of a hydrogen ecosystem. The RSA will identify the barriers and challenges that are hindering green hydrogen development as well as the opportunities that the H2 and other green gases could bring in the energy transition.

PP03, coordinating this task, will establish a common methodology approach for the RSA providing a template to be followed by all partners and a guideline will be provided during the workshop that will take place this semester.

#### INTERREGIONAL LEARNING & CAPACITY BUILDING

##### - IE2 – “Hard-to-electrify industrial sectors”. Aalborg Municipality(Denmark) (Hosted by PP02, M14)

The activities developed during the IE2 will be moderated by the host partner, including:

- Thematic conference on “Hard-to-electrify industrial sectors”, dealing with industrial decarbonization.

- Building capacity workshop. 2nd round of GP presentations. Partners and stakeholders will evaluate the potential of transfer to their region and will select the most interesting GP suitable for the IE database (6).

- Study visits or presentations of local initiatives promoting green gases policies.

- Steering committee (SC3) This action will be led by the lead partner, and it will allow for a review of how each partner is dealing with the project. PP03 will establish RSA guidelines.

People involved: 10 regional Stakeholders + 2 partners stakeholders + 2 staff per region.

Requirements: Room / IT equipment / Catering / Translation services / Transport / experts

- Progress Meeting (online) (M18). During this meeting, partners will share the advances on the GP identifications, the RSA developments and the details of IE3.

#### LOCAL POLICY LEARNING

##### - Policy Breakfast (PB1) (All partners, M16).

This activity will take place as a complementary action with the LSM. It will be used as a tool to involve the associated policy authority when its needed by the partners.

The PB will revolve around the Good practice introduced during S1 and S2, and the potential to be transferred.

People involved: 3 partners staff + 3 associated policy authority staff + other relevant stakeholders

Requirement: Room / IT equipment / Catering

If the partner is a management authority, this meeting will be swapped with a LSM.

##### - Institutional Internal Meeting 1 (IIM1) (M18)

Exchange of experiences and knowledge among staff members from the same entity to transfer the interregional learning into the local one (from individual to organizational). GP identified during the IE1 and IE2 will be commented on and discussed.

People involved: 4-6 staff

(all partners, led by PP02-Aalborg Municipality)

- Project Website & Social Media

Regular updates of the project website and social profiles (PP02 and all partners). Partners will periodically provide project news related to UNIFHY topic for the website, stakeholders' activities, local improvements, etc. to distribute them on media.

- Communication tools

Updates of communication tools: printing copies of the brochure. All partners will print and distribute copies.

- Interregional Event 2 Dossier

The host partner of the IE2 will elaborate a publishable dossier including relevant info about the activities held, profile of participants, topics tackled, and conclusions.

- Press release

The host of the IE2 will prepare a press release related to the event.

- Newsletter

- Participation in one semestral Interreg Europe/PLP event.

842/1000

## Management

Ongoing management activities to ensure smooth implementation and reporting of the project

N° of interregional policy learning events organised

1

N° of good practices identified

2

## Semester 4 (Core phase)

### Exchange of experience

#### JOINT THEMATIC STUDIES & ANALYSES

##### - Interreg GP Analysis

Although the GP identification activity will be concentrated at the beginning of the project, partners will carry on with this task during the Core Phase of the project.

##### - Submission of the Regional Self-Assessment (M21)

Partners will finalize the Regional Self-Assessment report and deliver it by M21. Once the document is finished, conclusions will be drawn, and they will be the baseline to develop each region's policy improvements.

##### - Joint UNIFHY State of Art (S4 and S5) (All partners, PP03-EASS)

Based on the input by project partners after the knowledge gathered during previous semesters, on the Regional Self-Assessment and identification of GPs of every partner region, PP03 will coordinate the elaboration of a joint study on the State of the Art, analysing the barriers that are hindering green hydrogen development. The idea is to create a framework among the project partners, identifying the common problems and the potential for improvement of the consortium.

#### INTERREGIONAL LEARNING & CAPACITY BUILDING

##### - IE3 – “H2 for Transport” Moravian-Silesian Region (Czech Republic) (Hosted by PP04, M21)

The activities developed during the IE4 will be moderated by the host partner, including:

##### - Thematic conference on “Specifics of the green gases for Transport sector”.

- Building capacity workshop. Barriers, challenges, and opportunities. SWOT analysis of RSAs will be presented and commented on among participants, identifying the potential policy improvements in every partner region.

##### - Technical visits and presentations: Hydrogen network in Ostrava conurbation or others.

- Steering committee (SC3) This action will take place at the hand of the lead partner, and it will allow for a review of how each partner is dealing with the project. PP03 will explain how to approach the joint State of Art document.

People involved: 10 regional Stakeholders + 2 partners stakeholders + 2 staff per region.

Requirements: Room / IT equipment / Catering / Translation services / Transport / experts

- Progress Meeting (online) (M24). Partners will present the RSA advances, the local policy learning status and will prepare the content for the IE4.

#### LOCAL POLICY LEARNING

##### - Second Local Stakeholder Meeting (LSM2) (All partners, M24)

A LSM will be organized by each partner (x6) at the end of semester 4, with the participation of at least 10 stakeholders from the Local Stakeholder Group. The stakeholders that attended the online interregional event will present the learnings gathered to the group. Besides, partners will share the result of the RSA with their stakeholder community.

People involved: 10 stakeholders + 2 staff; Requirements: Room / IT equipment / Catering

2747/3000

### Communication

(all partners, led by PP02-Aalborg Municipality)

- Project Website & Social Media

Regular updates of the project website and social profiles (PP02 and all partners). Partners will periodically provide project news related to UNIFHY topic for the website, stakeholders' activities, local improvements, etc. to distribute them on media.

- Interregional Event 4 Dossier

The host partner of the IE3 will elaborate a publishable dossier including relevant info about the activities held, profile of participants, topics tackled, and conclusions.

- Press release

The host of the IE4 will prepare a press release related to the event.

- Newsletter

- Participation in one semestral Interreg Europe/PLP event.

707/1000

### Management

Ongoing management activities to ensure smooth implementation and reporting of the project

N° of interregional policy learning events organised

1

N° of good practices identified

2

# Semester 5 (Core phase)

Exchange of experience



## POLICY IMPROVEMENTS & MONITORING

### - Joint Learning Report (to be fed by all partners, draft M30)

Each partner will elaborate a Learning Report compiling the lessons learnt during the interregional exchange of experiences process linking them to specific policy improvements planned or already achieved during the core phase. This individual version per partner of this report should be the support document while reporting policy improvements. In case a partner has not achieved the policy improvement during the core phase, the Action Plan to be delivered in S6 should be based on the Learning Report.

PP05 will lead this task, providing a template to be used by each partner.

### - Definition of the draft Action Plan for Policy Instrument implementation (only partners that have not achieved a policy change by S5) (M30)

With the elaboration of the Learning Report, partners will be able to detect if the policy change has already been achieved or will be achieved during the core phase. If not, this semester partners should start defining the action plan to provide a draft by M30 following the guidelines settled in the workshop during IE4.

As the Joint Learning Report is linked to the AP development, the task leader of both activities will be the same, PP05.

## INTERREGIONAL LEARNING & CAPACITY BUILDING

### - Staff-exchange (S5 and S6)

If needed, the staff-exchange experience will allow partners the organization of a study visit to an inspiring good practice for their region improvements. This will be a bi-lateral activity between the host partner (owner of the GP) and the visiting one (interested in replication).

People involved: 2 host staff + 2 foreign staff.

Requirement: Room / IT equipment / Catering.

### - IE4 – “Other Low-Carbon gases” Waterford (Ireland) (Hosted by PP05, M27)

The activities developed during the IE4 will be moderated by the host partner, including:

- Thematic conference on “Other low-carbon gases”. Complementarity of RES.

Presentation of Joint SoA.

- Building capacity workshop. Policy improvements.

- Technical visits and presentations of local initiatives.

- Steering committee (SC5) This action will take place at the hand of the lead partner, and it will allow for a review of how each partner is dealing with the project. PP04 will present the joint learning report methodology and action plan guidelines.

People involved: 10 regional Stakeholders + 2 partners stakeholders + 2 staff per region.

Requirements: Room / IT equipment / Catering / Transport / experts

- Progress Meeting (online) (M30). Learning Report, policy improvements and action plans.

## LOCAL POLICY LEARNING

### - Policy Breakfast (PB2) (All partners, M28)

People involved: 3 partners staff + 3 associated policy authority staff + other relevant stakeholders.

Requirement: Room / IT equipment / Catering

If the partner is a managing authority, this meeting will be swapped with a LSM.

### - Institutional Internal Meeting 2 (IIM2) (M30)

People involved: 4-6 staff

(all partners, led by PP02-Aalborg Municipality)

- Project Website & Social Media

Regular updates of the project website and social profiles (PP02 and all partners). Partners will periodically provide project news related to UNIFHY topic for the website, stakeholders' activities, local improvements, etc. to distribute them on media.

- Interregional Event 4 Dossier

The host partner of the IE4 will elaborate a publishable dossier including relevant info about the activities held, profile of participants, topics tackled, and conclusions.

- Press release

The host of the IE4 will prepare a press release related to the event.

- Newsletter

- Participation in one semestral Interreg Europe/PLP event.

707/1000

#### Management

Ongoing management activities to ensure smooth implementation and reporting of the project

#### N° of interregional policy learning events organised

1

#### N° of good practices identified

0

## Semester 6 (Core phase)

Exchange of experience

## POLICY IMPROVEMENTS & MONITORING

### - Final Action Plan (M33)

Partners pending to achieve the policy change will deliver the final Action Plan this semester with the aim of improving the regional policies to support the uptake of green hydrogen to decarbonize Europe. The document will include the policy instrument addressed, how it is expected to be influenced, the main actions, steps, actors involved, timeline, costs and funding sources.

### - Common methodology for the monitoring actions during the follow-up phase (M35).

A methodology for monitoring will be defined for the consortium, coordinated by LP01-AGENEX, assuring that a proper analysis of impacts is carried out during the implementation of each policy improvement and every action plan.

### - Delivery of the Joint Learning Report (all partners, M36)

From the input fed by partners, PP05 will draft a Joint Learning Report selecting the main lessons learnt from UNIFHY during the core phase and identifying opportunities for improvement in the regions.

## INTERREGIONAL LEARNING & CAPACITY BUILDING

### - Staff-exchange (S5&S6)

### - IE5 – “Integrating H2 in policy” Kalmar County (Sweden) (Hosted by PP03, M33)

The act. developed during the IE4 will be moderated by the host partner, including:

- Thematic conference on “Energy Storage using H2”. Policy improvements presentations. Learning Report conclusions.

- Building capacity workshop. Strategies and regional approaches.

- Visit to the refueling station, and hydrogen production in Oskarshamn.

- Steering committee (SC6) This action will take place at the hand of the lead partner, and it will allow for a review of how each partner is dealing with the project. PP05 will guide partners on the joint learning report and AP design.

People involved: 10 regional Stakeholders + 2 partners stakeholders + 2 staff per region.

Requirements: Room / IT equipment / Catering / Translation services / Transport / experts

### - Quality Monitoring Review (M36)

As part of the Quality Monitoring Methodology, the Robust Quality Unit will meet to review the feedback received on the questionnaires received by participants in learning activities every semester. A report will be drafted compiling the feedback, and positive and negative evaluations to be taken into account for the quality improvement of follow-up phase activities.

- Progress Meeting (online) (M36). Learning Report, policy improvements and action plans.

## LOCAL POLICY LEARNING

### - Public Local Stakeholders Event – (LSM3) (All partners, M35)

Each project partner (x6) will celebrate a public local event with stakeholders and a broader audience (25 attendants) to share results achieved so far in each region and/or the actions included in the Action Plan and their expected impact.

(room rentals, catering)

### - Increased Capacity Monitoring (M36)

Each partner sends the questionnaires to the organisations involved in the Project's lifetime to monitor and evaluate their increased capacity thanks to the project learning activities.

(all partners, led by PP02-Aalborg Municipality)

- Project Website & Social Media

Regular updates of the project website and social profiles (PP02 and all partners). Partners will periodically provide project news related to UNIFHY topic for the website, stakeholders' activities, local improvements, etc. to distribute them on media.

- Good Practices Guide (M36)

PP02 will be responsible for compiling the innovative solutions identified during the Core Phase and the elaboration and graphic design of the guide to be published on the project website.

- Interregional Event 5 Dossier

The host partner of the IE5 will elaborate a publishable dossier including relevant info about the activities held, profile of participants, topics tackled, and conclusions.

- Press release

The host of the IE5 will prepare a press release related to the event.

- Newsletter

- Participation in one semestral Interreg Europe/PLP event.

- Revision of the dissemination strategy. Adaptation to follow-up phase.

1000/1000

#### Management

Ongoing management activities to ensure smooth implementation and reporting of the project

#### N° of interregional policy learning events organised

1

#### N° of good practices identified

0

#### N° of pilot actions developed jointly and implemented in projects

0

## E.2 Follow-up phase

## Semester 7 (Follow-up phase)

Monitoring results of main phase and, if applicable, exchange of experience

### POLICY IMPROVEMENTS & MONITORING

- Implementation of Action Plans and Monitoring of Policy Improvements (S7 and S8)

Each partner will carry on with the implementation of the action plans and the monitoring of the policy improvements following the monitoring methodology designed and approved in S6. The methodology is based on a shared excel file, a tool where partners will update their progress and achievements improving their policies, and allowing the LP the possibility to understand each partner's situation. Partners will report bi-annually to LP.

### INTERREGIONAL LEARNING & SHARING RESULTS

- IE6 – “Monitoring impact” (online) (Hosted by PP05, M39)

This event will be held online and organised by the hosting partner. The activities developed will be:

- Workshop. Monitoring actions and policy improvements. Measuring the project impact.

Partners and stakeholders will comment on the improvement of the policy instrument, the impact on the territory, and the implementation of actions. It will be focused on the advances and achievements but also on the problems encountered. Tips and recommendations to overcome them will be suggested.

- SCM6 (online) (M38) This action will take place at the hand of the lead partner, and it will allow the revision of the policy improvement development.

Requirement: External support for the organization of the event: Online platform, IT equipment, Expert, elaboration of short videos.

- Progress Meeting (online) (M42) Partners will share the advances in project activities and will report any policy improvements achieved.

### LOCAL POLICY LEARNING

- Policy Breakfast (PB3) (All partners, M41)

This activity will take place as a complementary action with the LSM. It will use as a tool to involve the associated policy authority when its needed by the partners. The procedure used will be round tables and working meetings.

The PB will revolve around core phase achievements.

If the partner is a management authority, this meeting will be swapped with a LSM.

People involved: 3 partners staff + 3 associated policy authority staff + other relevant stakeholders

Requirement: Room / IT equipment / Catering

2158/3000

Communication

(all partners, led by PP02-Aalborg Municipality)

- Project Video (M42)

Elaboration of Video 2, Presentation of UNIFHY project results. PP02 will coordinate the elaboration of a video about the project results. The video will focus on the policy instruments' influence, the policy changes, inspiration, expected territorial impact and the amount of funding mobilized.

- Project Website & Social Media

Regular updates of the project website and social profiles (PP02 and all partners). Partners will periodically provide project news related to UNIFHY topic for the website, stakeholders' activities, local improvements, etc. to distribute them on media.

- Interregional Event 6 Dossier

The host partner of the IE6 will elaborate a publishable dossier including relevant info about the activities held, profile of participants, topics tackled, and conclusions.

- Participation in one semestral Interreg Europe/PLP event.

924/1000

### Management

Ongoing management activities to ensure smooth implementation and reporting of the project

### N° of interregional policy learning events organised

1

## Semester 8 (Follow-up phase)

Monitoring results of main phase and, if applicable, exchange of experience

### POLICY IMPROVEMENTS & MONITORING

#### - Monitoring and reporting of Policy Improvements (S8)

Project partners will carry on monitoring the implementation of the proposed actions and the development of the policy improvements.

In order to do that, stakeholders will remain engaged during this stage, with fluent communication and informal meetings.

Partners will report any advances in the Monitoring Methodology that will be reviewed by LP on a semestral basis.

### INTERREGIONAL LEARNING & SHARING RESULTS

#### - UNIFHY Final Conference in Lublin (Hosted by PP06, M45)

The Final Conference is a high-level political dissemination event to present project results at the regional level. Apart from the intervention of some keynote speaker expert on the field of the project, partners or stakeholders in charge of the policy instrument addressed will share the achievements of the regions, focusing on how the project has influenced their region, where the inspiration comes from, the territorial impact and amount of funding influenced.

Project Video 2 will be disseminated during the event.

- Steering committee (SC8) This action will take place at the hand of the lead partner, and it will allow for a review of how each partner is dealing with the project.

People involved: 10 regional Stakeholders + 2 partners stakeholders + 2 staff per region + broader audience (50-60 participants in total)

Requirements: Room / IT equipment / Catering / Transport / Speakers / Translation services

#### - Progress Meeting (online) (M48)

As usual, LP will arrange a progress meeting at the end of every semester. In this case, LP will provide guidance for the project closure and will compile the last advances of the project partners improvements.

1725/3000

Communication



(all partners, led by PP02-Aalborg Municipality)

- UNIFHY Final Conference

The event will be a high-level political event held at the end of the project (M44) in Lublin (Poland) hosted by PP06 gathering around 50 participants to disseminate project results in every region. Project Results videos (video 2) will be shared during the event.

- Project Website & Social Media

Regular updates of the project website and social profiles (PP02 and all partners). Partners will periodically provide project news related to UNIFHY topic for the website, stakeholders' activities, local improvements, etc. to distribute them on media.

- News item. UNIFHY Project in a Nutshell

PP02 will coordinate the elaboration of a final news item compiling the main regional achievements or potential impact of the project.

- Press release

The host of the Final Conference will prepare a press release related to the event.

- Final Newsletter

- Participation in one semestral Interreg Europe/PLP event.

989/1000

#### Management

Ongoing management activities to ensure smooth implementation and reporting of the project

#### N° of interregional policy learning events organised

1

## F Project budget

[v2 | Open](#)

### F.1 Budget breakdown per cost category and partner

Partner †	Country	Preparation costs	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Infrastructure and works	TOTAL BUDGET
LP01 Consortium Extremadura Energy Agency	Spain (España)	17,500.00	195,000.00	29,250.00	29,250.00	40,250.00	1,500.00	0.00	312,750.00
PP02 Aalborg Municipality	Denmark (Danmark)	0.00	180,000.00	27,000.00	27,000.00	68,500.00	0.00	0.00	302,500.00
PP03 Energy Agency Southern Sweden	Sweden (Sverige)	0.00	140,000.00	21,000.00	21,000.00	43,750.00	0.00	0.00	225,750.00
PP04 Moravian-Silesian Region	Czech Republic (Česko)	0.00	120,060.00	18,009.00	18,009.00	36,700.00	0.00	0.00	192,778.00
PP05 South East Energy Agency	Ireland (Éire/Ireland)	0.00	178,000.00	26,700.00	26,700.00	45,500.00	0.00	0.00	276,900.00
PP06 Lubelskie Voivodeship	Poland (Polska)	0.00	102,000.00	15,300.00	15,300.00	31,750.00	0.00	0.00	164,350.00
<b>Total</b>		<b>17,500.00</b>	<b>915,060.00</b>	<b>137,259.00</b>	<b>137,259.00</b>	<b>266,450.00</b>	<b>1,500.00</b>	<b>0.00</b>	<b>1,475,028.00</b>
<b>% of Total budget</b>		<b>1.2%</b>	<b>62.0%</b>	<b>9.3%</b>	<b>9.3%</b>	<b>18.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>100.0%</b>

\* Real cost, no flatrate

## F.2 External expertise and services

v2 | Open

Item #	Description	Contracting partner	Type of costs	TOTAL
1		LP01 Consortium Extremadura Energy Agency	Management – expenditure control	6,500.00
2	interregional partner meetings, regional stakeholder group meetings	LP01 Consortium Extremadura Energy Agency	Exchange of experience – meetings	10,000.00
3	associated policy responsible authority, stakeholders	LP01 Consortium Extremadura Energy Agency	Exchange of experience – travel and accommodation external bodies	13,000.00
4	Cost for external support for Good Practices analysis and the Regional Self-Assessment document. It includes fieldwork, analysis, research work and document elaboration. (1,5exp/15days)	LP01 Consortium Extremadura Energy Agency	Exchange of experience – external support	10,000.00
5	Cost for printing brochures and project poster.	LP01 Consortium Extremadura Energy Agency	Communication – material	750.00
6		PP02 Aalborg Municipality	Management – expenditure control	18,000.00
7	interregional partner meetings, regional stakeholder group meetings	PP02 Aalborg Municipality	Exchange of experience – meetings	9,000.00
8	associated policy responsible authority, stakeholders	PP02 Aalborg Municipality	Exchange of experience – travel and accommodation external bodies	13,000.00
9	Cost for external support for Good Practices analysis and the Regional Self-Assessment document. It includes fieldwork, analysis, research work and document elaboration. 13000€ (1exp/15days) / Cost for the elaboration of the Good Practice Guide.7000€ (1 exp/10days)	PP02 Aalborg Municipality	Exchange of experience – external support	20,000.00
10	Costs for printing brochures and project poster.500€ Elaboration of project video 1: Presentation of the project. 4000€ Elaboration of project video 2: Presentation of project results. 4000€	PP02 Aalborg Municipality	Communication – material	8,500.00
11	interregional partner meetings, regional stakeholder group meetings	PP03 Energy Agency Southern Sweden	Exchange of experience – meetings	11,000.00
			<b>TOTAL</b>	<b>266,450.00</b>

Item #	Description	Contracting partner	Type of costs	TOTAL
12	associated policy responsible authority, stakeholders	PP03 Energy Agency Southern Sweden	Exchange of experience – travel and accommodation external bodies	12,000.00
13	Cost for external support for Good Practices analysis and the Regional Self-Assessment document. It includes fieldwork, analysis, research work and document elaboration. 12000€ (1,5exp/10days) / Cost for external support for the elaboration of the Joint SoA. It includes research work, compilation of partners' info, document elaboration and graphic design.8.000€ (1exp/10days)	PP03 Energy Agency Southern Sweden	Exchange of experience – external support	20,000.00
14	Costs for printing brochures and project poster	PP03 Energy Agency Southern Sweden	Communication – material	750.00
15	interregional partner meetings, regional stakeholder group meetings	PP04 Moravian-Silesian Region	Exchange of experience – meetings	8,700.00
16	associated policy responsible authority, stakeholders	PP04 Moravian-Silesian Region	Exchange of experience – travel and accommodation external bodies	12,000.00
17	Cost for external support for Good Practices analysis and the Regional Self-Assessment document. It includes fieldwork, analysis, research work and document elaboration. (1exp/20days)	PP04 Moravian-Silesian Region	Exchange of experience – external support	15,000.00
18	Costs for printing brochures and poster	PP04 Moravian-Silesian Region	Communication – material	1,000.00
19		PP05 South East Energy Agency	Management – expenditure control	8,500.00
20	interregional partner meetings, regional stakeholder group meetings	PP05 South East Energy Agency	Exchange of experience – meetings	11,000.00
21	associated policy responsible authority, stakeholders	PP05 South East Energy Agency	Exchange of experience – travel and accommodation external bodies	13,000.00
22	Cost for external support for Good Practices analysis and the Regional Self-Assessment document. It includes fieldwork, analysis, research work and document elaboration. (1exp/15days)	PP05 South East Energy Agency	Exchange of experience – external support	12,000.00
23	Costs for printing brochures and project poster	PP05 South East Energy Agency	Communication – material	1,000.00
24	interregional partner meetings, regional stakeholder group meetings	PP06 Lubelskie Voivodeship	Exchange of experience – meetings	4,000.00
			<b>TOTAL</b>	<b>266,450.00</b>

Item #	Description	Contracting partner	Type of costs	TOTAL
25	associated policy responsible authority, stakeholders	PP06 Lubelskie Voivodeship	Exchange of experience – travel and accommodation external bodies	12,000.00
26	Cost for external support for Good Practices analysis and the Regional Self-Assessment document. It includes fieldwork, analysis, research work and document elaboration. (1 exp/15days)	PP06 Lubelskie Voivodeship	Exchange of experience – external support	9,000.00
27	regional and interregional dissemination events	PP06 Lubelskie Voivodeship	Communication – events	6,000.00
28	Costs for printing brochures and project poster	PP06 Lubelskie Voivodeship	Communication – material	750.00
			<b>TOTAL</b>	<b>266,450.00</b>

# F.3 Equipment

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Item #	Description	Contracting partner	Type of costs	TOTAL
1	e.g. Computer/laptop, software licences	LP01 Consortium Extremadura Energy Agency	Office Equipment	1,500.00
			TOTAL	1,500.00

# F.4 Infrastructure and works

v2 | Open

Create a pilot action in the *policy instrument* section to add entries to "Infrastructure and works".

Item ↑	Description	Contracting partner	Type of costs	TOTAL
			TOTAL	0.00

## F.5 Project budget per co-financing source - breakdown per partner

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Partner †	Country	Total	ERDF	ERDF/NO rate (%)	Norwegian	Partner contribution from public sources	Partner contribution from private sources	Total partner contribution
LP01 Consortium Extremadura Energy Agency	Spain (España)	312,750.00	250,200.00	80.0%	0.00	62,550.00	0.00	62,550.00
PP02 Aalborg Municipality	Denmark (Danmark)	302,500.00	242,000.00	80.0%	0.00	60,500.00	0.00	60,500.00
PP03 Energy Agency Southern Sweden	Sweden (Sverige)	225,750.00	180,600.00	80.0%	0.00	45,150.00	0.00	45,150.00
PP04 Moravian-Silesian Region	Czech Republic (Česko)	192,778.00	154,222.40	80.0%	0.00	38,555.60	0.00	38,555.60
PP05 South East Energy Agency	Ireland (Éire/Ireland)	276,900.00	193,830.00	70.0%	0.00	0.00	83,070.00	83,070.00
PP06 Lubelskie Voivodeship	Poland (Polska)	164,350.00	131,480.00	80.0%	0.00	32,870.00	0.00	32,870.00
<b>Total</b>		<b>1,475,028.00</b>	<b>1,152,332.40</b>	<b>0.0%</b>	<b>0.00</b>	<b>239,625.60</b>	<b>83,070.00</b>	<b>322,695.60</b>



## F.6 Spending plan

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### Core phase

Partner †	Preparation costs	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	TOTAL BUDGET
LP01 Consortium Extremadura Energy Agency	17,500.00	33,500.00	38,900.00	35,700.00	36,200.00	35,700.00	46,700.00	312,750.00
PP02 Aalborg Municipality	0.00	31,500.00	38,600.00	37,000.00	35,100.00	41,600.00	48,600.00	302,500.00
PP03 Energy Agency Southern Sweden	0.00	22,750.00	25,650.00	25,900.00	26,150.00	37,650.00	39,250.00	225,750.00
PP04 Moravian-Silesian Region	0.00	19,510.00	22,350.00	22,850.00	25,450.00	29,850.00	30,909.00	192,778.00
PP05 South East Energy Agency	0.00	29,925.00	33,025.00	33,525.00	33,525.00	41,425.00	40,025.00	276,900.00
PP06 Lubelskie Voivodeship	0.00	16,575.00	19,475.00	19,975.00	19,725.00	24,475.00	24,475.00	164,350.00
<b>Total</b>	<b>17,500.00</b>	<b>153,760.00</b>	<b>178,000.00</b>	<b>174,950.00</b>	<b>176,150.00</b>	<b>210,700.00</b>	<b>229,959.00</b>	<b>1,475,028.00</b>
% of Total budget	1.2%	10.4%	12.1%	11.9%	11.9%	14.3%	15.6%	100.0%

### Follow-up and closure phase

Partner †	Semester 7	Semester 8 and closure	TOTAL BUDGET
LP01 Consortium Extremadura Energy Agency	33,100.00	35,450.00	312,750.00
PP02 Aalborg Municipality	36,000.00	34,100.00	302,500.00
PP03 Energy Agency Southern Sweden	23,250.00	25,150.00	225,750.00
PP04 Moravian-Silesian Region	19,950.00	21,909.00	192,778.00
<b>Total</b>	<b>161,800.00</b>	<b>172,209.00</b>	<b>1,475,028.00</b>
% of Total budget	11.0%	11.7%	100.0%

<b>Partner ↑</b>	<b>Semester 7</b>	<b>Semester 8 and closure</b>	<b>TOTAL BUDGET</b>
PP05 South East Energy Agency	32,425.00	33,025.00	276,900.00
PP06 Lubelskie Voivodeship	17,075.00	22,575.00	164,350.00
<b>Total</b>	<b>161,800.00</b>	<b>172,209.00</b>	<b>1,475,028.00</b>
<b>% of Total budget</b>	<b>11.0%</b>	<b>11.7%</b>	<b>100.0%</b>

## Partners

### LP01 Consortium Extremadura Energy Agency

Please upload a partner declaration.

### PP02 Aalborg Municipality

Please upload a partner declaration.

### PP03 Energy Agency Southern Sweden

Please upload a partner declaration.

### PP04 Moravian-Silesian Region

Please upload a partner declaration.

### PP05 South East Energy Agency

Please upload a partner declaration.

### PP06 Lubelskie Voivodeship

Please upload a partner declaration.

## Associated policy authorities

### Directorate General for Industry, Energy and Mines - Regional Government of Extremadura

Please upload a partner declaration.

### Region Kalmar County

Please upload a partner declaration.

### Waterford City and County Council

Please upload a partner declaration.