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WESHARE

D4.1 Comparative analysis of the current practice

Empowering businesses in Europe to
develop energy community models
for a successful energy transition

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#WESHARE

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Table of Acronyms

CEC	Citizens Energy Community
CEP	Citizens Energy Pact
CET	Clean Energy Transition
CINEA	Climate, Infrastructure and Energy executive Agency
CSC	Collective Self-Consumption
DSO	Distribution System Operator
EC	Energy Community
ECR	Energy Communities Repository
EIB	European Investment Bank
ELENA	European Local Energy Assistance
FEDARENE	Federation of Agencies and Regions for Energy and the Environment
GHG	Green House Gasses
HIW	Handel en Industrie Werkt
IEMD	Internal Electricity Market Directive
INJ	Injection
REC	Renewable Energy Community
RED	Renewable Energy Directive
P2P	Peer to Peer
POM	Provincial Development Company
PV	Photo Voltaic
VPPA	Virtual Power Purchase Agreement
VREG	Flemish Energy Regulator
WP	Work Package

Deliverable Review table

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Executive Summary

This document provides an in-depth analysis of the current practices on energy communities within business parks. The existing key players focus on the citizen-led approach for energy communities based on collective ownership and social inclusion. They have published a number of relevant key documents and reports supporting the initiatives in business parks. These documents provide relevant best practices for use in the WESHARE approach.

The Member States of the participating demos provide a variety of public data on GHG emissions, data on SMEs and if available data on existing ECs. The CEC HIW is operational since March 2023 and provides the necessary data on the adopted framework and achieved results.

Background

WESHARE project

WESHARE supports the Clean Energy Transition (CET) of European business parks, by fostering energy collaborative approaches among companies. The consortium develops a full package of knowledge-based tools that provide insight into the energy collaboration potential of business parks. Unlocking the business parks energy transition, partners develop an innovative and scalable co-operative set of solutions, enabling the energy communities' set-up, the flexibility, etc. for making business areas less fossil-energy dependent and thus less pollutant in terms of carbon emissions.

Objective WP 4

The objective of WP 4 is to develop a set of peer-learning contents and materials for feeding the peer-learning Program of WP 5. WP 4 aims to provide content to:

- capacitate businesses to develop “energy transition roadmaps”;
- support businesses to implement and manage ECs
- build trust, facilitate transparency on energy security and liability;
- establish locally applicable indicators and transfer of good practices;
- Enhance businesses’ capacity to make informed decisions, improve procurement techniques, and stimulate innovative market transformation.

Description D 4.1

The first deliverable in WP 4 is a report with a benchmark of the current practices on EC establishment, including energy performance data, CO² emission, policy planning measures, stakeholders, community sectors, type buildings and social data. The report will identify available data (open data, distributed repositories) to support the development of peer learning content for capacitating efficient energy cooperation activities aiming at engaging businesses in the establishment of EC.

Introduction

Purpose and scope of the report

The purpose of the report is to provide a relevant public data in support of the development of the peer-learning content for the replication program. The reports list the main actors on the development of ECs, identifies the relevant public data in the member states of the demo's and provides the available data of an operational EC in Flanders.

Key players on ECs in the EU

The development of energy communities (ECs) in Europe is supported by several key actors, each with a distinct and complementary role. Together, they shape policy, provide technical assistance, and build an ecosystem that enables citizen and community-led energy initiatives to thrive.

The EU Climate, Infrastructure and Energy executive Agency (CINEA) plays a key role in supporting the development of **energy communities** as part of its broader mission to implement EU programs under the European Green Deal. Through initiatives like **Horizon Europe**, the **LIFE program**, and the **Innovation Fund**, CINEA finances research, demonstration projects, and local initiatives that empower citizens, cooperatives, and municipalities to produce, share, and manage renewable energy collectively. By funding innovative governance models, technical solutions, and capacity-building efforts, CINEA helps scale up energy communities as essential drivers of a just, inclusive, and decentralised energy transition across Europe.

REScoop.eu¹ is the European Federation of Renewable Energy cooperatives, representing over 2,500 local initiatives and more than 2 million citizens. It is the leading advocate for energy democracy in Europe, actively shaping EU legislation such as the Renewable Energy Directive (RED II) and the Internal Electricity Market Directive (IEMD). REScoop.eu supports grassroots cooperatives through policy advocacy, practical toolkits, training, and peer learning, helping communities launch and manage energy projects based on democratic ownership.

Since this year Rescoop.eu coordinates the EU funded European Energy Communities Facility ² a EU funded project that aims to empower and support the development of EC across Europe. The facility is supported by a network of national experts supporting initiatives in the respective member states. This project focuses on the support for citizens-driven initiatives.

FEDARENE³ (European Federation of Agencies and Regions for Energy and the Environment) represents a network of regional and local energy and climate agencies. It plays a pivotal role in the territorial implementation of energy communities by supporting local public authorities with policy development, coordination, and experiences exchange. FEDARENE bridges EU policy with regional action and reinforces the capacity of local administrations to enable energy communities on the ground.

¹ <https://www.rescoop.eu/>

² <https://energycommunitiesfacility.eu/>

³ <https://fedarene.org/>

Energy Cities⁴ is the European association of local authorities leading the energy transition. Representing over 1,000 municipalities across Europe, Energy Cities empowers cities to act as enablers or co-developers of energy communities. It advocates for regulatory frameworks that give cities a proactive role in local energy systems and showcases best practices where municipalities support or co-invest in community-led projects. Through EU projects and policy advocacy, Energy Cities ensures that local governments are fully engaged in the citizen-driven energy transition.

The Energy Communities Repository (ECR)⁵ was a European Commission initiative active from 2022 to 2024. It served as the EU's institutional platform for supporting emerging energy communities, offering technical assistance, case studies, legal guidance, and mapping tools. While the initiative has ended, its outputs remain available as valuable resources for local stakeholders and policymakers seeking to develop energy communities.

These three actors—REScoop.eu, FEDARENE, and Energy Cities— and the results of the ECR together provide a comprehensive foundation for the growth of energy communities in Europe. They contribute from different angles: grassroots mobilization, technical guidance, regional implementation, and municipal facilitation. Their joint efforts are essential for ensuring that energy communities are not only technically and financially viable but also socially inclusive and democratically governed—core pillars of the European Green Deal and the future energy system.

Specificity of Businesses

While the EU's key advisors primarily focus on citizen-led energy communities rooted in democratic ownership and social inclusion, energy initiatives in business parks often follow a different logic. These business-oriented projects typically involve contractual collaborations between companies with a focus on cost reduction, energy efficiency self-sufficiency and self-consumption. Unlike citizen energy communities, which emphasize participatory governance ('one member, one vote') and local value creation, ECs in business parks are generally driven by commercial interests, scalability, and return on investment. As such, they often fall under Collective Self-Consumption (CSC) schemes rather than Renewable Energy Communities (REC) or Citizen Energy Communities (CEC) as defined by EU law. National translations of the EU directives often not allow CEC or RECs to create profit for individual members, but should be shared or re-invested in the community. This distinction is crucial: while both models contribute to the energy transition, they require different support structures, regulatory treatment, and governance models.

Available public data

Energy Community platform⁶

The Energy Community Platform is a one-stop solution for everything about community energy. There are many useful tools and resources on the internet to help citizens set up an energy community. But they are scattered across many different websites. Following the work done by Munster Technological University a few years ago, REScoop.eu, the European federation of citizen energy cooperatives, teamed up with several EU projects to make things easier for you and compile all resources in one single place: the Energy Community Platform.

⁴ <https://energy-cities.eu/>

⁵ (archived)

⁶ <https://energycommunityplatform.eu/>

The Energy Community Platform offers a wide range of free tools and resources—mostly developed through EU-funded projects—to support community energy initiatives at any stage. These include a searchable resource catalogue, a self-assessment maturity test to identify strengths and development needs, an interactive map showcasing energy communities across Europe, and access to a network of experts for professional guidance. The platform is continuously updated, and users are encouraged to contribute new resources via a submission form.

EU Energy Communities Repository

The EU Energy Communities Repository is a support platform initiated by the European Commission to help local actors—such as municipalities, cooperatives, and citizen groups—establish and grow energy communities. It serves as a central hub for practical guidance, legal and regulatory insights, technical toolkits, and best practices, aiming to empower citizens to actively participate in the energy transition.

The platform contains two main reports to help the EU member states in their implementation process of the EU legal framework for renewable and citizen energy communities.

The ***“barriers and drivers report”***⁷ analyzes the main factors that either hinder or support the development of energy communities in EU Member States. It explores a range of challenges, including legal and regulatory barriers such as complex permitting procedures and limited grid access, as well as financial obstacles like insufficient funding and the absence of tailored support schemes. In addition, the report highlights social and cultural drivers—such as citizen engagement and trust in local governance—that can positively influence the growth of energy communities. Through comparative analysis across countries, it identifies where policy environments are more supportive, with the aim of informing EU and national policymakers on how to create a more enabling framework for citizen-led energy initiatives.

The ***“roadmap to developing a policy and legal framework that enables the development of energy communities”***⁸ is a practical guidance report to help policymakers align national legislation with the EU’s Clean Energy Package. It provides a step-by-step approach for defining RECs and CECs in national law, ensuring fair market access, grid connection, and tailored support schemes. It offers checklists and policy tools to support the removal of legal barriers and promote citizen-led energy initiatives as part of broader energy transition strategies.

Next to the two reports, different guidance documents support the future initiatives for developing REC and CEC in the member states:

The ***“Energy Sharing for Energy Communities – Reference Guide”***⁹ provides practical guidance on how energy communities can implement energy sharing arrangements within the existing EU legal framework. It explains the technical, legal, and organizational aspects of energy sharing, including how shared renewable electricity can be generated, distributed, and allocated among members using smart metering and digital platforms. The guide outlines key design elements such as allocation rules, billing models, and regulatory requirements, and highlights barriers like grid access limitations and administrative complexity.

⁷ https://energy-communities-repository.ec.europa.eu/system/files/2023-10/barriers_and_drivers_report_oct2023.pdf

⁸ https://energy-communities-repository.ec.europa.eu/system/files/2023-09/roadmap_policy_legal_frameworks_sep2023.pdf

⁹https://energy-communities-repository.ec.europa.eu/energy-sharing-energy-communities-reference-guide_en

It also features real-world examples from Member States and offers recommendations for policymakers to enable fair, accessible, and citizen-driven energy sharing across Europe.

The “**Setting up community energy one-stop-shops**”¹⁰ is an essential tool to create your own energy community one-stop-shop defined as an organization at national, regional or local level that provides a range of services to energy communities in order to help them overcome barriers in the process of setting up their organization and/or projects at different stages of the process.

Next to these reports and guidance documents the repository provides 3 main maps:

- The **EU Policy map** providing a country fiche with an overview of the definition(s) per member state, as well as eventual rights and obligations, enabling framework, support schemes and assessment of barriers and potential for energy communities.
- The map of **energy communities’ initiatives** includes a non exhaustive list of both CEC and REC across the members states.
- The map of **energy communities’ case studies** provides a selection of energy communities and information about their motivations, activities, governance model, challenges, and social impacts.

FEDARENE¹¹

FEDARENE publishes a wide range of materials to support sustainable energy and environmental action across Europe. Their flagship annual brochure, *Sustainable Regions in Action*, highlights innovative regional projects, while policy briefs and position papers provide strategic recommendations on topics like social climate plans and EU budget priorities. They also produce implementation and survey reports, such as the *Covenant Supporters Implementation Report*, and project-specific studies from EU-funded initiatives like ENERGIZE and PROSPECT+. Best-practice brochures focus on key areas including carbon reduction and climate adaptation. In addition, FEDARENE offers practical toolkits and deliverables, such as the *Regio1st* planning manual. All publications can be explored through the Publications section of their website, where they are sorted by topic, project, and document type. As a part of the Community Power coalition, FEDARENE has released recently a position paper outlining key demands for the upcoming Citizens Energy Package (CEP)¹²

Energy Cities¹³

Energy Cities produces a wide range of documents to support local energy transitions across Europe. These include practical guidelines and how-to guides—such as those helping cities support renewable energy communities—alongside strategic reports like *Cities heading towards 100% renewable energy by controlling their consumption*. They also publish detailed case studies on financing mechanisms, for example through ELENA–EIB-supported projects in cities like Paris, Barcelona, Bristol, and Brussels. Additionally, Energy Cities provides toolkits and template packs for business models, stakeholder engagement, and power purchase agreements, such as those developed under the LIFE-Loop project. Their resource library also includes monitoring frameworks and sector-specific materials that offer insight and support for EU-funded initiatives.

¹⁰ <https://energy-communities-repository.ec.europa.eu/system/files/2023-11/Setting%20Up%20Community%20Energy%20One-Stop-Shops.pdf>

¹¹ [Publications - Fedarene](#)

¹² [Powering communities: How to deliver a Citizens’ Energy Package that’s fair & accessible to all - Fedarene](#)

¹³ [Advocacy - Energy Cities](#)

Public Data in Demo states in support of the development of projects

Flanders

- **GHG emissions**
 - Broeikasgassen – Emissions per sector and per gas
 - Welkom — Klimaatportaal Scenarios on climate change – focus on climate
 - CO2-inventarissen 2022 | Vlaanderen.be 2022 inventory for every municipality
 - Maatregelentool emissiereductie | Vlaanderen.be – Excel tool, measuring impact of policy actions to reduce emissions.
 - CO2-calculator voor uw organisatie | EMIS
 - CO2-voetafdruk calculator - Klimaatplein CO2 Calculator for individual SME taking into account electricity, fossil fuels, business transport land, sea, air
- **SME's in Flanders**
 - BIZGIS Geopunt | Digitaal Vlaanderen Identification of all SME sites in Flanders. Under development. FOC in 2026.
- **Energy consumption SMEs**
 - Explore — Fluvius Open Data Available electricity and gas consumption at street level. Not individual.
- **Energy Communities**
 - Energiegemeenschappen | VREG -List of EC in Flanders

Spain

- **GHG Emissions**
 - **National Inventory of GHG Emissions.** The Spanish Ministry for the Ecological Transition and the Demographic Challenge (MITECO) publishes the National Inventory of Greenhouse Gas Emissions annually, detailing emissions by sector and type of gas since 1990.
 - Interactive report: National GHG Inventory – MITECO
 - CRF and NIR datasets: Inventory data – MITECO
 - **Spanish climate change:** AdapteCCa Platform
 - **Climate Scenarios Viewer (Spain) :** Climate Scenarios Viewer
 - **Emissions by Sector from the Bank of Spain:** The Bank of Spain provides GHG emissions data by economic sector (NACE classification), which allows for analysis of carbon intensity across different industries.: **Emissions** by sector – Bank of Spain
 - **Per Capita GHG Emissions** The Spanish National Statistics Institute (INE) provides annual data on total GHG emissions per inhabitant, broken down by gas and economic activity : GHG emissions per capita – INE
 - **GHG Emissions Relative to GDP** Also, from INE, this dataset provides GHG emissions in relation to Spain's GDP :GHG emissions per GDP – INE
 - **Carbon Footprint Calculator for Companies – Iberdrola** Iberdrola offers a free tool for companies to calculate their carbon footprint, identify areas for improvement, and offset unavoidable emissions : Carbon footprint calculator – Iberdrola
- **SME's in Spain**
 - **Ministry of Industry, Trade and Tourism – SME Statistics & Publications** Provides annual reports and detailed statistics on the number, structure, and sectoral breakdown of SMEs in Spain :<https://industria.gob.es/en-US/estadisticas/Paginas/estadisticas-y-publicaciones-sobre-pyme.aspx>
 - **INE – Central Business Register (DIRCE)** :Official register of all businesses in Spain, including detailed info by company size and activity :<https://www.ine.es/daco/daco42/dirce/dircetablas.htm>
 - **Instituto Nacional de Estadística (INE) – Energy Consumption by Sector (not divided by size of company).**:The INE offers detailed datasets on energy consumption across

various sectors, including industry and services, which encompass SMEs. These datasets are categorized by the main activity (CNAE-2009) and energy product consumed. It provides insights into energy usage patterns within sectors that predominantly consist of SMEs. **Energy Consumption per Year by Main Activity and Product.**

Portugal

- **GHG Emissions**
 - **Portuguese National Inventory Document on GHG 1990-2023**
https://apambiente.pt/sites/default/files/_Clima/Inventarios/20250509/nid2025_15march.pdf
 - **Open Data Platform (E-REDES):** Repository of data on energy use and consumption available at district level developed by the National network of electricity distribution. Portal - Homepage — E-REDES
 - **State of the Environment Report - Energy and Climate (APA)** Document elaborated by the National Environment Agency with data on emissions by category, including:
 - Evolution of final energy consumption by sector
<https://rea.apambiente.pt/content/produ%C3%A7%C3%A3o-e-consumo-de-energia?language=pt-pt>
 - Evolution of GHG emissions from 1990
<https://rea.apambiente.pt/content/emiss%C3%B5es-de-gases-com-efeito-de-estufa>
 - **Decarbonization national Roadmap 2050** The Roadmap to Carbon Neutrality 2050 (RNC2050) sets out the vision and trajectories for Portugal to achieve carbon neutrality by 2050. RNC2050_PT-22-09-2019.pdf
 - **PORDATA – Statistics per sector** Electricity consumption and GHG emissions by sector (agriculture, industry, commerce, services). Homepage | PORDATA
 - **Transparência.Gov – GHG Emissions** Official site with annual series (from 1990): national GHG emissions and distribution by sector. Open data for download. Mais Transparência
 - **Municipal GHG emissions monitoring platform** Inventories of GHG emissions at local level by using the Global Protocol for Community – Scale Greenhouse Gas Emission Inventories: total emissions, emissions per capita and emissions by Gross Value Added. MEM+ Monitorização de Emissões Municipais
 - **Carbon Footprint Calculator for Companies** Free software designed by the consultancy Get2C to calculate the carbon footprint of companies in a simple and effective way. It includes detailed reports and KPIs for savings opportunities. Get2Zero - Simple
- **SME in Portugal**
 - **Energy in Numbers (DGEG / ADENE, 2025)** Annual publication with detailed statistics by sector (production, consumption, energy efficiency) - with an emphasis on final and primary energy consumption, including business companies. The document focuses in particular on information for the years 2023 and 2024. <https://www.dgeg.gov.pt/media/b4fhd0lv/dgeg-aen-2025e.pdf>
 - **Study on statistics of SME.**
https://www.ine.pt/ngt_server/attachfileu.jsp?look_parentBoui=91762214&att_display=n&att_download=y
 - **Primary energy consumption by companies by geographical location.** Data from the National Statistics Institute.
https://www.ine.pt/xportal/xmain?xpid=INE&xpgid=ine_indicadores&indOcorrCod=0009592&contexto=bd&selTab=tab2

- **Study on SMEs in Portugal**

https://www.ine.pt/ngt_server/attachfileu.jsp?look_parentBoui=91762214&att_display=n&att_download=y

EXISTING CURRENT PRACTICES ON ECs

Practices on Businesses led Energy Sharing

At the business level, energy sharing practices are emerging in response to rising energy costs, decarbonization goals, and the evolving regulatory landscape in the EU. Many of these initiatives are in an early stage or have no or limited available data.

Collective Self-Consumption in Business parks

In this model, multiple businesses located within close geographical proximity (typically within the same low-voltage distribution network) collectively consume electricity generated from a shared renewable energy installation — most commonly solar PV, but sometimes also small-scale wind or biomass. This is often referred to as “**collective self-consumption**” or “**virtual energy sharing**”.

One or several businesses install a renewable energy system (e.g., rooftop solar panels on a warehouse or production hall). The generated electricity is either consumed on-site or virtually allocated to other nearby businesses through smart metering and a predefined sharing agreement. Sharing is usually managed by the Distribution System Operator (DSO) or a licensed energy services company that ensures correct allocation and balancing. No physical private cables are required; the energy sharing is “virtual”, relying on grid infrastructure and supported by regulation and consequently also implies distribution costs.

This practice is in use where the CSC is supported by national legislation like Spain or Portugal. Most of the initiatives are under development, awaiting budget or in the tendering process. Examples includes ACEPAR¹⁴ and Sant LLUS¹⁵ in Spain.

Microgrids in Industrial Clusters

A **microgrid** is a local energy system that can operate autonomously or in coordination with the main grid. In the context of industrial clusters, a group of companies — often located in a business park, port, or industrial zone — connect to a **private microgrid**. This microgrid integrates shared **renewable energy generation, battery storage**, and increasingly also **EV charging stations**.

The participating companies collectively manage and optimize energy production and consumption within the cluster, balancing peaks, reducing grid dependency, and improving energy resilience.

This model requires ownership of the microgrid and is not considered as an energy community according to the EU definitions. This practice is in use in different member states where this ownership is promoted. Within our demo sites the Port of Sines is developing a microgrid and in Flanders the closed distribution network is recognized a local energy system.

Virtual Power Purchase Agreements (VPPAs) Among Multiple Businesses

A **Virtual Power Purchase Agreement (VPPA)** is a financial contract between an energy buyer (a business or group of businesses) and a renewable energy generator (like a solar or wind farm). Unlike

¹⁴ <https://acepareus.es/>

¹⁵ <https://www.ajsantlluis.org/Contingut.aspx?idpub=33826>

traditional PPAs, in VPPAs there is **no physical delivery** of electricity to the buyer. Instead, the buyer receives the **guarantees of origin (GOs)** or **renewable energy certificates (RECs)** and locks in a fixed price, while the actual electricity is sold by the generator into the market.

Increasingly, **groups of companies** with similar sustainability goals or purchasing profiles are **joining forces** to sign **aggregate VPPAs**, thereby sharing risk and accessing better terms than they would alone.

Examples are retail and logistic companies like IKEA, Heineken or Tech firms and data centers like Google and Amazon.

Peer-to Peer trading

Peer-to-peer (P2P) energy trading allows businesses (and sometimes households) to **buy and sell electricity directly** from each other, bypassing traditional utility models. Transactions are facilitated by DSO platforms or digital platforms. Businesses with surplus renewable energy (typically from solar panels or small wind turbines) can sell this surplus directly to a neighboring business or even consumer within the same grid zone.

Examples include Powerpeers¹⁶ and Vandebron¹⁷ in Netherlands as mini market trading and KBC in Flanders buying directly from 100 employees also known as a many to one form of P2P trading.

REC or CEC in business parks

SMEs in business parks create a CEC or REC to co-invest in renewable installations and share the output or share the output of the private owned renewable energy installation of one the EC members. Multiple initiatives exist across the EU member states but are often not operational or are consistent with the CEC or REC frameworks. However, only one initiative is currently operational and fully aligned with the EU framework: HIW¹⁸ in Antwerp, which has been active since March 2023. The management board of HIW has provided the authorization to include all relevant data in support of this report.

CEC HIW Antwerp

Description

In 2022, the Provincial Development Company (POM) of Antwerp launched a project to develop a possible Energy Community on the business park “Terbekehof” located in a southern district of the city of Antwerp. This park was one of the ecoregions within the R-ACES¹⁹ energy cooperation platform, based on shown interest by some of the present business. The project was a part of a valorization plan of the business park which started in 2017. The plan included a flood prevention action plan, a district heating network and infrastructure refurbishment.

¹⁶ [Powerpeers - 100% groene stroom delen met anderen](#)

¹⁷ [Méér dan een 100% duurzame energieleverancier - Vandebron](#)

¹⁸ [HIW | Hét netwerk van ondernemers uit Wilrijk, Hoboken & Aartselaar](#)

¹⁹ R-ACES co-funded by the EU HORIZON 2020 program under grant agreement N°892429 [R-Aces – Energy Cooperation Platform](#)



Figure 1 Areal picture of business park Terbekehof

The project team developed proposals to inform and convince the interested members of the business park of the advantages of energy collaboration as an energy community. This resulted in a formal agreement by the end of 2022 to develop a local energy community.

Participants

HIW is a business park association in “Terbekehof”, created in 1977 with the purpose to connect, defend the interests and inform its members in the business park. The business park covers more than 200 SMEs active in multiple sectors of which 135 are member of HIW. The main activities of HIW are :

- Defending the common interests of the members;
- Supporting individual members;
- General management of the business park through multiple activities.

Legal Framework

HIW is a non-profit association with different working members, an annual general assembly and a selected governing board. When the interested SMEs started to think about energy collaboration, they agreed to use HIW as the framework. This was based on the agreed activities within the association, which allowed the governing body to analyze, debate and develop solutions for problems raised by its members.

The initial objective of the participating members was to find an alternative for the feed-in tariff of two existing PV installations. This tariff is following the energy market and has known a steep decline after the energy crisis, dropping below the threshold for an acceptable payback period in this particular case.

In Flanders both CEC and REC are allowed as possible framework. The key elements of the CEC and REC are not fully consistent with the key elements of an industry park. Initially there were no citizens or local authorities involved into the operations of a business park association. Nevertheless, HIW opted to adopt the CEC framework which allowed them to integrate the existing PV installations in the community.

The general assembly of HIW accepted the proposal to create a CEC in February 2023, and adopted the internal regulation called “EC Terbekehof”. The only adopted activity in the regulation is the exchange of possible injection flows between the participating members. The regulation describes the general rules for

participation, management and leaving the EC. The regulation serves as a binding contract for each participant.

In accordance with the Flemish regulations “EC Terbekehof” was then officially registered on the platform of the Flemish Energy Regulator VREG²⁰ and accepted during 2024.

Business Model

The CEC framework does not allow to sell the energy amongst the participants in Flanders. This is only allowed in a peer-to-peer framework. Nevertheless, businesses are always looking for a beneficial solution and want to valorize their contributions. That’s why HIW opted for a contribution per participant linked to their equivalent contribution to the energy sharing.

A business model for energy sharing in Flanders can only be developed with the energy component of the electricity price. The net costs and taxes for the injection streams have to be paid by the PV installation owner and there is no support mechanism for energy sharing in Flanders providing discounts on those parts of the electricity price.

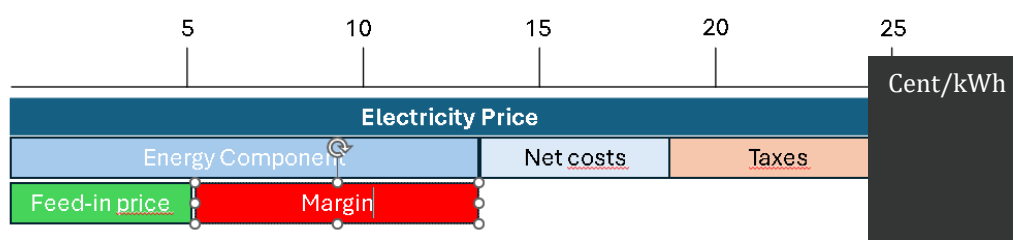


Figure 2 Energy sharing price decomposition

The margin between the electricity rate charged by your energy supplier and the compensation received under your feed-in contract is typically around 0.10 €/kWh. The price to which the electricity is shared is determined on a monthly basis taking into account the purchase price and the feed-in tariff of the four main energy providers who cover more than 90 % of the Flemish market.

HIW has decided a 60-40 profit split for shared energy, with 60% allocated to PV owners and 40% to energy recipients, justified by the upfront investment costs of the installation.

Alternative models discussed were:

- a 50-50 distribution between producers and consumers,
- allocating a share to the business park association to support additional activities,
- directing a portion of the profits to a selected social project.

Two costs have to be considered within the HIW business model

- Each participant must pay an administrative fee to their respective energy provider, which varies depending on the provider. This fee typically ranges from €0 to €150 per participant per year, or between €32 and €45 per MWh of shared energy. This fee covers the additional administrative work required to include shared energy in the billing process, as well as the added uncertainty the provider faces regarding balance responsibilities

²⁰ [Energiegemeenschappen | VREG](#)

- The EC management fee, which is a fee of 8% on the profit created by sharing energy, and covering the monthly activities of the designated EC manager.

The HIW business model proves profitable for participants on fixed or monthly variable contracts. For those on hourly contracts tied to the day-ahead market, profitability arises when they share surplus energy, but not when receiving injected energy.

EC Management

The EC management covers a number of activities:

- Development of the EC creating the legal framework and managing the participants;
- Registration of the EC on the platform of the VREG;
- Registration of every participant on the DSO platform;
- Registration of the distribution key on the DSO;
- Management of the monthly shared energy: reception and verification of numbers by DSO, at request of the participant verification of the monthly energy bill by the energy provider, managing the contribution fee per participant;
- Management of additional or leaving participants.

HIW had a dedicated manager which received an additional role as EC manager. The EC manager is supported by a standalone EC management tool capable of analyzing the probable quantity of shared energy, the monthly sharing price and changes due to new participants or leaving participants. The tool also allows managing the monthly shared energy and the linked contribution fees. Recognizing the added value of the EC management tool, the city of Antwerp decided²¹ in 2025 to support the development of the tool, named “Pwrfull”.

Evolution

The EC started sharing energy in March 2023 with 2 participants sharing their injection energy and 7 participants receiving the energy. After two years of operations, the EC has undergone some changes and has identified a number of future opportunities:

- One participant stopped because of his hourly contract giving him no profit as a receiver of energy;
- One participant changed its legal form, causing an administrative change within the EC;
- Three new participants were included in February 2025;
- One of the participants is considering an additional PV installation with a possible battery;
- One possible future participant requires the certificates guaranteeing the origin of the shared energy as green energy;
- Participants have questions on possible additional services within the EC, requiring a change of the adopted legal framework.

Results

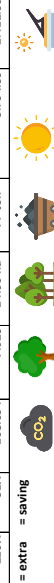
The Following tables identify the results of HIW until the start of the operation of the EC until April 2025.

²¹ Three SMEs drive product and process Innovation with support from the city of Antwerp | Business in Antwerp



HIW SIMULATION / CALCULATION v2025.6.04

Month	Parameters				Calculation				New calculation				ECOLOGICAL IMPACT Annual				Solar hours	Radiation kWh/m2	kWh/hr sun								
	Volume kWh	BELPEX*	Inj-Low*		Cons-High*	Min Injectie	Max Cons		Profit Area	I=60%	Split		Commission 8%	60/40		Inj/Cons				Profit		kg CO2	Threes	Forrest ha	kg Coal		
			Cons-High*	Inj-Low*			A=40%	Injection			Cons	EG Sell rate															
202301	0.00	130.70	58.7630	329.8600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.34	16.80	6.3	
202302	0.00	143.51	54.8160	264.6000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.06	39.20		
202303	525.26	109.59	55.1120	271.1000	28.95	142.40	113.45	68.07	45.38	9.08	184.7048	97.02	235%	-32%	142	6	0.00	65						83.08	61.90		
202304	19.582.58	105.53	50.2800	183.0000	984.61	3.583.61	2.599.00	1.559.40	1.039.60	207.92	129.9120	2.544.01	158%	-29%	5.287	220	0.40	2.409	149.02	101.80	131.4			149.02	101.80	131.4	
202305	25.865.64	80.18	45.4370	178.0000	1.175.26	4.604.08	3.428.83	2.057.30	1.371.53	274.31	124.9748	3.232.55	175%	-30%	6.984	291	0.60	3.181	230.33	156.20	112.3			230.33	156.20	112.3	
202306	27.131.91	93.14	40.1000	177.5000	1.087.99	4.815.91	3.727.93	2.236.76	1.491.17	298.23	122.5400	3.324.74	206%	-31%	7.326	305	0.60	3.337	307.50	187.40	88.2			307.50	187.40	88.2	
202307	36.005.58	75.35	49.3000	135.8800	1.775.08	4.892.44	3.117.36	1.870.42	1.246.95	249.39	101.2480	3.645.49	105%	-25%	9.722	405	0.80	4.429	185.26	140.10	194.4			185.26	140.10	194.4	
202308	17.137.21	91.96	36.5000	134.6000	625.51	2.306.67	1.681.16	1.008.70	672.46	134.49	95.3600	1.634.20	161%	-29%	4.627	193	0.40	2.108	181.26	123.40	94.5			181.26	123.40	94.5	
202309	16.432.24	94.35	42.6580	134.9100	700.97	2.216.87	1.515.91	909.54	606.36	121.27	98.0092	1.610.51	130%	-27%	4.437	185	0.40	2.021	194.08	101.40	84.7			194.08	101.40	84.7	
202310	13.793.59	86.40	43.9490	138.0000	606.21	1.903.52	1.297.30	778.38	518.92	103.78	100.3796	1.384.60	128%	-27%	3.724	155	0.30	1.697	107.41	53.70	128.4			107.41	53.70	128.4	
202311	6.229.81	91.47	39.6560	129.5700	247.05	807.20	560.15	336.09	224.06	44.81	93.6044	583.14	136%	-28%	1.682	70	0.10	766	37.15	21.90	167.7			37.15	21.90	167.7	
202312	1.959.65	69.40	42.3940	134.6100	83.08	263.79	180.71	108.43	72.28	14.46	97.7236	191.50	131%	-27%	5.29	22	0.00	241	19.59	11.60	100.0			19.59	11.60	100.0	
202401	6.986.75	78.56	30.4760	123.5000	212.93	862.86	649.94	389.96	259.97	51.99	86.2904	602.89	183%	-30%	1.886	79	0.20	859	72.44	24.40	96.4			72.44	24.40	96.4	
202402	7.101.83	61.52	35.4220	123.5000	251.56	877.08	625.51	375.31	250.21	50.04	88.2688	626.87	149%	-29%	1.917	80	0.20	874	37.15	21.90	191.2			37.15	21.90	191.2	
202403	17.376.53	61.17	25.5000	123.5000	443.10	2.146.00	1.702.90	1.021.74	681.16	136.23	84.3000	1.464.84	231%	-32%	4.692	195	0.40	2.137	95.08	66.60	182.8			95.08	66.60	182.8	
202404	38.471.24	48.01	26.0210	118.2000	1.001.06	4.547.30	3.546.24	2.127.74	1.418.50	283.70	81.3284	3.128.80	213%	-31%	10.387	433	0.90	4.732	132.50	99.60	290.3			132.50	99.60	290.3	
202405	45.665.05	54.45	18.4000	90.5700	840.24	4.135.88	3.295.65	1.977.39	1.318.26	263.65	61.7020	2.817.62	235%	-32%	12.330	514	1.00	5.617	140.02	115.40	326.1			140.02	115.40	326.1	
202406	54.218.91	59.80	22.4030	95.9900	1.214.67	5.204.47	3.989.81	2.393.88	1.595.92	313.18	66.5552	3.608.55	197%	-31%	14.639	610	1.20	6.669	186.00	142.60	291.5			186.00	142.60	291.5	
202407	52.144.08	54.56	26.2000	110.7200	1.366.18	5.773.39	4.407.22	2.644.33	1.762.89	352.58	76.9120	4.010.51	194%	-31%	14.079	587	1.20	6.414	198.14	144.30	263.2			198.14	144.30	263.2	
202408	46.523.68	65.53	24.7000	104.6800	1.149.14	4.870.10	3.720.96	2.232.58	1.488.39	297.68	72.6880	3.381.71	194%	-31%	12.561	523	1.00	5.722	235.11	138.60	197.9			235.11	138.60	197.9	
202409	35.034.56	66.65	30.8000	119.2300	1.079.06	4.177.17	3.098.11	1.858.86	1.239.24	247.85	83.8580	2.937.93	172%	-30%	9.459	394	0.80	4.309	123.31	77.40	284.1			123.31	77.40	284.1	
202410	26.423.10	77.90	19.6000	109.1400	517.89	2.883.82	2.365.92	1.419.55	946.37	189.27	73.3240	1.937.45	274%	-33%	7.134	297	0.60	3.250	97.42	52.00	271.2			97.42	52.00	271.2	
202411	7.021.79	108.94	22.8000	123.1700	160.10	864.87	704.78	422.87	281.91	56.38	83.0220	582.96	264%	-33%	1.896	79	0.20	864	38.34	18.70	183.1			38.34	18.70	183.1	
202412	2.084.93	105.22	25.9000	160.4200	54.00	334.46	280.46	168.28	112.19	22.44	106.6120	222.28	312%	-34%	5.63	23	0.00	256	17.01	11.10	122.6			17.01	11.10	122.6	
202501	4.855.61	112.00	23.7720	158.4300	115.43	769.27	653.85	392.31	261.54	52.31	104.5668	507.74	340%	-34%	1.311	55	0.10	597	36.28	19.90	133.8			36.28	19.90	133.8	
202502	18.854.56	128.75	17.8970	167.2100	337.44	3.152.67	2.815.23	1.689.14	1.126.09	225.22	107.4848	2.026.58	501%	-36%	5.091	212	0.40	2.319	90.16	42.80	209.1			90.16	42.80	209.1	
202503	45.179.01	91.21	16.4000	187.5900	740.94	8.475.13	7.734.19	4.640.52	3.093.68	618.74	119.1140	5.381.45	626%	-37%	12.198	508	1.00	5.557	199.12	103.70	226.9			199.12	103.70	226.9	
202504	52.188.77	73.39	15.8000	144.3300	824.58	7.532.40	6.707.82	4.024.69	2.683.13	536.63	92.9180	4.849.28	488%	-36%	14.091	587	1.20	6.419	248.41	149.00	210.1			248.41	149.00	210.1	
202505		61.07	13.7000	120.1800	0.00	0.00	0.00	0.00	0.00	0.00					0	0	0.00	0.0	240.42	168.50	0.0			240.42	168.50	0.0	
202506		55.92	13.7000	120.1800	0.00	0.00	0.00	0.00	0.00	0.00					0	0	0.00	0.0	0.00	0.00	0.00			0.00	0.00	0.00	
Total	624.793.85	38.55	18.0512	69.32	17.623.00	82.143.38	64.520.38	38.712.23	25.808.15	5.161.63	80.0112	56.335.23	220%	-31%	168.694	7.029	14.06 ha	3.794.99	2.411.90						3.794.99	2.411.90	164.6



= extra = saving

Figure 3 Results of energy sharing EC HIW



SIMULATION INSTALLATION 1 | Injection

SIMULATION																						
Parameters				GRID			HIW			TOTAL				POTENTIAL EC/UPLIFT								
Month	Volume kWh	BELPEX*	Inj-Low*	Cons-High*	Inj Grid	€/MWh	Revenues	Inj EC	€/MWh	Revenues	%kWh EC	Production	€/MWh	Revenues	%kWh NW	% kWh EC	Realized	Lost	TOTAL			
202301	525.26	130.70	55.1120	271.1000	42.451.5	68.8011	2.920.7	0.0	184.7048	0.0	0%	42.451.5	68.8011	2.920.7	100.0%	0.0%	0.0	4.920.3	4.920.3			
202302	19582.58	105.53	50.2800	183.0000	63.968.1	65.7542	4.206.2	15.472.1	129.9120	2.010.0	79%	79.440.2	78.2499	6.216.2	80.5%	19.5%	992.7	4.104.0	5.096.7			
202303	25865.64	80.18	45.4370	178.0000	92.860.4	27.4934	2.553.0	22.001.5	124.9748	2.749.6	85%	114.862.0	46.1657	5.302.7	80.8%	19.2%	2.144.7	9.052.2	11.196.9			
202306	27131.91	93.14	40.1000	177.5000	104.127.6	50.0357	5.210.1	23.488.4	122.5400	2.878.3	87%	127.616.0	63.3805	8.088.4	81.6%	18.4%	1.703.0	7.549.7	9.252.7			
202307	36005.58	75.35	49.3000	135.8800	66.691.7	35.2400	2.350.2	31.929.9	101.2480	3.232.8	89%	98.621.6	56.6109	5.583.1	67.6%	32.4%	2.107.6	4.402.2	6.509.8			
202308	17137.21	91.96	36.5000	134.6000	64.791.8	52.1573	3.379.4	14.443.3	95.3600	1.377.3	84%	79.235.1	60.0325	4.756.7	81.8%	18.2%	624.0	2.799.2	3.423.2			
202309	16432.24	94.35	42.6580	134.9100	64.145.3	50.4754	3.237.8	14.161.6	98.0092	1.388.0	86%	78.306.9	59.0717	4.625.7	81.9%	18.1%	673.2	3.049.1	3.722.2			
202310	13793.59	86.40	43.9490	138.0000	25.444.7	41.0435	1.044.3	11.903.5	100.3796	1.194.9	86%	37.348.2	59.9550	2.239.2	68.1%	31.9%	706.3	1.509.8	2.216.1			
202311	6229.81	91.47	39.6560	129.5700	4.645.3	62.7010	291.3	5.372.4	93.6044	502.9	86%	10.017.7	79.2743	794.1	46.4%	53.6%	166.0	143.6	309.6			
202312	1.959.65	69.40	42.3940	134.6100	1.905.7	43.4945	82.9	1.624.4	97.7236	158.7	83%	3.530.1	68.4486	241.6	54.0%	46.0%	88.1	103.3	191.4			
202401	6.986.75	78.56	30.4760	123.5000	4.930.1	54.4938	268.7	6.254.8	86.2904	539.7	90%	11.185.0	72.2750	808.4	44.1%	55.9%	198.9	156.8	355.6			
202402	7.101.83	61.52	35.4220	123.5000	6.493.9	40.8228	265.1	6.151.2	88.2688	543.0	87%	12.645.2	63.9028	808.1	51.4%	48.6%	291.9	308.1	600.0			
202403	17.376.53	61.17	25.5000	123.5000	27.238.8	23.6716	644.8	14.621.9	84.3000	1.232.6	84%	41.860.7	44.8491	1.877.4	65.1%	34.9%	886.5	1.651.4	2.537.9			
202404	38.471.24	48.01	26.0210	118.2000	36.985.9	5.1431	190.2	33.265.4	81.3284	2.705.4	86%	70.251.3	41.2184	2.895.6	52.6%	47.4%	2.534.3	2.817.8	5.352.1			
202405	45.665.05	54.45	18.4000	90.5700	40.382.2	-8.6200	-348.1	39.582.0	61.7020	2.442.3	87%	79.964.2	26.1892	2.094.2	50.5%	49.5%	2.783.5	2.839.8	5.623.2			
202406	54.218.91	59.80	22.4030	95.9900	49.444.3	1.8800	93.0	47.301.0	66.5552	3.148.1	87%	96.745.3	33.5012	3.241.1	51.1%	48.9%	3.059.2	3.197.8	6.257.0			
202407	52.144.08	54.56	26.2000	110.7200	49.657.6	2.5000	124.1	46.917.5	76.9120	3.608.5	90%	96.575.1	38.6503	3.732.7	51.4%	48.6%	3.491.2	3.695.1	7.186.3			
202408	46.523.68	65.53	24.7000	104.6800	55.099.4	1.6280	89.7	41.387.9	72.6880	3.008.4	89%	96.487.3	32.1089	3.098.1	57.1%	42.9%	2.941.0	3.915.4	6.856.4			
202409	35.034.56	66.65	30.8000	119.2300	34.570.5	12.0000	414.8	30.398.8	83.8580	2.549.2	87%	64.969.3	45.6220	2.964.0	53.2%	46.8%	2.184.4	2.484.2	4.668.6			
202410	26.423.10	77.90	19.6000	109.1400	14.446.0	24.4519	353.2	23.201.8	73.3240	1.701.2	88%	37.647.8	54.5711	2.054.5	38.4%	61.6%	1.133.9	706.0	1.839.9			
202411	7.021.79	108.94	22.8000	123.1700	2.222.7	61.1967	136.0	6.242.7	83.0220	518.3	89%	8.465.5	77.2914	654.3	26.3%	73.7%	136.2	48.5	184.8			
202412	2.084.93	105.22	25.9000	160.4200	156.1	57.7300	9.0	1.853.6	106.6120	197.6	89%	2.009.7	102.8142	206.6	7.8%	92.2%	90.6	7.6	98.2			
Total	503.715.91				852.659.6	32.2713	27.516.4	437.575.6	80.0112	37.686.9	87%	1.290.235.2	50.5360	65.203.4	66.1%	33.9%	28.937.3	59.461.8	88.399.1			

Figure 4 1 MWp installation – injection results

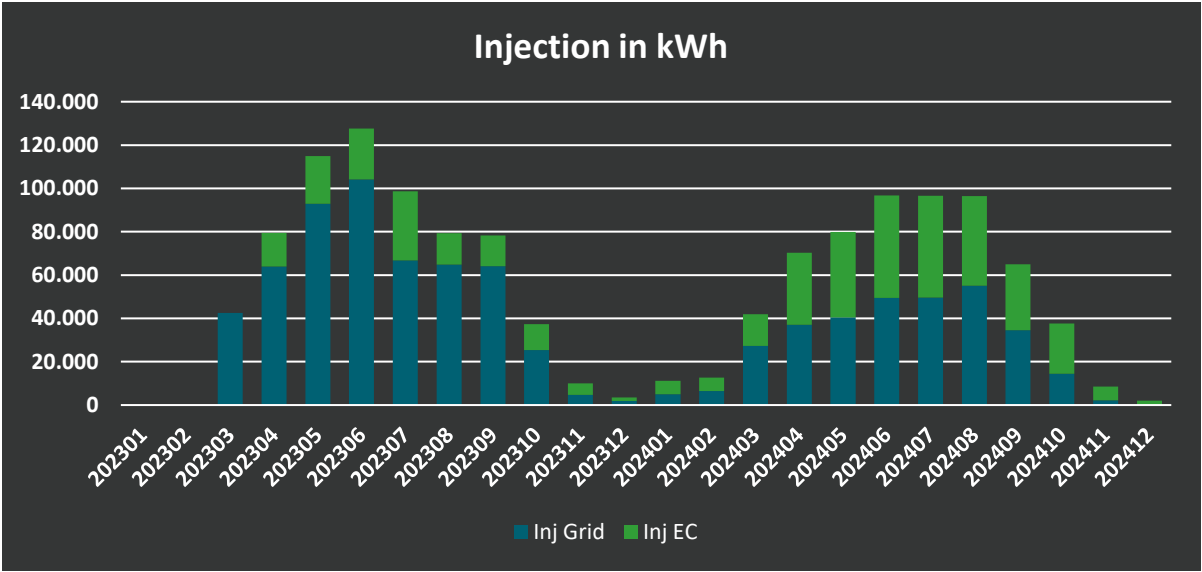


Figure 5 1 MWp installation – monthly use of the injection



Figure 6 1 MWp installation – monthly comparison injection rates

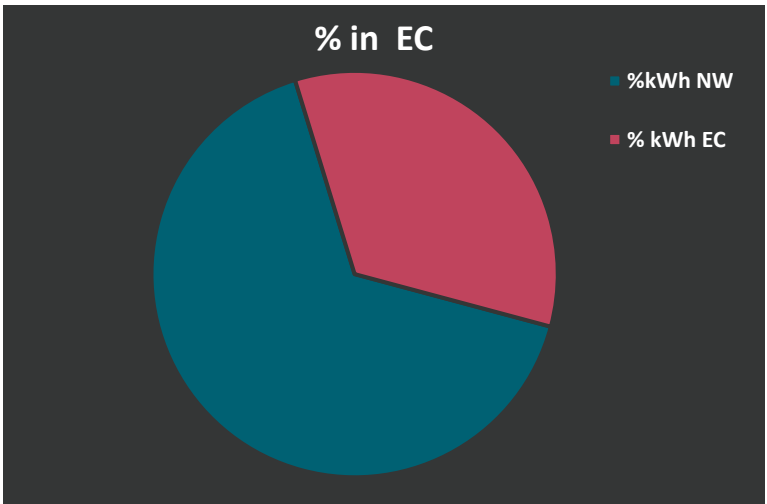


Figure 7 1 MWp installation –% destination injection

SIMULATION INSTALLATION 2 | Injection

Month	Parameters				SIMULATION															
	Volume kWh	BELPEX*	Inj-Low*	Cons-High*	GRID		HIW				TOTAL				POTENTIAL EG UPLIFT					
					Inj GRID	€/MWh	Revenues	Inj EC	€/MWh	Revenues	%kWh EC	Production	€/MWh	Revenues	%kWh NW	% kWh EG	Realized	Lost	TOTAL	
202301		130.70																		
202302		143.51																		
202303	525.26	109.59	55.1120	271.1000	6.726.1	79.3966	534.0	525.3	184.7048	97.0	100%	7.251.4	87.0247	631.0	92.8%	7.2%	55.3	708.3	763.6	
202304	19.582.58	105.53	50.2800	183.0000	11.308.6	52.7652	596.7	4.110.4	129.9120	534.0	21%	15.419.0	73.3312	1.130.7	73.3%	26.7%	317.1	872.4	1.189.5	
202305	25.865.64	80.18	45.4370	178.0000	16.707.5	40.0898	669.8	3.864.1	124.9748	482.9	15%	20.571.6	56.0344	1.152.7	81.2%	18.8%	328.0	1.418.2	1.746.2	
202306	27.131.91	93.14	40.1000	177.5000	17.839.8	46.5700	830.8	3.643.5	122.5400	446.5	13%	21.483.4	59.4543	1.277.3	83.0%	17.0%	276.8	1.355.3	1.632.1	
202307	36.005.58	75.35	49.3000	135.8800	11.590.7	37.6751	436.7	4.075.7	101.2480	412.7	11%	15.666.4	54.2140	849.3	74.0%	26.0%	259.1	736.9	996.0	
202308	17.137.21	91.96	36.5000	134.6000	10.747.2	45.9793	494.2	2.693.9	95.3600	256.9	16%	13.441.1	55.8763	751.0	80.0%	20.0%	133.0	530.7	663.7	
202309	16.432.24	94.35	42.6580	134.9100	10.820.6	47.1750	510.5	2.270.6	98.0092	222.5	14%	13.091.2	55.9921	733.0	82.7%	17.3%	115.4	550.1	665.5	
202310	13.793.59	86.40	43.9490	138.0000	4.865.8	43.2012	210.2	1.890.1	100.3796	189.7	14%	6.755.9	59.1979	399.9	72.0%	28.0%	108.1	278.2	386.3	
202311	6.229.81	91.47	39.6560	129.5700	0.0	0.0000	0.0	857.4	93.6044	80.3	14%	857.4	93.6044	80.3	0.0%	100.0%	80.3	0.0	80.3	
202312	1.959.65	69.40	42.3940	134.6100	104.0	0.0000	0.0	335.2	97.7236	32.8	17%	439.2	74.5854	32.8	23.7%	76.3%	32.8	10.2	42.9	
202401	6.986.75	78.56	30.4760	123.5000	415.7	48.2356	20.1	731.9	86.2904	63.2	10%	1.147.7	72.5057	83.2	36.2%	63.8%	27.9	15.8	43.7	
202402	7.101.83	61.52	35.4220	123.5000	700.6	36.3922	25.5	950.6	88.2688	83.9	13%	1.651.2	66.2589	109.4	42.4%	57.6%	49.3	36.3	85.7	
202403	17.376.53	61.17	25.5000	123.5000	3.611.3	36.3922	131.4	2.754.6	84.3000	232.2	16%	6.365.9	57.1225	363.6	56.7%	43.3%	132.0	173.0	305.0	
202404	38.471.24	48.01	26.0210	118.2000	4.030.7	6.7709	27.3	5.205.9	81.3284	423.4	14%	9.236.5	48.7927	450.7	43.6%	56.4%	388.1	300.5	688.7	
202405	45.665.05	54.45	18.4000	90.5700	4.730.1	12.0919	57.2	6.082.9	61.7020	375.3	13%	10.813.0	40.0002	432.5	43.7%	56.3%	301.8	234.7	536.4	
202406	54.218.91	59.80	22.4030	95.9900	5.983.1	-0.3643	-2.2	6.918.4	66.5552	460.5	13%	12.901.4	35.5211	458.3	46.4%	53.6%	463.0	400.4	863.4	
202407	52.144.08	54.56	26.2000	110.7200	5.009.5	-7.5967	-38.1	5.226.6	76.9120	402.0	10%	10.236.1	35.5541	363.9	48.9%	51.1%	441.7	423.3	865.0	
202408	46.523.68	65.53	24.7000	104.6800	6.420.1	-5.1368	-33.0	5.135.8	72.6880	373.3	11%	11.555.8	29.4510	340.3	55.6%	44.4%	399.7	499.6	899.3	
202409	35.034.56	66.65	30.8000	119.2300	3.367.5	1.8967	6.4	4.635.8	83.8580	388.7	13%	8.003.3	49.3714	395.1	42.1%	57.9%	380.0	276.0	656.0	
202410	26.423.10	77.90	19.6000	109.1400	1.522.7	22.7402	34.6	3.221.3	73.3240	236.2	12%	4.744.0	57.0880	270.8	32.1%	67.9%	162.9	77.0	240.0	
202411	7.021.79	108.94	22.8000	123.1700	70.3	70.4547	5.0	779.1	83.0220	64.7	11%	849.3	81.9824	69.6	8.3%	91.7%	9.8	0.9	10.7	
202412	2.084.93	105.22	25.9000	160.4200	10.8	64.3656	0.7	231.4	106.6120	24.7	11%	242.2	104.7210	25.4	4.5%	95.5%	9.8	0.5	10.2	
Total	503.715.91				126.582.6	35.6900	4.517.7	66.140.6	88.9513	5.883.3	13%	192.723.2	53.9687	10.401.0	65.7%	34.3%	4.471.7	8.898.3	13.370.1	

Figure 8 130 kWp installation injection results

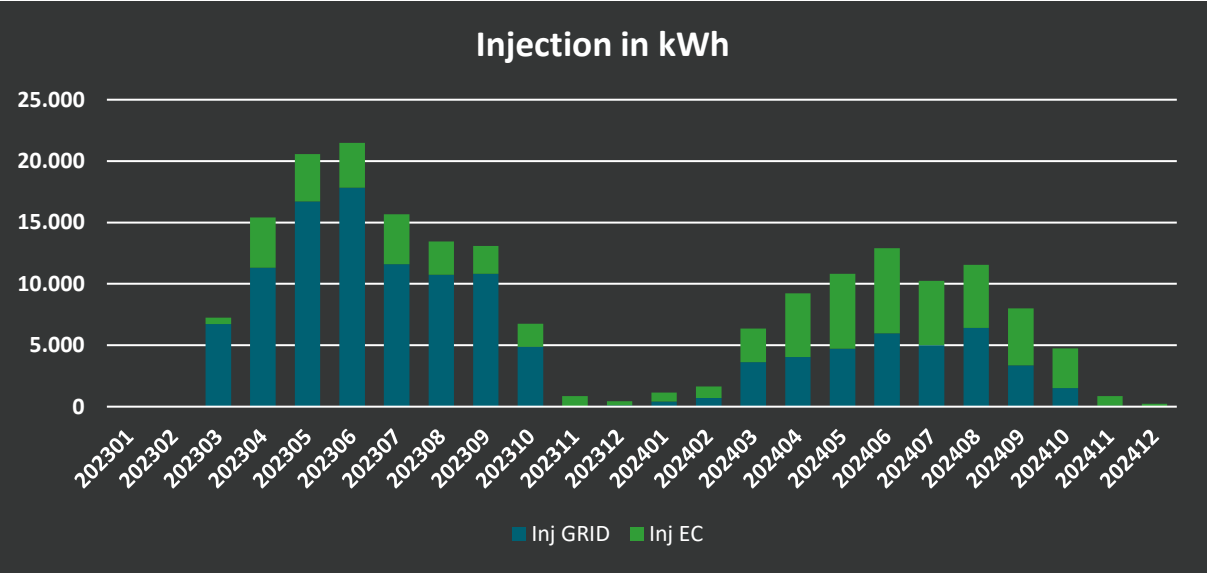


Figure 9 monthly use of the injection

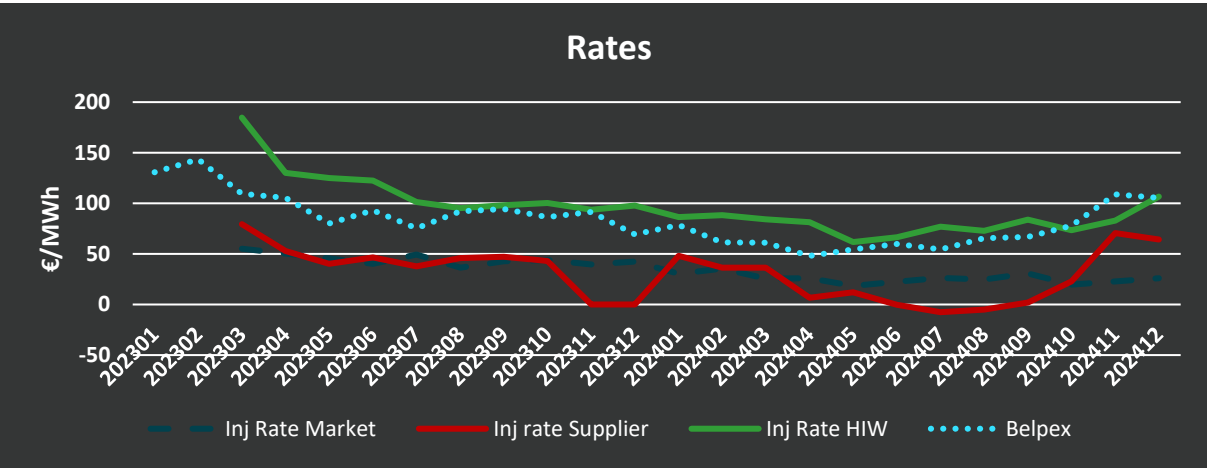


Figure 10 130 kWp installation monthly comparison injection rates

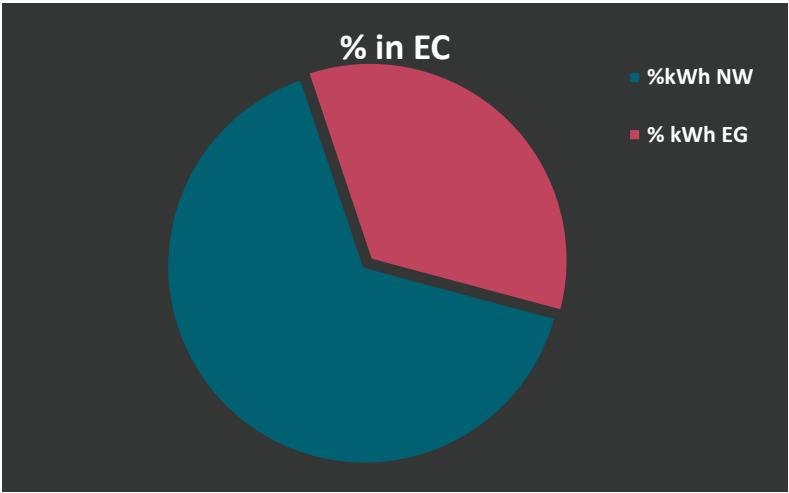


Figure 11 130 kWp installation –% destination injection



WESHARE

Title: Comparative analysis of the current practice

Project number: 101167685

Date: 31/07/2025