ENGAGE for ESG

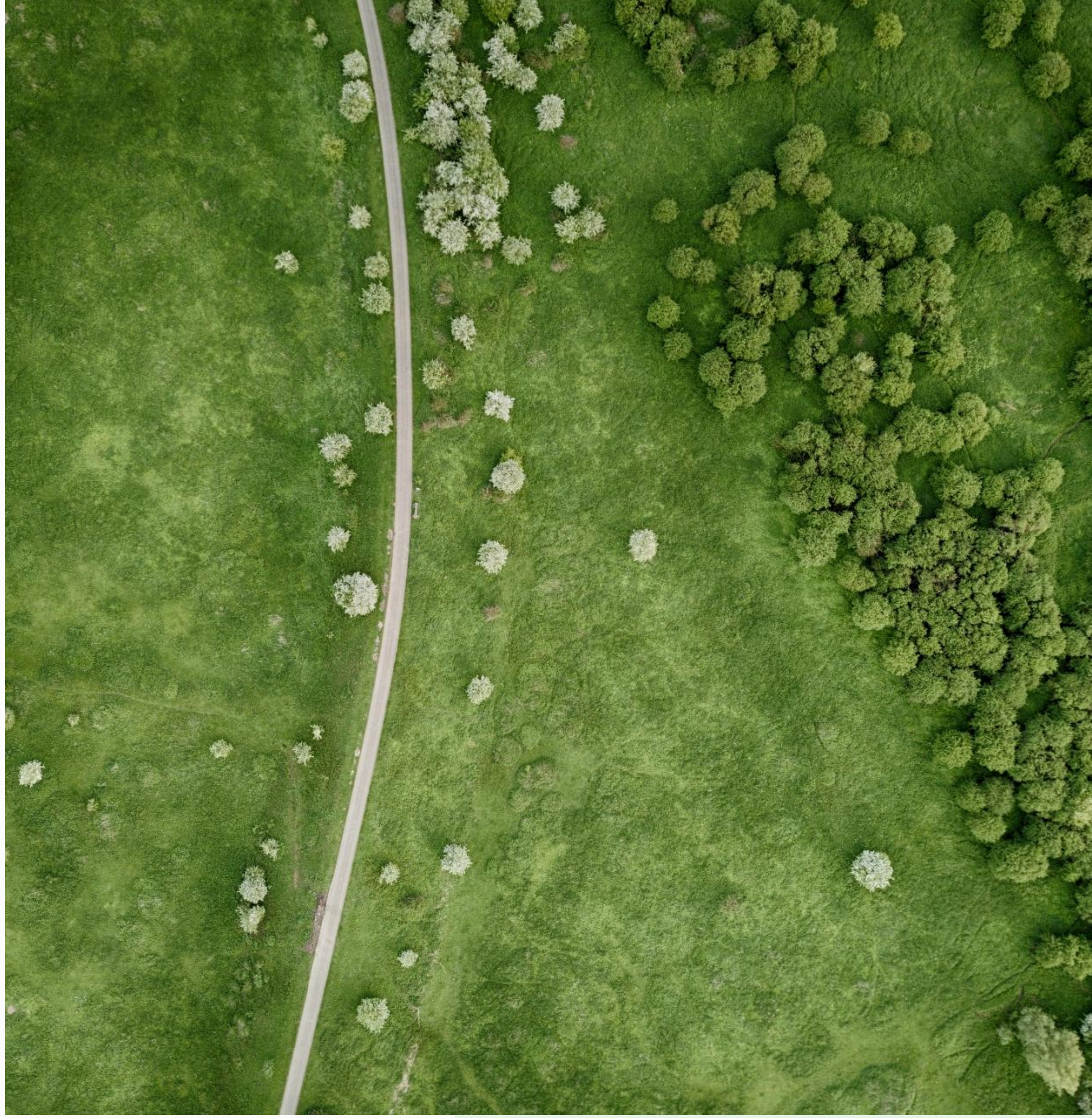
Smart ESG solution for green affordable housing

Wednesday, 8 July 2026

Co-funded by the European Union

Agenda

- *Welcome and introduction*
    - Marco Angheben, *European DataWarehouse*
- ***Energy efficiency and green mortgages: the case of Italy***
    - Ludovico Ridi, *Banca d'Italia*
- ***Aligning mortgages with the EU Taxonomy through the ENGAGE Templates and Portal: the NN Bank experience***
    - Martijn Breed, *NN Bank*
- ***The role of CPEA in the EU construction sector: cooperating with ENGAGE for ESG to boost EU Taxonomy assessments***
    - Seema Issar, *Climate Positive Europe Alliance (CPEA)*
- ***How to become an ENGAGE Portal user***
    - Marco Angheben, *European DataWarehouse*



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Today's Speakers

Marco Angheben
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ENGAGE Project Coordinator

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Welcome & Introduction

Marco Angheben

European DataWarehouse

ENGAGE for ESG initiative

- Launched in November 2022 and co-funded by the European Union with a LIFE grant.
- The ENGAGE for ESG initiative provides a simple solution for ESG reporting for mortgages and home renovation loans.
- Three new ENGAGE Portal users in the Netherlands, France and Belgium – more to come!

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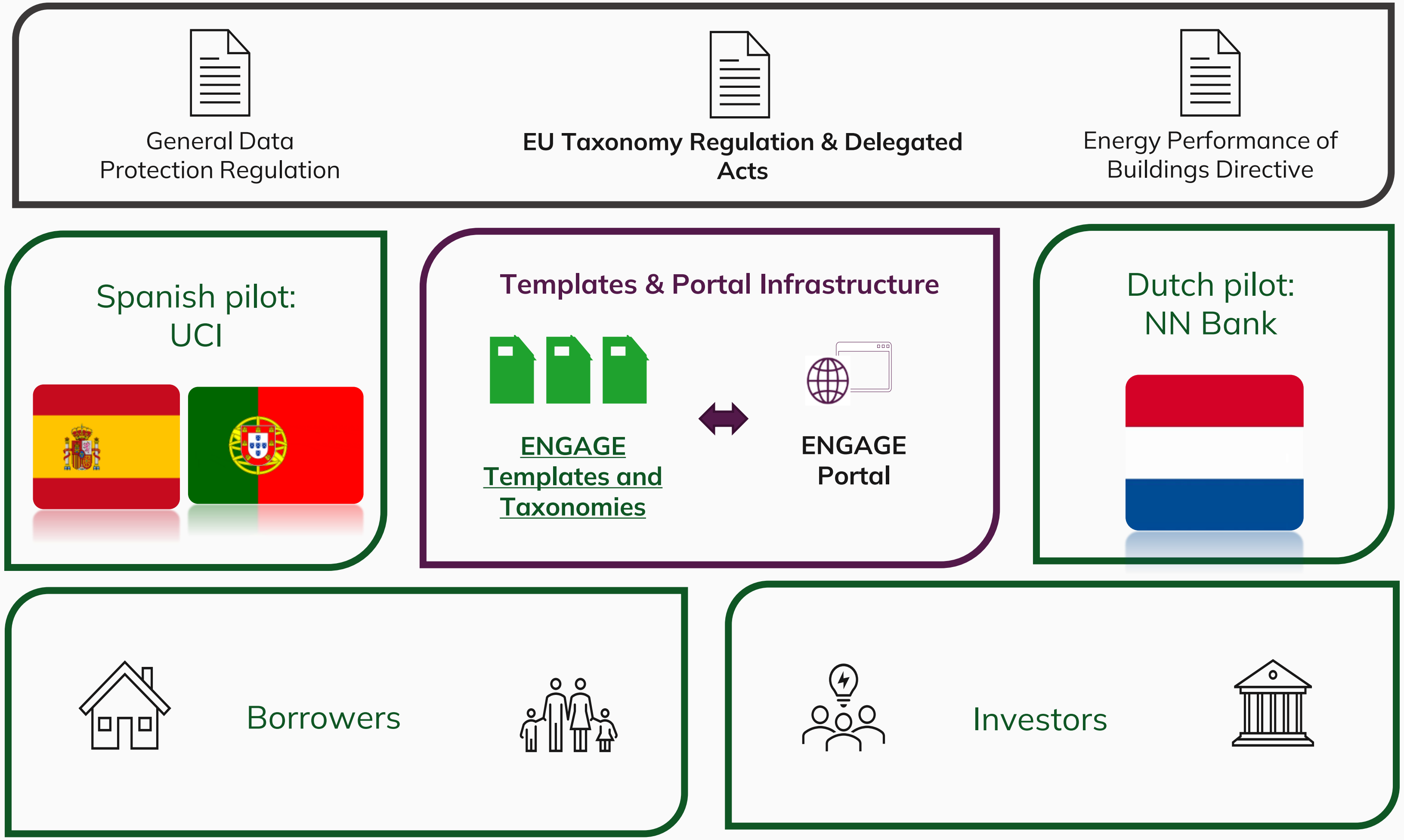
ENGAGE for ESG initiative description

Two main pillars:

1. A **disclosure template** for residential real estate data;
2. A **portal** to assess EU Taxonomy alignment and data quality.



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The ENGAGE Templates: structure

Building blocks 1 and 2 delivered

Building block 0

- Current ESMA underlying exposures for residential mortgages (Annex 2) and consumer loans (Annex 6)

Building block 1

- Compliance with the EU Taxonomy Regulation for:

a) Mortgages for the acquisition of new buildings and existing buildings;
b) Loans for the renovation of existing buildings.

Building block 2

- European Investment Bank information requirements (Group Green Checker) to capture funds from green financing programs for the financing of the renovation wave.

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The ENGAGE proposal: a limited number of data fields to check EU Taxonomy compliance

Green: the minimum data needed for SCC checks

Purple: minimum data for the DNSH check

Blue: PCAF / CO2 financed emissions

	FIELD CODE	CONTENT TO REPORT	Section 7.7.1 - EPC class A	Section 7.7.1 - Top 15%	Section 7.7.2 10% lower NZEB
Identifiers	EREC4	General Activity Designation	Y	Y	Y
SCC 7.7	EREC5	Construction Year	Y	Y	Y
	EREC7	Energy Performance Certificate (EPC) class	Y		
	EREC8	Estimated or officially produced EPC	Y		
	EREC9	Issuance date of most recent EPC	Y		Y
	EREC10	EPC original validity	Y		
	EREC14	Primary Energy Demand (PED) of the building			Y
	EREC18	Nearly zero-energy building (NZEB) threshold			Y
	EREC21	Building unit in top 15% indicator		Y	
	EREC23	Top 15% Object Reference Value		Y	
	EREC24	Top 15% Object Threshold Value		Y	
DNSH	EREC25	DNSH EO2 Indicator	Y	Y	Y
Financed Emissions	EREC36	Financed CO2 emission	Y	Y	Y
	EREC37	Surface area	Y	Y	Y
	EREC38	GHG Data Score	Y	Y	Y
	EREC39	GHG Emission Factor	Y	Y	Y
			7	6	6

Number of fields needed for the EU Taxonomy checks (section 7.7, Annex I CDA)

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ENGAGE for ESG: a tool for investors, rating agencies, regulators, and auditors

The ENGAGE solutions help you to:

- Gain insights into RMBS, covered bonds, and residential real estate mortgage and renovation loan portfolios
- Access granular information to prepare sustainability reports and calculate the Green Asset Ratio

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Green loans in Italy: an overview of the residential real estate market

Ludovico Ridi

Banca d'Italia

Energy efficiency and green mortgages

The case of Italy

European DatawareHouse

Online, 8 July 2026

Ludovico Ridi and Valeria Lionetti - Climate and Sustainability Hub

* The opinions expressed in this presentation are our own and may not represent those of the Bank of Italy.

Policy Background

Energy Performance of Buildings Directive (EPBD)

- For residential buildings, **national trajectory** to reduce the average primary energy use:
  - by **16 per cent by 2030** and by **20-22 per cent by 2035**, compared to 2020;
  - at least by **55 per cent of savings from the worst-performing buildings**, i.e. buildings in the bottom 43 per cent of the energy efficiency distribution.
- In accordance with Article 17, Member States – inter alia – shall:
  - promote the effective development and use of enabling funding and financial tools, such as **energy efficiency loans and mortgages for building renovations**.

Three Facts on Energy Efficiency in Italy

There exist **structural barriers** which hinder the ability of market participants to effectively unlock the potential of energy efficient loans and mortgages at the household-level:

- **Fact 1:** Demand from households for major renovations and energy efficiency improvements remains low in the absence of public support (De Blasio et al., 2024).
- **Fact 2:** Information and access to data on the energy efficiency of the Italian residential stock remains limited (Lavecchia et al., 2022).
- **Fact 3:** Local specificities are relevant in explaining differences in energy efficiency across territories (Loberto, 2023).

Fact 1: Limited demand for renovations

1. **In Italy, reported EPCs for the renovation of primary residences remain limited.**
   - In 2024, major renovations and renovations for energy efficiency improvements represented about 14 per cent in total EPCs (approximately 145,696 certificates) (SIAPE, 2026).
   - In 2024, most of energy efficiency improvement EPCs resulted in class A or B, with limited renovations in less efficient classes (SIAPE, 2026).
2. **Italian households face significant budget constraints.**
   - In 2024, households’ expenditure for housing were 23 per cent of total expenditures (OECD, 2025).
   - Households’ expenditures for electricity and heating rose by 0.7 percentage points in 1997-2024, mostly driven by rising energy prices (OIPE, 2025).
   - Low-income families usually live in less-efficient buildings and face the highest housing costs relative to their disposable income, with 9.1 per cent on Italian families in energy poverty (OIPE, 2025).

Fact 2: Limited data availability

1. **In Italy, energy efficiency distribution of existing buildings remains mostly unknown.**
   - The Italian Energy Performance Certificate System (SIAPE) has collected EPCs from 2016, but it does not report information which is representative of the Italian building stock (Lavecchia et al., 2022).
   - The Italian Institute of Statistics (ISTAT) collects dwelling-level information which is representative of the national building stock, but it does not collect information on energy efficiency.
   - Proxies based on public database have a low-level of accuracy rate (Bragiotti et al.,2024).
2. **In Italy, no easy and free access to complete EPCs as per the EPBD.**
   - SIAPE only publishes aggregate statistics on registered EPCs.
   - Complete EPC information remains unaccessible at the national level due to data protection rules (Italian Platform on Sustainable Finance steering by Ministry of Finance).

Fact 3: Relevance of local specificities

1. **The distribution of energy efficiency presents spatial heterogeneity at the national and regional level.**
    - In Italy, there exist differences in average energy efficiency, with energy efficient buildings mostly located in Northern regions and in cities (Loberto et. Al, 2023).
    - Differences in energy efficiency across territories also reflect variations in the structural features of buildings, mostly due to varying climatic conditions across Italy (climate zones).
2. **In Italy, differences in EPC calculation systems persist across regions.**
    - In Italy, there exist standardised guidelines for the certification of the energy efficiency of buildings. [1]
    - Several regions and autonomous provinces retain partially autonomous systems, encompassing distinct accreditation procedures, software platforms, control mechanisms, and, in some instances, methodological adaptations.

[1] See the Ministerial Decree of 26 June 2015 and the UNI/TS 11300 standard.

Evidence on Green Mortgages in Italy 2022-24

An increasing number of banks in Italy is seizing the opportunities associated with energy efficient loans and mortgages (Lionetti et al., 2026).

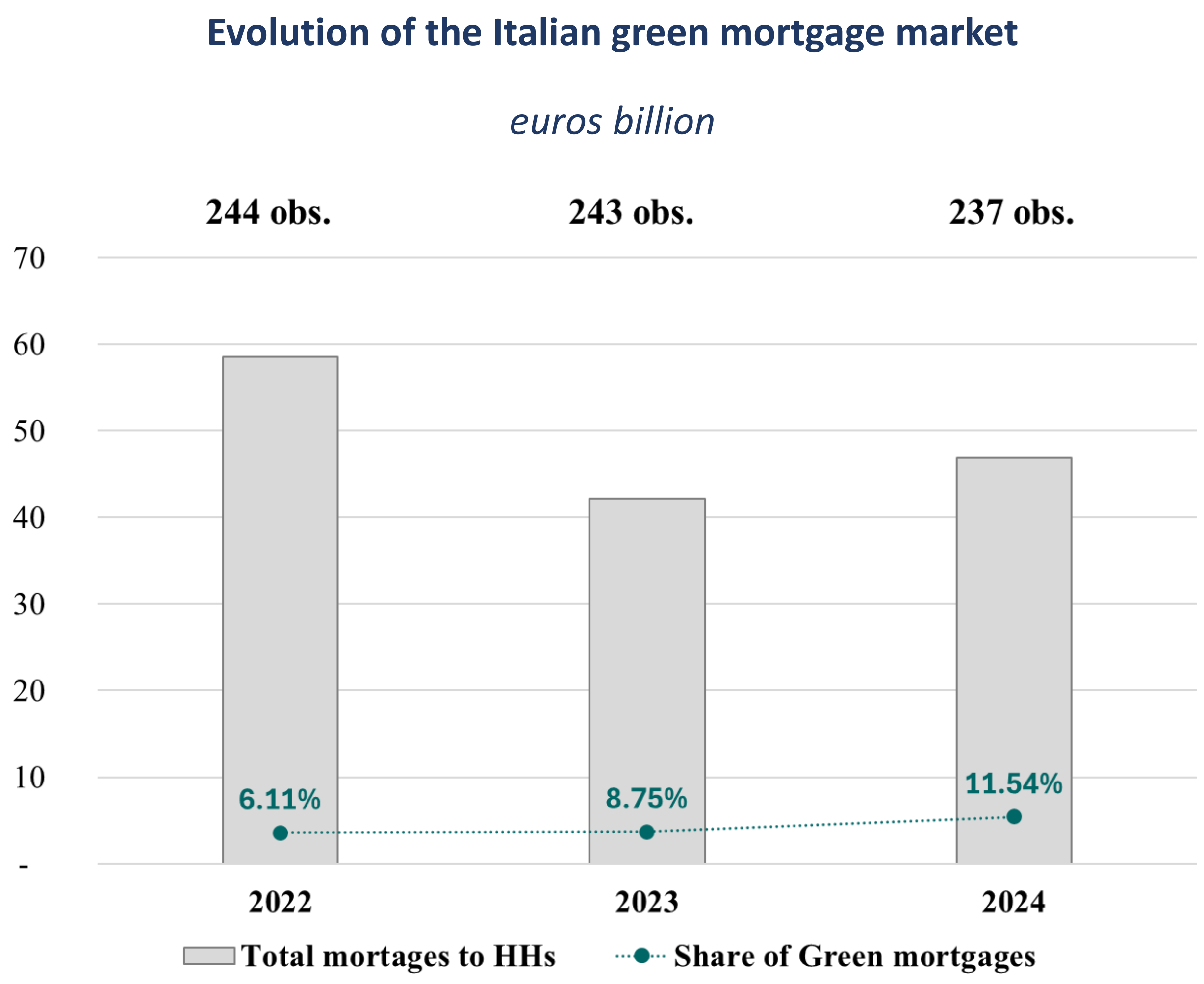
- **Definition of green mortgages for statistical purposes** – Secured loans financing:
  - **Acquisition and construction** of residential properties in **energy class A or B**; or
  - **Renovation** with energy efficiency improvements of **at least two classes**.

The proposed statistical definition of green mortgages:

✓ Simplifies criteria of the **EU Taxonomy** in line with **industry standards and recommendations of the EU Platform on Sustainable Finance**.

- Underpins **heterogenous market practices** and neglects **local specificities**.

Evidence on Green Mortgages in Italy 2022-24



The Italian green mortgage market is well-positioned for further expansion.

- **More Active Banks** - From 29 banks in 2022 to 69 in 2024.
- **Increasing Volumes** - green mortgages reached €5.4 billion in 2024 (12% of total mortgage flows), up from €3.5 billion in 2022 (6% of total mortgage flows).
- **Favourable Pricing** - the average discount ranges from 17–19 basis points on net interest rate and 22–26 basis points on annual percentage rate, with stronger discounts since the second half of 2023.

Conclusions

Energy efficient loans and mortgages offer market opportunities to the banking system, but their scalability requires a system-wide approach at the national level which allows to:

✓ **Remove existing structural barriers to the market:**

- Close existing data gaps and promote availability of high-quality inormation with policy relevance.
- Stimulate demand for energy renovations among households.
- Account for local specificities in accordance with national priorities.

✓ **Enable private finance by providing regulatory certainty to investors:**

- Reducing regulatory uncertainty on renovation plans, public initiatives and available funds.
- Streamline relevant energy efficiency information, based on market practices and policy recommendations.
- Identify effective practices by promoting dialogue among different stakeholders.

Thanks for your attention!

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Aligning mortgages with the EU Taxonomy through the ENGAGE Templates and Portal: the NN Bank experience

Martijn Breed

NN Bank

State of the Dutch mortgage market

- Just over 8 million homes
- 57% privately owned
- 60% have a valid EPC
- 21% have an EPC of A or better (i.e. EU Taxonomy aligned)

- Publicly available database EP-online
- Downloadable EPC-data for banks

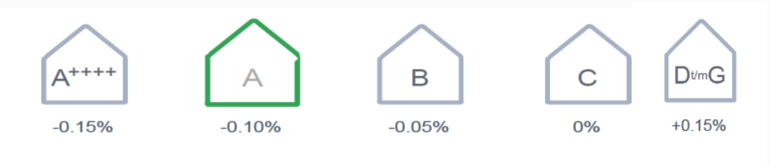
- 2026-2030: € 3 billion per year needed (€ 15 bn total)
- 2031-2050: € 78.5 billion needed in total

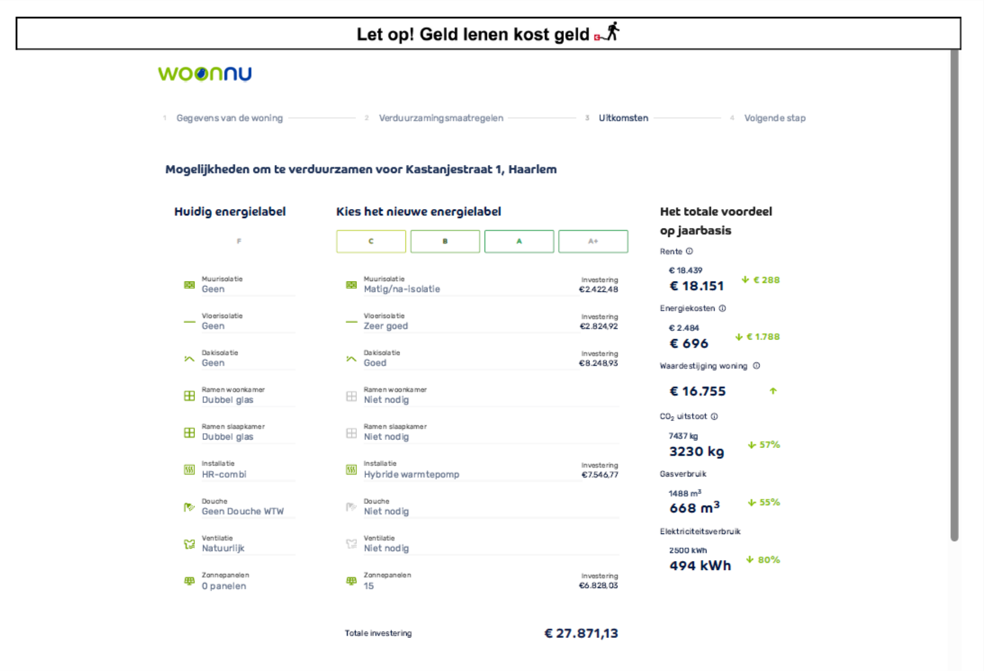
Examples of measures in place

- The law provides that consumers may borrow more (higher LTV and DTI) to make their homes more sustainable.
- Loans are available for sustainability measures at low interest rates, or sometimes even at zero interest (*Warmtefonds*).
- Government subsidies and local subsidies are available.
- Banks generally offer a discount on the entire mortgage loan for homes with an energy label A.
- Many online tools are available to provide an indication of the costs of making a home more sustainable.
- Banks point out the benefits of sustainability to customers, such as lower heating costs and more comfortable living.
- Many banks offer support to help customers find the right sustainability partners and guide them through the customer journey.

Woonnu add-ons to customer journey

- Introduction of interest rate discount for better energy labels
- AI-tooling providing insight in:
  - possible home-improvements
  - costs per conversion measure
  - expected savings on energy costs
  - new label after conversion
  - interest discount on mortgage loan
  - property value increase
  - expected decrease of the fosil energy usage
- On-site visit by sustainability advisor + report and offer
- Help with applying for subsidies
- New EPC





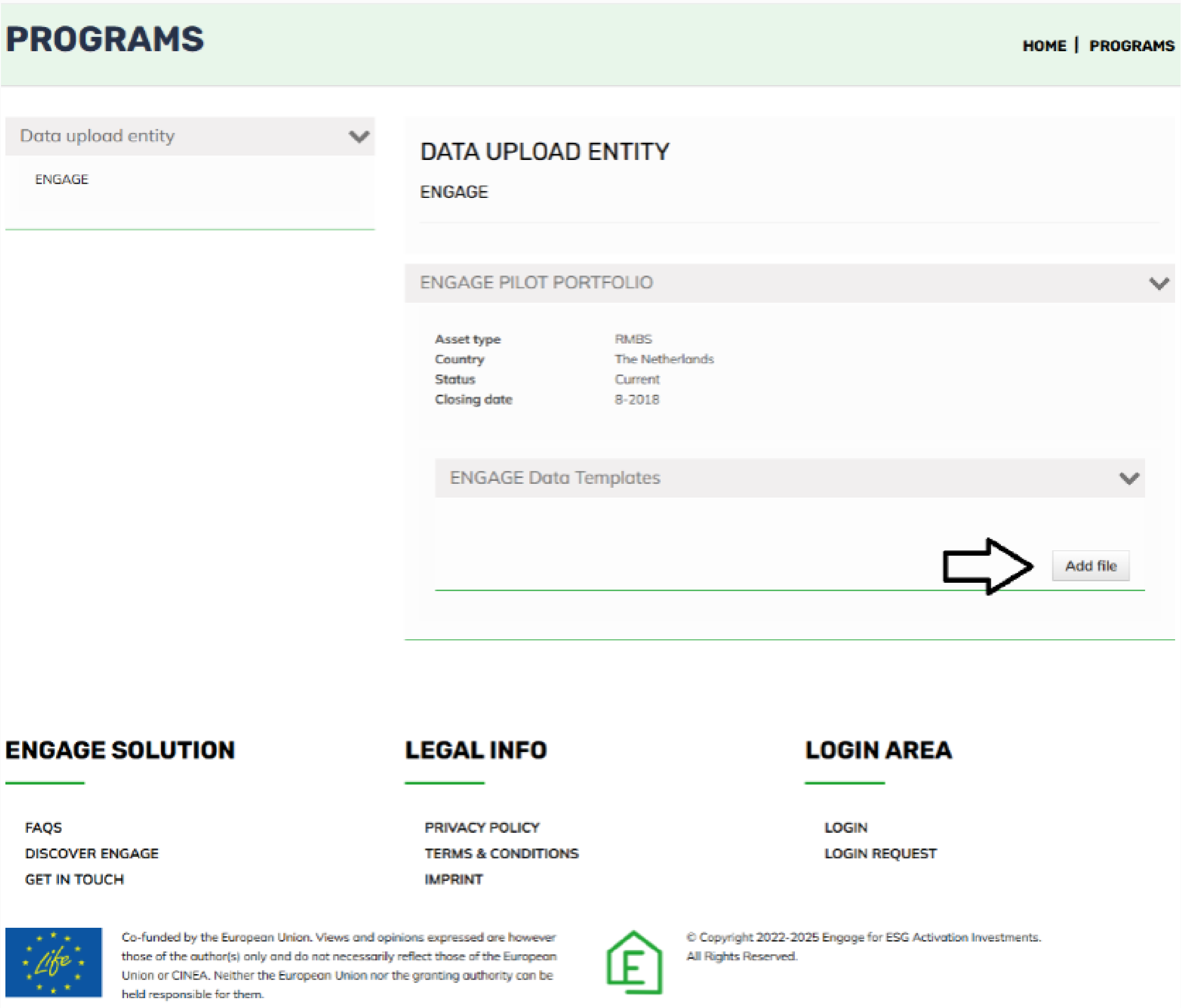
ENGAGE Templates data fields

ECONOMIC ACTIVITY INFORMATION	General Activity Designation						
BUILDING INFORMATION	Construction year*	Construction permit application date*					
ENERGY PERFORMANCE CERTIFICATE (EPC)	EPC class	Estimated or officially produced EPC	Issuance date of most recent available EPC registration	EPC validity lingth	EPC methodolgy	EPC status	EU-Equivalent EPC Method / EPBD-Regime
PRIMARY ENERGY DEMAND (PED)**	PED of the building	Estimated or officially produced PED	PED based on building or building unit	Nearly zero-energy building (NZEB) theshold	Climate area code	Geographic region – climate area	
TOP 15% CRIERIA	Building unit in top-15% indicator	Top15 explanatory variable	Top15 object reference value	Top15 object threshold value			
ENGAGE GOVERNANCE FILE – TOP 15% CRIERIA	Top15 document name	Top15 document issuance date	Top15 document URL	Top15 document geographic scope	Top15 numerator	Top15 denomerator	Top15 methodology description
ENGAGE GOVERNANCE FILE – OTHER	Description on how Minimum Safegaurds (MSS) are	URL towards MSS issuer statement	Environmental objective	Link alignment with the OECD Guidelines for Multinational	Link towards UN Guiding Principles on Business and	Link towards eight fundamental conventions (…)	

* Data can be provided, but data quality issues may exist

** For buildings with an EPC before 1-1-2021 PED data is not available

ENGAGE Portal



- Loan data (ESMA RREL based)
- ENGAGE collateral loan-tape (RRE: collateral loan specific file – building block 1)
- ENGAGE governance -tape (files such DNSH, minimum safeguards, top 15% etc. – building block 1)

ENGAGE EU Taxonomy alignment report

Portfolio Name	*Example Portfolio 2024*
Portfolio Date (DD-MM-YY)	*01-08-2024*
Total # of Loans	1300
Total # of Building Units	1100
Total Balance	€444,600,000.00
TSC passed %	**50.94%**

			TSC assessment*								
Section	**Economic Activity**	**Subsection**	**SCC (check passed)**			**DNSH* (check) passed**			**TSC Passed (SCC + DNSH)**		
			# of loans	# of Building Units	Balance	# of loans	# of Building Units	Balance	# of loans	# of Building Units	Balance
7.7(1)	Acquisition and ownership of buildings	*Buildings built before 31 December 2020: building has at least an Energy Performance Certificate (EPC) class A.*	460	411	€133,400,000.00	414	370	€120,060,000.00	411	363	€119,190,000.00
7.7(1a)		*Buildings built before 31 December 2020 - Alternative: building is within Top 15%*	392	301	€113,680,000.00	353	271	€102,370,000.00	349	301	€101,210,000.00
7.7(2)		*Buildings built after 31 December 2020*	23	22	€6,670,000.00	21	20	€6,090,000.00	21	22	€6,090,000.00
	Total		875	734	€253,750,000.00	788	661	€228,520,000.00	781	686	€226,490,000.00

Extract from an ENGAGE Portal EU Taxonomy alignment report

ENGAGE EU Taxonomy alignment report

Portfolio Name	*Example Portfolio 2024*
Portfolio Date (DD-MM-YY)	*01-08-2024*
Total # of Loans	1300
Total # of Building Units	1100
Total Balance	€444,600,000.00
TSC passed %	**50.94%**

TSC pass Total Portfolio

SCC (check passed)			DNSH (check) passed			TSC Passed (SCC + DNSH)		
% of all loans	% of total Building u	% of total Balance	% of total loans	% of total Building u	% of total Balance	% of total loans	% of total Building u	% of total Balance
35.38%	37.36%	30%	31.85%	33.64%	27%	31.62%	33.00%	27%
30.15%	27.36%	26%	27.15%	24.64%	23%	26.85%	27.36%	23%
1.77%	2.00%	2%	1.62%	1.82%	1%	1.62%	2.00%	1%
67.31%	66.73%	57.07%	60.62%	60.09%	51.40%	60.08%	62.36%	50.94%

Extract from an ENGAGE Portal EU Taxonomy alignment report

ENGAGE loan-by-loan

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	RREC2	RREC3	RREC4	RREC5	RREC6	RREC7	RREC8	RREC9	RREC10	RREC11	RREC12	RREC13	RREC13_CURRENCY	RREC14	RREC15	RREC16	RREC17	RREC17_CURRENCY	RREC18	RREC19	RREC20	RREC21	RREC21_CURRENCY	RREC23	
2	10273163201	533330	533330	RBLD	NL211	FOWN	2	RHOS	EPCA	ND5	77.82	400000	EUR	FIEI	2021-07-08	ND5	400000	EUR	FIEI	2021-07-08	ND5	ND5	EUR	NGUA	
3	10273163202	533330	533330	RBLD	NL211	FOWN	2	RHOS	EPCA	ND5	77.82	400000	EUR	FIEI	2021-07-08	ND5	400000	EUR	FIEI	2021-07-08	ND5	ND5	EUR	NGUA	
4	10273163213	533330	533330	RBLD	NL211	FOWN	2	RHOS	EPCA	ND5	77.82	400000	EUR	FIEI	2021-07-08	86.35	400000	EUR	FIEI	2021-07-08	ND5	ND5	EUR	NGUA	
5	10273164701	533339	533339	RBLD	NL413	FOWN	1	RHOS	ND5	ND5	85.35	215000	EUR	FIEI	2015-12-14	ND5	ND4-2021-12-31	EUR	ND4-2021-12-31	ND4-2021-12-31	ND5	ND5	EUR	NHGX	
6	10273164702	533339	533339	RBLD	NL413	FOWN	1	RHOS	ND5	ND5	85.35	215000	EUR	FIEI	2015-12-14	ND5	ND4-2021-12-31	EUR	ND4-2021-12-31	ND4-2021-12-31	ND5	ND5	EUR	NHGX	
7	10273166402	533346	533346	RBLD	NL342	FOWN	1	RHOS	ND5	ND5	45.47	260000	EUR	FIEI	2016-03-03	ND5	ND4-2021-12-31	EUR	ND4-2021-12-31	ND4-2021-12-31	ND5	ND5	EUR	NGUA	
8	10273166403	533346	533346	RBLD	NL342	FOWN	1	RHOS	ND5	ND5	45.47	260000	EUR	FIEI	2016-03-03	ND5	ND4-2021-12-31	EUR	ND4-2021-12-31	ND4-2021-12-31	ND5	ND5	EUR	NGUA	
9	10273166405	533346	533346	RBLD	NL342	FOWN	1	RHOS	ND5	ND5	45.47	260000	EUR	FIEI	2016-03-03	ND5	ND4-2021-12-31	EUR	ND4-2021-12-31	ND4-2021-12-31	ND5	ND5	EUR	NGUA	
10	10273168701	533364	533364	RBLD	NL230	FOWN	1	RHOS	EPCB	ND5	80.35	535000	EUR	FIEI	2016-02-18	ND5	ND4-2021-12-31	EUR	ND4-2021-12-31	ND4-2021-12-31	ND5	ND5	EUR	NGUA	
11	10273168701	533365	533365	RBLD	NL230	FOWN	1	RHOS	ND5	ND5	80.35	535000	EUR	FIEI	2016-02-18	ND5	ND4-2021-12-31	EUR	ND4-2021-12-31	ND4-2021-12-31	ND5	ND5	EUR	NGUA	
12	10273168702	533364	533364	RBLD	NL230	FOWN	1	RHOS	EPCB	ND5	80.35	535000	EUR	FIEI	2016-02-18	ND5	ND4-2021-12-31	EUR	ND4-2021-12-31	ND4-2021-12-31	ND5	ND5	EUR	NGUA	
13	10273168702	533365	533365	RBLD	NL230	FOWN	1	RHOS	ND5	ND5	80.35	535000	EUR	FIEI	2016-02-18	ND5	ND4-2021-12-31	EUR	ND4-2021-12-31	ND4-2021-12-31	ND5	ND5	EUR	NGUA	
14	10273168703	533364	533364	RBLD	NL230	FOWN	1	RHOS	EPCB	ND5	80.35	535000	EUR	FIEI	2016-02-18	ND5	ND4-2021-12-31	EUR	ND4-2021-12-31	ND4-2021-12-31	ND5	ND5	EUR	NGUA	
15	10273168703	533365	533365	RBLD	NL230	FOWN	1	RHOS	ND5	ND5	80.35	535000	EUR	FIEI	2016-02-18	ND5	ND4-2021-12-31	EUR	ND4-2021-12-31	ND4-2021-12-31	ND5	ND5	EUR	NGUA	
16	1.05036E+11	5025716	5025716	RBLD	NL411	FOWN	1	RHOS	EPCA	ND5	71.97	173500	EUR	MAEA	2015-08-14	89.34	173500	EUR	MAEA	2015-07-06	ND5	ND5	EUR	NGUA	
17	1.0504E+11	5031272	5031272	RBLD	NL411	FOWN	1	RHOS	ND5	ND5	59.94	550000	EUR	FIEI	2014-10-22	ND5	550000	EUR	FIEI	2014-10-22	ND5	ND5	EUR	NGUA	
18	1.0504E+11	5031272	5031272	RBLD	NL411	FOWN	1	RHOS	ND5	ND5	59.94	550000	EUR	FIEI	2014-10-22	ND5	550000	EUR	FIEI	2014-10-22	ND5	ND5	EUR	NGUA	
19	1.0504E+11	5031272	5031272	RBLD	NL411	FOWN	1	RHOS	ND5	ND5	59.94	550000	EUR	FIEI	2014-10-22	ND5	550000	EUR	FIEI	2014-10-22	ND5	ND5	EUR	NGUA	
20	1.0504E+11	5031272	5031272	RBLD	NL411	FOWN	1	RHOS	ND5	ND5	59.94	550000	EUR	FIEI	2014-10-22	ND5	550000	EUR	FIEI	2014-10-22	ND5	ND5	EUR	NGUA	
21	1.0504E+11	5031272	5031272	RBLD	NL411	FOWN	1	RHOS	ND5	ND5	59.94	550000	EUR	FIEI	2014-10-22	ND5	550000	EUR	FIEI	2014-10-22	ND5	ND5	EUR	NGUA	
22	1.05041E+11	5032614	5032614	RBLD	NL413	FOWN	1	RHOS	EPCA	ND5	76.74	539000	EUR	FIEI	2018-01-01	103.75	539000	EUR	TXAT	2018-01-01	ND5	ND5	EUR	NGUA	
23	1.05041E+11	5032614	5032614	RBLD	NL413	FOWN	1	RHOS	EPCA	ND5	76.74	539000	EUR	FIEI	2018-01-01	103.75	539000	EUR	TXAT	2018-01-01	ND5	ND5	EUR	NGUA	
24	1.05041E+11	5032614	5032614	RBLD	NL413	FOWN	1	RHOS	EPCA	ND5	76.74	539000	EUR	FIEI	2018-01-01	87.9	539000	EUR	TXAT	2018-01-01	ND5	ND5	EUR	NGUA	
25	1.05041E+11	5033281	5033281	RBLD	NL230	FOWN	1	RHOS	EPCA	ND5	41.68	850000	EUR	FIEI	2023-08-31	49.02	850000	EUR	FIEI	2023-08-31	ND5	ND5	EUR	NGUA	
26	1.05041E+12	5033281	5033281	RBLD	NL230	FOWN	1	RHOS	EPCA	ND5	41.68	850000	EUR	FIEI	2023-08-31	ND5	850000	EUR	FIEI	2023-08-31	ND5	ND5	EUR	NGUA	
27	1.05041E+12	5033281	5033281	RBLD	NL230	FOWN	1	RHOS	EPCA	ND5	41.68	850000	EUR	FIEI	2023-08-31	ND5	850000	EUR	FIEI	2023-08-31	ND5	ND5	EUR	NGUA	
28	1.05041E+12	5033281	5033281	RBLD	NL230	FOWN	1	RHOS	EPCA	ND5	41.68	850000	EUR	FIEI	2023-08-31	ND5	850000	EUR	FIEI	2023-08-31	ND5	ND5	EUR	NGUA	
29	1.05041E+12	5033281	5033281	RBLD	NL230	FOWN	1	RHOS	EPCA	ND5	41.68	850000	EUR	FIEI	2023-08-31	ND5	850000	EUR	FIEI	2023-08-31	ND5	ND5	EUR	NGUA	
30	1.05041E+12	5033281	5033281	RBLD	NL230	FOWN	1	RHOS	EPCA	ND5	41.68	850000	EUR	FIEI	2023-08-31	46.88	850000	EUR	FIEI	2023-08-31	ND5	ND5	EUR	NGUA	
31	1.05042E+11	5033908	5033908	RBLD	NL324	FOWN	1	RHOS	EPCA	ND5	56.84	950000	EUR	FIEI	2023-04-13	104	625000	EUR	MAEA	2015-06-25	ND5	ND5	EUR	NGUA	
32	1.05042E+11	5033908	5033908	RBLD	NL324	FOWN	1	RHOS	EPCA	ND5	56.84	950000	EUR	FIEI	2023-04-13	104	625000	EUR	MAEA	2015-06-25	ND5	ND5	EUR	NGUA	
33	1.05042E+11	5033908	5033908	RBLD	NL324	FOWN	1	RHOS	EPCA	ND5	56.84	950000	EUR	FIEI	2023-04-13	104	625000	EUR	MAEA	2015-06-25	ND5	ND5	EUR	NGUA	
34	1.05042E+11	5033908	5033908	RBLD	NL324	FOWN	1	RHOS	EPCA	ND5	56.84	950000	EUR	FIEI	2023-04-13	104	625000	EUR	MAEA	2015-06-25	ND5	ND5	EUR	NGUA	
35	1.05042E+11	5033908	5033908	RBLD	NL324	FOWN	1	RHOS	EPCA	ND5	56.84	950000	EUR	FIEI	2023-04-13	104	625000	EUR	MAEA	2015-06-25	ND5	ND5	EUR	NGUA	

The role of CPEA in the EU construction sector: cooperating with ENGAGE for ESG to boost EU Taxonomy assessments

Seema Issar

Climate Positive Europe Alliance (CPEA)

How it started...

- Professional Network of like-minded professionals that came together in 2020 to found the Climate Positive Europe Alliance (CPEA Aisbl) as a non-for-profit think tank based in Brussels

GREEN BUILDING COUNCIL DENMARK

ÖGNI AUSTRIAN SUSTAINABLE BUILDING COUNCIL

DGNB Deutsche Gesellschaft für Nachhaltiges Bauen German Sustainable Building Council

GBCe GREEN BUILDING COUNCIL ESPAÑA

G17

CPEA Climate Positive Europe Alliance

Who we are now...

Professional Network of like-minded professionals

Alliance HQE
GBC FRANCE

BGBC
BELGIAN GREEN BUILDING COUNCIL

ace-cae.eu

ÖGNI
AUSTRIAN SUSTAINABLE BUILDING COUNCIL

SGNI
Swiss Sustainable Building Council

DGNB
Deutsche Gesellschaft für Nachhaltiges Bauen
German Sustainable Building Council

GBC
GREEN BUILDING COUNCIL CROATIA

GREEN BUILDING COUNCIL DENMARK

GBCe
GREEN BUILDING COUNCIL ESPAÑA

The CPEA Team

Dr. Christine Lemaitre
Chair
CEO DGNB

Bruno Sauer
Vice-Chair
CEO GBCe

Dean Smolar
Secretary of the Board CPEA
CEO at CGBC

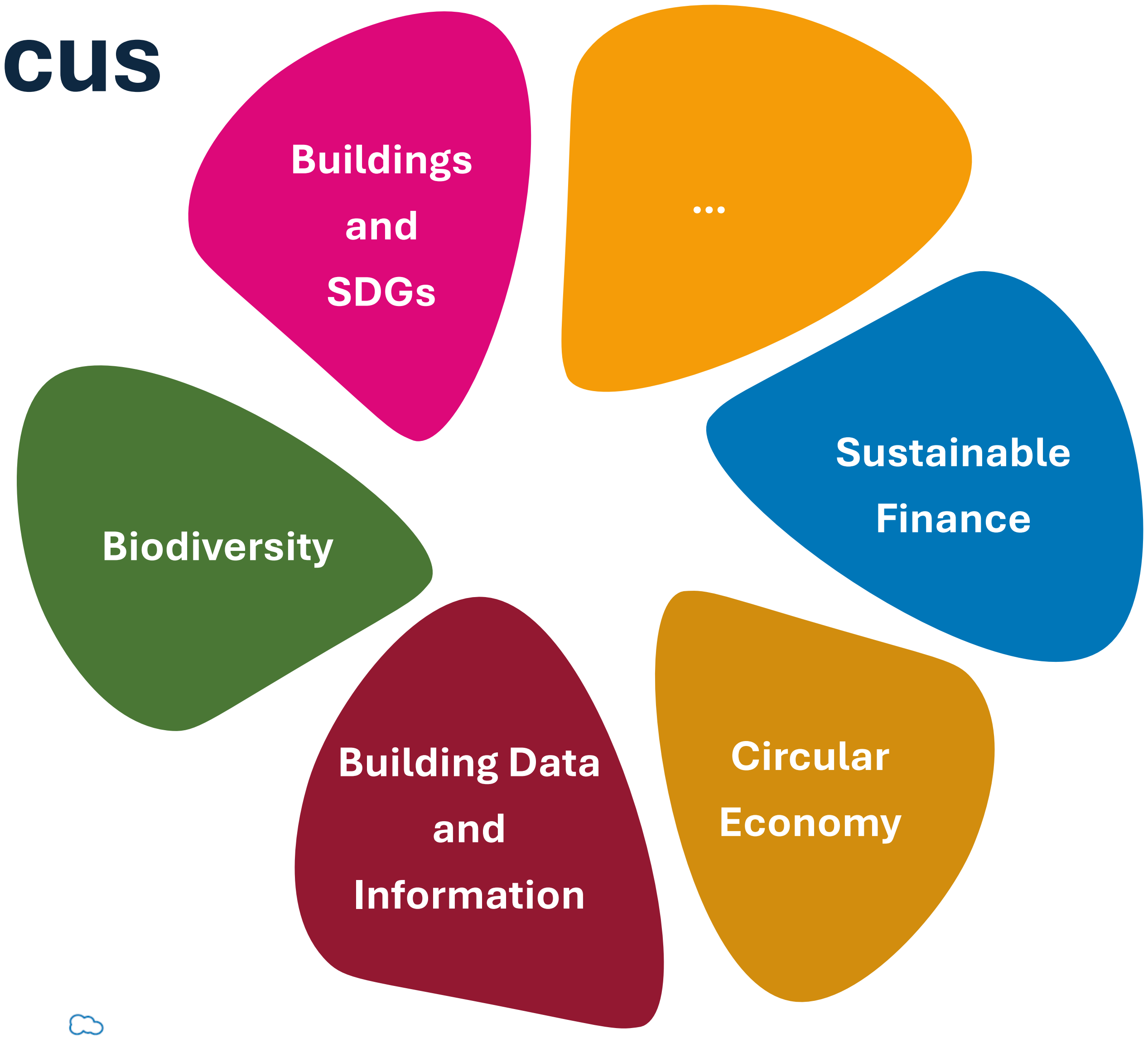
Ursula Hartenberger
Secretary General
CPEA

Seema Issar
Head of Sustainable
Finance and Taxonomy
CPEA

Our Mission

Collaboratively **accelerate market transformation** towards a climate positive Europe by **collaboration**, facilitating **cross-sectoral dialogue** and providing **sectoral insights** and tangible solutions for the most pressing challenges faced by the construction and real estate stakeholder community.

CPEA Focus


Buildings and SDGs
...
Sustainable Finance
Circular Economy
Building Data and Information
Biodiversity

CPEA Climate Positive Europe Alliance

Unique Approach

- CPEA adopts a **collaborative, bottom-up, market-driven** capacity-building approach, grounded in **years of hands-on experience** in sustainability certification for buildings and districts.
- Using the **European DGNB methodology**, our **data-driven, fact-based** process covers:
  - Life-cycle assessment
  - Life-cycle costing
  - Building material requirements
  - Indoor air quality & comfort

How to get involved

Alliance Member*

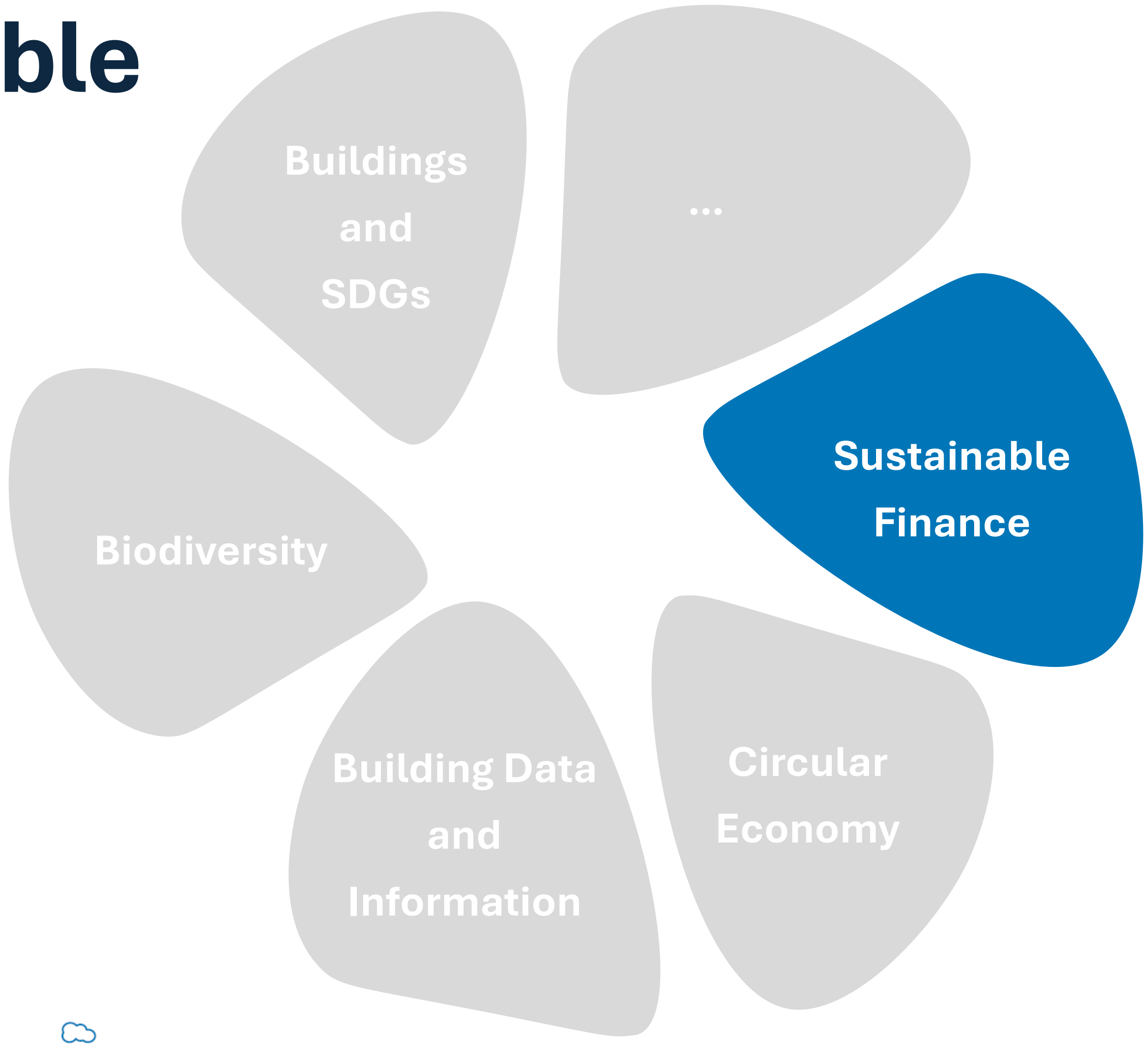
Founding Member*

Alliance Supporter

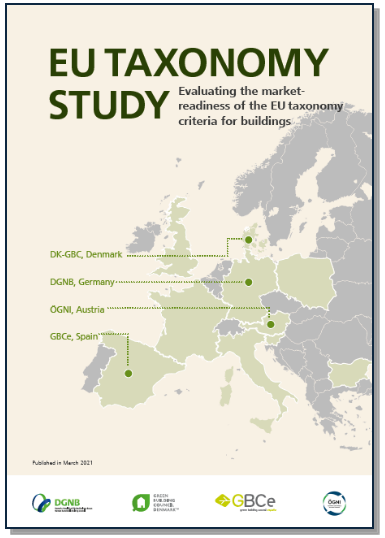
Emerging Alliance Member*

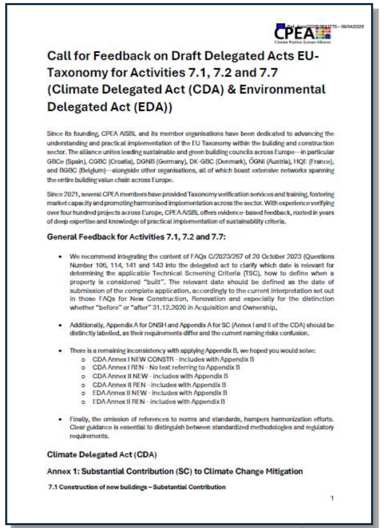
*applicable for Taxonomy Partnership

Sustainable Finance



Sustainable Finance: Reports & Recommendations

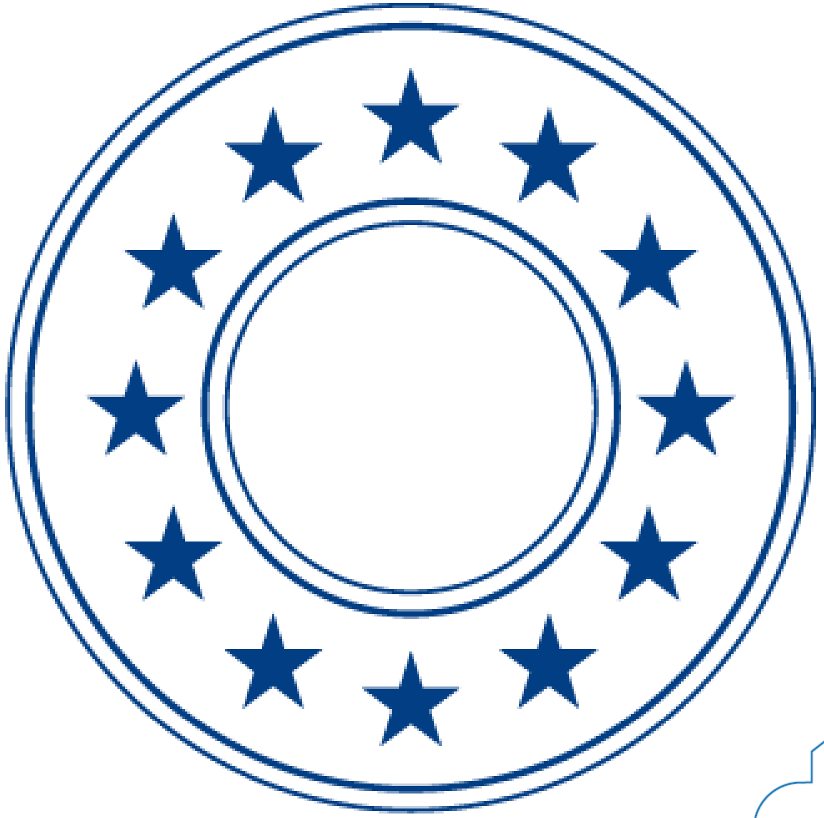




CPEA Taxonomy Partnership: Unified Verification for Europe

- **Objective:**
  Broadening Taxonomy verification services and strengthening knowledge sharing through a **unified methodology**, ensuring consistent approaches across countries.

- **Governance Structure:**
  - Technical Board: Experts from GBCs
  - Strategic Board: Market players



EU Taxonomy Verification Process

Project Registration

- Applicant/ Taxonomy consultant registers the project
- GBC assigns a project ID and sends contract and invoice, templates and guidelines

Project Submission

- Taxonomy consultant submits documentation package
- GBC performs pre-check to ensure completeness

Verification Assessment

- Conformity assessor evaluates compliance of submitted documents and records gaps and results

Project Completion

- GBC issues Taxonomy Verification Report

Benefits of CPEA Standard

CPEA Climate Positive Europe Alliance

Objective: Ensure credibility, consistency, and market acceptance of Taxonomy verifications.

- **Governance Oversight**
- **Harmonized Verification**
- **Brand recognition and standardized reporting**
- **Continuous Improvement**
- **Transparency & Traceability**
- **Structured QA Framework**

CPEA Standard Minimum Requirements for Taxonomy Verification

Declaration on Compliance on:

- ✓ Impartiality
- ✓ Transparency
- ✓ Standardized Reporting
- ✓ Annual Reporting to CPEA
- ✓ Branding & Communication
- ✓ Technical Board Participation

Involved stakeholders

CPEA Climate Positive Europe Alliance

Applicant

- Submits documentation, appoints consultant/auditor, and receives verification results.

Taxonomy consultant/auditor

- Guides the applicant, prepares submissions, and communicates with the verification body.

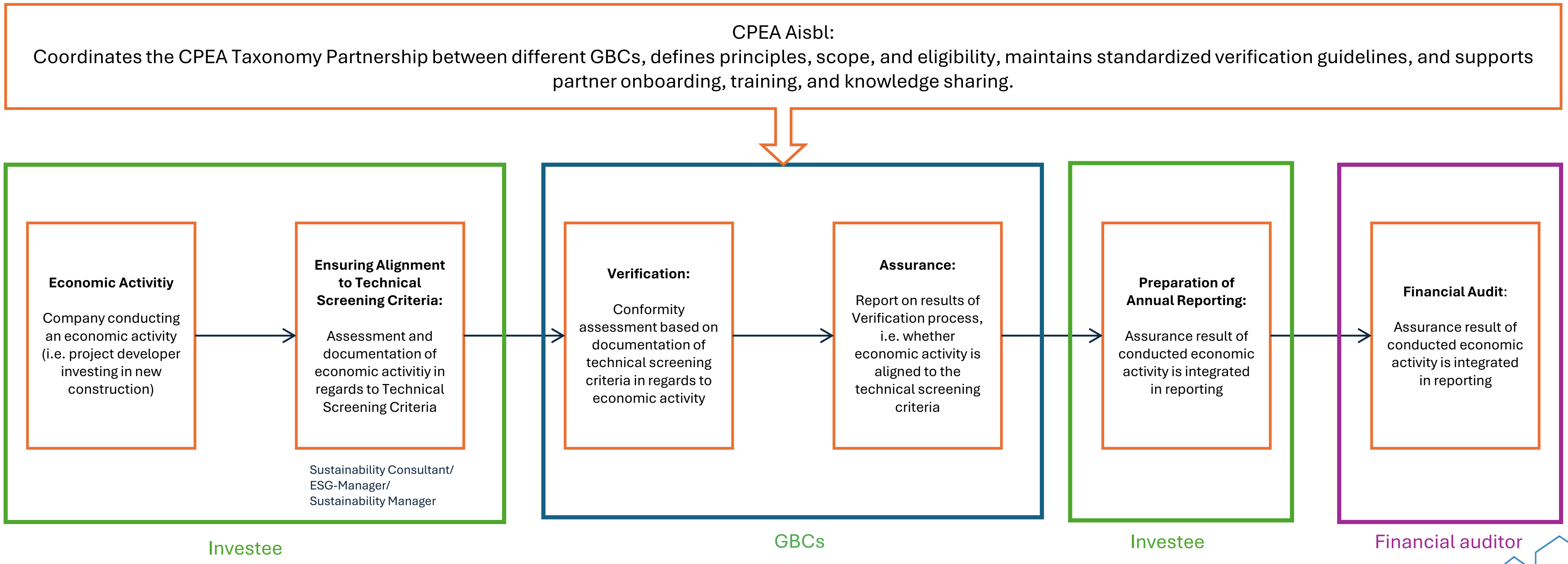
GBC verification body

- Manages documents, templates, and verification execution; coordinates the conformity assessor; ensures impartiality and quality of the verification process.

Conformity assessor

- Independently reviews submitted documents to ensure compliance; may be internal or external to the GBC.

Taxonomy verification process

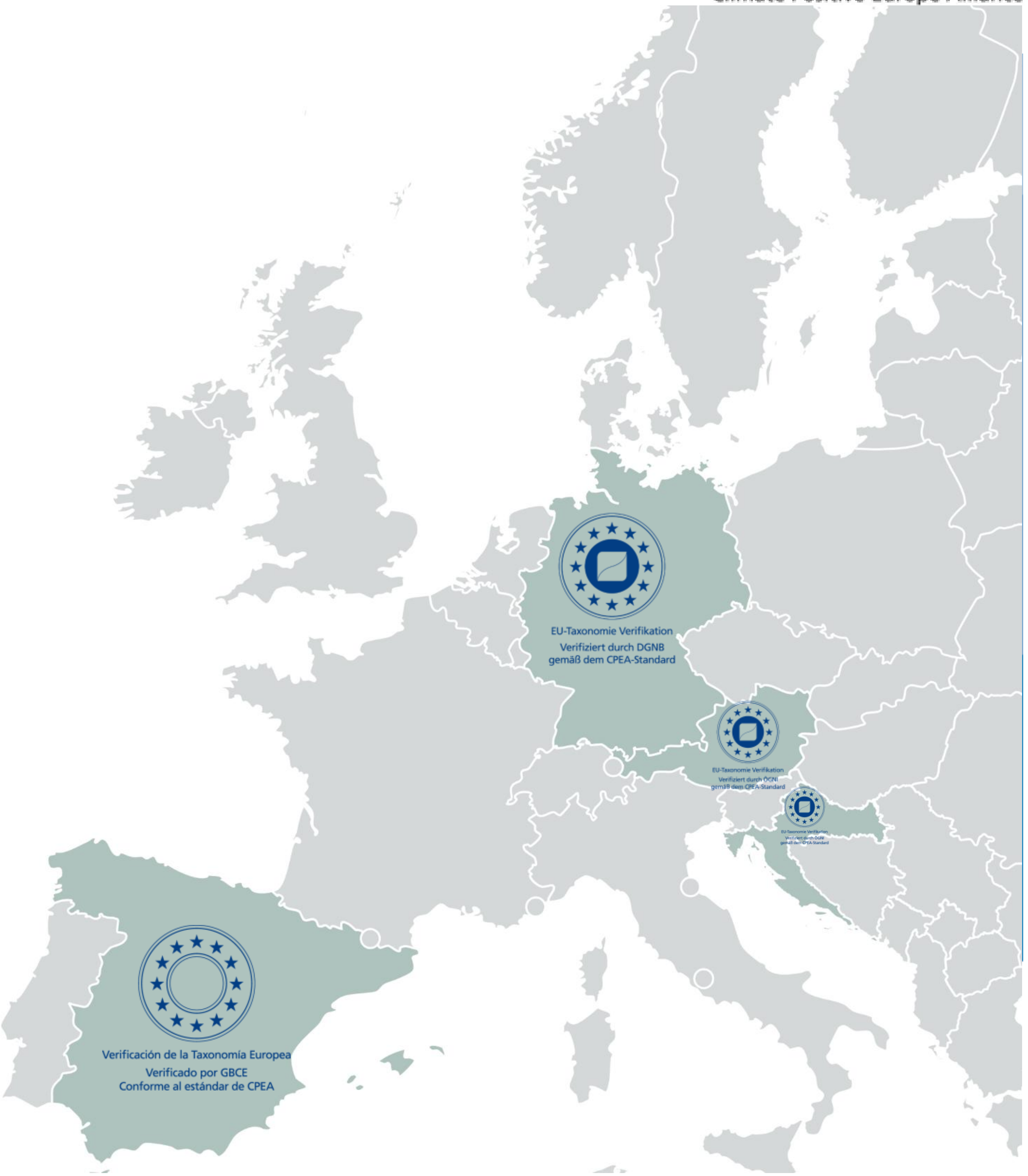


CPEA
Climate Positive Europe Alliance

CPEA Taxonomy Verification Partnership

- For Green Building Councils in Europe offering Taxonomy verification services (available to CPEA members):
    - GBCe
    - DGNB
    - ÖGNI
    - GBC Croatia

CPEA Taxonomy Partner



EU Taxonomy Verification Services

DGNB System

ESG-VERIFIKATION ZUR EU-TAXONOMIE

Anforderungskatalog
Neubau

Stand 06 / 2026

Validation/Verification of the European Taxonomy | *V2025-01 February 2025* Technical Manual

Substantial contribution to climate change adaptation (NC-CS-ADA)

NC-CS-ADA1 CLIMATE RISK ASSESSMENT

EUROPEAN TAXONOMY REQUIREMENT

Physical climate risks that are material to the activity have been identified from those listed in *Annex 2A: CS and DNSH Climate Change Adaptation* by conducting a robust assessment of vulnerabilities and climate risks comprising the following stages:

a) an analysis of the activity to identify the physical climate risks that may affect the performance of the economic activity throughout its expected lifetime

b) if it is determined that the activity is exposed to a risk due to one or more of the risks, an assessment of vulnerabilities and climate risks to determine the significance or materiality of the physical climate risks to the economic activity;

c) an assessment of adaptation solutions that could reduce the identified physical climate risk.

In the case of activities with an expected duration of more than ten years, the assessment shall be carried out using the highest-resolution and most advanced climate projections available within the existing range of future scenarios [10] compatible with the expected duration of the activity, including, at a minimum, climate projection scenarios spanning ten to thirty years where significant investments are involved.

Climate projections and impact assessments are based on best available practices and guidance and take into account the most up-to-date scientific information on

[10] Future scenarios include the Representative Concentration Pathways RCP2.6, RCP4.5, RCP6.0 and RCP8.5 of the Intergovernmental Panel on Climate Change ( ).

GBCe 24

Transition to a Circular Economy

APPLICABILITY	OBJECTIVE	CRITERIA
Construction of new buildings NC	**Contribute substantially** (CS) to a transition toward a circular economy in the construction of new buildings	1. All construction and demolition waste (CDW) generated is managed in accordance with the comprehensive checklist of **the EU CDW Management Protocol**, in particular by establishing sorting systems and pre-demolition audits. **90% (by weight) of the non-hazardous CDW** generated (excluding excavated soil) is prepared for reuse or recycling (excluding fill material). Compliance is demonstrated by reporting on Level(s) indicator 2.2, using the format included in Level 2. 2. Calculation of **the building's global warming potential (GWP)** at each stage of its life cycle, following the methodology and reporting format for Level(s) indicator 1.2. This information will be disclosed to investors and clients upon request. 3. **Designs and construction techniques reinforce circularity** by incorporating concepts for **adaptability and deconstruction into** the **design**. Compliance with this requirement is demonstrated by reporting on Level(s) indicators 2.3 and 2.4 at Level 2.

Circular Economy

GBCe

ÖGNI CLIMATE GUIDANCE Version 2024 - substantial contribution and DNSH-criteria EU-Taxonomy Sector - construction and real estate for furhter questions please contact: petra.kuehnel@ogni.at

Date of the Document: 06/02/2026

o **Taxonomy Regulation** (EU) **2020/852** of 18.06.2020

o **Climate Delegated Act ("CDA") - substantial contribution** environmental **objectives 1 and 2** for **7.1 new construction , 7.2 renovation , 7.7 acquisition and ownership**
- Del. Regulatin (EU) **2021/2139** of 04.06.2021 / Del. Regulation (EU) **2023/2485** of 27.06.2023 / Del. Regulation (EU) **2026/73** of 4.07.2025

o **Environmental Delegated Act ("EDA) - substantial contribution** environmental **objective 4** for **3.1 new construction and 3.2 renovation**
(Del. Regulation (EU) **2023/2486** of 27.06.2023 / Del. Regulation (EU) **2026/73** of 4.07.2025

The "**ÖGNI Climate Guidance"** is a dynamic working tool designed to **provide structured support** for implementing the requirements of **Environmental Objective 2 "Climate Change Adaptation" under the EU Taxonomy.**
This Excel-based tool not only documents the relevant legal foundations but also offers practical guidance in additional tabs to support structured implementation within the scope of the **ÖGNI EU-Taxonomy Verification (Third-Party Verification).**

Key elements of the guideline include:
- A 4-step guidance for conducting robust a climate risk and vulnerability assessments ("CRA"),
- A systematic listing and numbering of climate-related risks in accordance with Annex A (bilingual: EN/DE),
- A comparison of the requirements for "substantial contribution" and DNSH, including explanatory additional information,
- Templates and checklists to support structured evidence gathering,
- An optional sensitivity checklist and an overview of possible adaptation solutions

Note: An EU Taxonomy Verification (EU Taxonomy Compliance Assessment) carried out in accordance with ÖGNI and aligned with the documentation requirements set out in this guideline is based on ÖGNI's interpretation of the intent behind the applicable provisions and regulations. The technical screening criteria of the EU Taxonomy Regulation are reviewed and, if necessary, updated by the European Commission at regular intervals pursuant to Article 19(5). As a result, this document may be subject to future amendments—especially in response to clarifications from external bodies and/or additional interpretations of the EU Taxonomy Regulation.

The Guidance is continuously updated to dynamically incorporate new regulatory requirements or interpretations, without adapting its terminology with each future revision of scenario definitions (e.g. RCP → SSP).

Interpretation assistance:
o EU-level technical guidance on adapting buildings to climate change_March 2023 - https://build-up.ec.europa.eu/en/resources-and-tools/publications/eu-technical-guidance-adapting-buildings-climate-change
o FAQs C/2023/267 of 20.10.2023 und FAQs C/2025/1373 of 05.03.2025

4-step-guidance for conduction a
robuste climate risk and vulnerability analysis **(CRA)**

Step 1 Determination of the **expected lifespan** for the **economic activity** and **address of the building**

"SCREENING" of the physical climate risks listed in Annex A ("Classification of climate-related hazards").
For each physical climate risks mentioned in this Appendix A (currently #28 climate hazards) a statement must be provided.
(Initial question: "can the property/building in principle be affected by this climate risk at the specific location/address?"

Appendix A - "Classification of climate-related hazards"
The list of climate hazards in this table is not exhaustive and is only an indicative list*
of the most prevalent hazards identified in the climate risk and vulnerability analysis
AT LEAST TO CONSIDER - #28 CLIMATE HAZARDS

EU TAXONOMY		
Annex A - climate-related hazards #28		
temperature	wind	water
Temperaturveränderung (Luft, Süßwasser, Meerwasser)	Veränderung Windverhältnisse	Veränderung der Niederschlagsmuster und -arten (Regen, Hagel, Schnee/Eis)

Climate Positive Europe Alliance

Standardized Report on Verification

ESG-VERIFIKATION ZUR EU-TAXONOMIE

Unabhängige Prüfung der DGNB

PROJEKTINFORMATION:

Objektname: Objektname Name
Name kann auch zweizeilig
Projektnummer: 0815-1234
Adresse: Musterstraße 99,
66996 Musterstadt

Taxonomie Kategorie: Erwerb und Eigentum
Taxonomie Umweltziel: Klimaschutz
Antragsteller: Frau Musterfrau
und Herr Mustermann

TAXONOMIEPRÜFERGEBNIS:

Das Projekt erfüllt die Anforderungen der EU Taxonomie (Version XX).

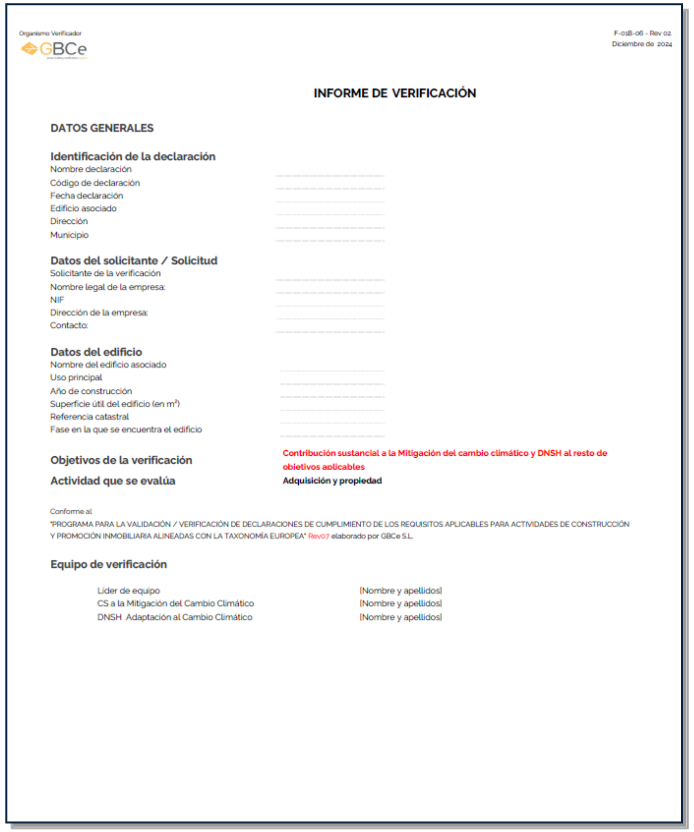
AUSSTELLER

Anschrift: DGNB GmbH, Tübinger Straße 43, 70178 Stuttgart
Austellungsdatum: XX.XX.XX

Johannes Kreißig, DGNB Geschäftsführer

EU-Taxonomie-konform
verifiziert durch DGNB

Projektnummer:xx xx-xxxx



Organismo Verificador
GBCe

F-01B-06 - Rev 02
Diciembre de 2024

INFORME DE VERIFICACIÓN

DATOS GENERALES

Identificación de la declaración
Nombre declaración
Código de declaración
Fecha declaración
Edificio asociado
Dirección
Municipio

Datos del solicitante / Solicitud
Solicitante de la verificación
Nombre legal de la empresa:
NIF
Dirección de la empresa:
Contacto:

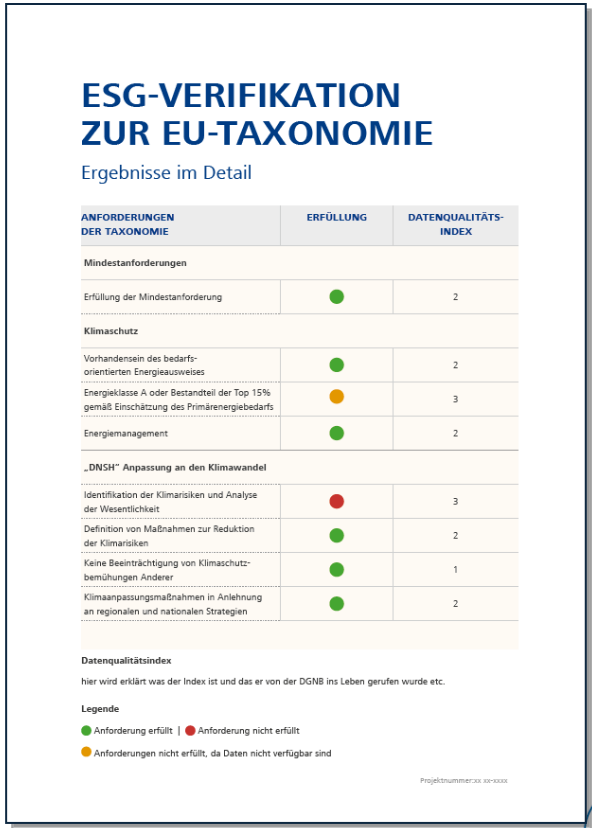
Datos del edificio
Nombre del edificio asociado
Uso principal
Año de construcción
Superficie útil del edificio (en m^2)
Referencia catastral
Fase en la que se encuentra el edificio

Objetivos de la verificación — **Contribución sustancial a la Mitigación del cambio climático y DNSH al resto de objetivos aplicables**
Actividad que se evalúa — **Adquisición y propiedad**

Conforme al
"PROGRAMA PARA LA VALIDACIÓN / VERIFICACIÓN DE DECLARACIONES DE CUMPLIMIENTO DE LOS REQUISITOS APLICABLES PARA ACTIVIDADES DE CONSTRUCCIÓN Y PROMOCIÓN INMOBILIARIA ALINEADAS CON LA TAXONOMÍA EUROPEA" Rev07 elaborado por GBCe S.L.

Equipo de verificación

Líder de equipo	[Nombre y apellidos]
CS a la Mitigación del Cambio Climático	[Nombre y apellidos]
DNSH Adaptación al Cambio Climático	[Nombre y apellidos]



ESG-VERIFIKATION ZUR EU-TAXONOMIE

Ergebnisse im Detail

ANFORDERUNGEN DER TAXONOMIE	ERFÜLLUNG	DATENQUALITÄTS-INDEX
Mindestanforderungen		
Erfüllung der Mindestanforderung	●	2
Klimaschutz		
Vorhandensein des bedarfs-orientierten Energieausweises	●	2
Energieklasse A oder Bestandteil der Top 15% gemäß Einschätzung des Primärenergiebedarfs	●	3
Energiemanagement	●	2
„DNSH" Anpassung an den Klimawandel		
Identifikation der Klimarisiken und Analyse der Wesentlichkeit	●	3
Definition von Maßnahmen zur Reduktion der Klimarisiken	●	2
Keine Beeinträchtigung von Klimaschutz-bemühungen Anderer	●	1
Klimaanpassungsmaßnahmen in Anlehnung an regionalen und nationalen Strategien	●	2

Datenqualitätsindex

hier wird erklärt was der Index ist und das er von der DGNB ins Leben gerufen wurde etc.

Legende

● Anforderung erfüllt | ● Anforderung nicht erfüllt
● Anforderungen nicht erfüllt, da Daten nicht verfügbar sind

Projektnummer:xx xx-xxxx

Climate Positive Europe Alliance

ENGAGE x CPEA Collaboration

Engage Templates are submitted by Deal Owner

Processing in the ENGAGE Portal

ENGAGE Taxonomy Alignment report

User chooses additional CPEA standard verification and GBCs perform conformity assessment

GBCs report and label provided to verified projects

Your Contact at CPEA

Let us know if you are interested in collaborating with us!

Seema Issar
Head of Sustainable Finance
and Taxonomy,
CPEA AISBL
s.issar@cpea.eu

How to become an ENGAGE Portal user

Marco Angheben

European DataWarehouse

Free ENGAGE trial period until 31 December 2026

Request ENGAGE Templates

- Version 1.2 of the ENGAGE Templates available now through Request for Access to the ENGAGE Templates
- **88 institutions** have requested access to the ENGAGE Templates

ENGAGE Demonstration

- The ENGAGE Team is available for clarifications

Submission to ENGAGE Portal

- Signature of a standard legal arrangement for the safe processing of the data
- Possibility to submit the ENGAGE sample files various times enriching the information

Output Reports

- For each sample file submission two reports are generated: 1) a data quality report; 2) an EU Taxonomy alignment report.

Co-funded by the
European Union

Upcoming events

- In person event in **Frankfurt am Main**
- Focused on the German sustainable finance and real estate sectors
- **Tuesday, 28 July 2026**
- **15:00 – 18:00**
- Networking reception drinks


ENGAGE for ESG

Co-funded by the European Union

ENGAGE FOR ESG:
The new EU Taxonomy criteria and what this means for German real estate

AGENDA

14:30 - 15:00 **Walk-in and registration**
15:00 - 15:10 **Opening and Introduction**

15:10 - 15:30 **Keynote speech, by Frank Lee,** European Investment Bank
15:30 - 15:50 **Deep dive: the new EU Taxonomy criteria, by Vincent Mahieu,** Hypoport
15:50 - 16:10 **Challenges for EU Taxonomy implementation in Germany, by Sabrina Miehs,** Verband deutscher Pfandbriefbanken (VdP)

16:10 - 16:30 **Coffee Break**

16:30 - 17:15 **Simplification of EU Taxonomy reporting - ENGAGE use cases:**
- **Spain, by Pilar Campuzano** (Unión de Créditos Inmobiliarios) **& Seema Issar** (Climate Positive EuropE Alliance)
- **Netherlands, by Martijn Breed** (Nationale-Nederlanden)
- **France, by Sébastien Descours** (FIDEO Gestion) **& Simon Hulin** (Marius Rénov)

17:15 - 18:00 **Sustainability disclosures for the German residential real estate sector, by Charly Gräfe,** Bundesverband deutscher Banken (BdB) **& Heike Schmitz,** Praxisbeirat Sustainable Finance, Herbert Smith Freehills

18:00 **Closing remarks and drinks**

Co-funded by the European Union

ENGAGE for ESG

Website: engage4esg.eurodw.eu/

Newsletter subscription

Follow us on LinkedIn

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