JANUARY



ASSESSING AMBITION LEVELS IN NEW BUILDING STANDARDS ACROSS THE EU



Our first study of 2022, 'Ready for carbon neutral by 2050?' showed decarbonisation of new buildings in the EU is happening too slowly and inconsistently.

Key message:

Failure to decarbonise new construction will hinder achievement of 2030 and 2050 climate targets.

Ambition levels and definition of NZEB standards should be rigorously reviewed in the EPBD revision, and EU Member States heavy dependence on fossil fuels for heating purposes must be addressed.



ROADMAP TO CLIMATE-PROOF BUILDINGS AND CONSTRUCTION

HOW TO EMBED WHOLE-LIFE CARBON
IN THE EPBD



Key message:

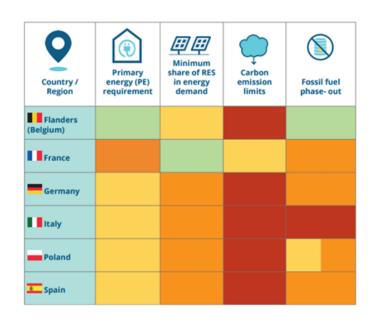
At minimum, the EPBD should set a strong vision for WLC of buildings and construction that ensures a step-wise approach and timely implementation plan.

Waiting until the next EPBD revision in 2027 to integrate a plan for whole-life carbon will be too late.



READY FOR CARBON NEUTRAL BY 2050? ASSESSING AMBITION LEVELS IN NEW BUILDING STANDARDS ACROSS THE EU

2022 started off with a look at two complementary topics of massive strategic importance for the EU decarbonisation agenda: new building standards and whole-life carbon.





standards should be rigorously reviewed in Delaying and watering down home renovations is short-sighted and unfair to citizens

A WHOLE-LIFE CARBON ROADMAP

Decarbonisation of new construction will also require measuring the whole-life carbon emissions of a building.

This policy roadmap argues that the EPBD recast should ensure a comprehensive vision of a carbon neutral building and construction sector, and set the requirements and clear triggers to reduce whole-life carbon emissions of the building stock in order to align the provisions of the EPBD with climate neutrality goals.



EPBD RECAST: FIRST ASSESSMENT

Responding to the Commission's EPBD recast proposal in December 2021, this high-level analysis finds that the file is not up to task to fulfill EU climate and decarbonisation goals.

Key message:

While many provisions are either introduced or open for modification, they will not deliver on the Directive's objectives if the ambition is not set at the right level, and if measures are not made more stringent and coherent.



FEBRUARY

ADVANCING THE TRANSATLANTIC ECONOMIC RECOVERY WITH BUILDING RENOVATION & CLEAN ENERGY SOLUTIONS

dialogue on buildings between the EU and United States, which launched in spring 2021, shortly after US President Biden took office. As signatories of the Paris Agreement, the US has committed to society-wide decarbonization by 2050, and this was affirmed in February 2022 by the 9th US-EU Energy Council in Washington, where the US and EU pledged to base economic recovery on green and sustainable solutions.



POLITICO

Now is the time for transatlantic leadership on decarbonizing buildings





Buildings are a key climate solution: How the U.S. and Europe are cooperating to make progress

Bringing together over 700 stakeholders and decision-makers from the US and the EU, the dialogues demonstrated high interest to share best practice and intensify the trans-Atlantic exchange on energy and buildings policy.

MARCH

UKRAINE CRISIS: STRATEGIC ACTIONS TO REDUCE EU DEPENDENCY ON RUSSIAN FOSSIL FUELS

While the international stage became increasingly preoccupied in getting off Russian fossil fuels, Russia's senseless invasion of Ukraine began.

The best reaction we could make was to highlight that the EU's strategy to move away from Russian fossil fuels (which is urgent) should reduce dependency on foreign energy imports overall and that we must focus just as much on reducing demand as changing tactics vis-a-vis supply.



Key message:

Actions taken now must avoid quick fixes which might pose similar future risks. Short and medium-term actions must nonetheless be strategic over the long term.

APRIL



Key message:

It should be the goal of good policy design to ensure that positive impacts prevail, and ultimately it is the responsibility of policymakers to achieve this objective.

QUESTIONING THE NARRATIVE: WHAT ARE THE 'SOCIAL JUSTICE IMPLICATIONS OF BUILDINGS DECARBONISATION POLICIES?

It is easy to lose sight of public perception and wider acceptance (or lack thereof) of decarbonisation policies in the Brussels bubble.

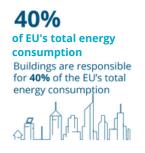
With this in mind, we <u>analysed the</u> <u>implications of EU energy policies</u> on low-to-middle-income, vulnerable and energy-poor households and identified four key areas that policies need to comprehensively address to flip the narrative on building decarbonisation towards a people-centric vision.

MAY

REPOWEREU ENERGY SAVING PLAN: TIME TO SWITCH TO ACTION

On 8 March the European Commission published its REPowerEU Communication for joint European action for more affordable, secure and sustainable energy, outlining a path for the EU to decrease its reliance on Russian fossil fuels.

This analysis responds by listing a number of short and longer term measures that can deliver energy savings in the next 18 months while putting the EU on a path compatible with its climate targets.

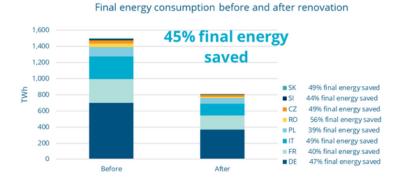


Heating, cooling, and domestic hot water represent around 80% of the energy consumed in buildings, with fossil-fuels contributing more than 34 of this.6



PUTTING A STOP TO ENERGY WASTE: HOW BUILDING INSULATION CAN REDUCE FOSSIL FUEL IMPORTS AND BOOST EU ENERGY SECURITY

Following the theme of energy security and solidarity with Ukraine, this study highlights that improving insulation in EU buildings is a potent solution to both cut our energy demand and dependency on fossil fuels while significantly reducing energy waste.

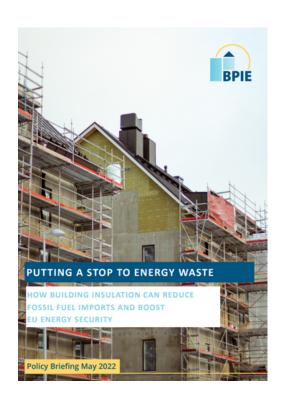






Key message:

The best way to decrease the EU's energy dependency is to reduce energy consumption, especially in buildings. The sector is responsible for about 40% of the EU's total energy consumption.



Key message:

Investing in building renovation offers huge savings & security potential & should be an EU priority: it can reduce the use of fossil fuels for heating in buildings, reaching 44% in gas savings, save 45% of final energy demand.

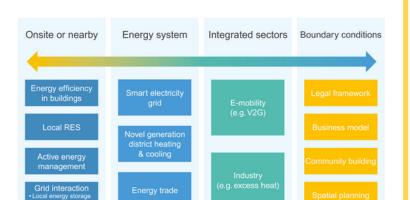
JUNE

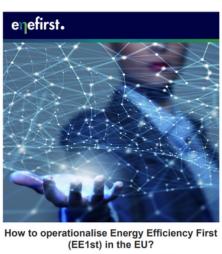
HOW TO IMPLEMENT THE ENERGY EFFICIENCY FIRST PRINCIPLE & BOOST EUROPE'S ENERGY SECURITY?

Drawing on lessons learned from Germany, Spain and Hungary, BPIE published a set of recommendations for Member States to support the implementation of the energy efficiency first principle in their policies

Key message:

Most current policies are not designed around the EE1st principle, but can be adapted to reflect it, and new policies can be designed to integrate it.







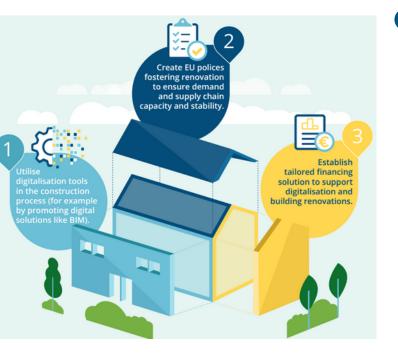
POSITIVE ENERGY NEIGHBOURHOODS: DRIVERS OF TRANSFORMATIONAL CHANGE

With 75% of Europeans living in urban areas, this analysis argues there is significant opportunity and need to hone innovative solutions in neighbourhoods and homes, beyond the individual building.

Key message: Successful decarbonisation of the EU building stock calls for an integrated, participatory and

neighbourhood-based approach.

JULY



HOW TO SCALE UP INDUSTRIAL RENOVATION?

Action and innovation are needed to achieve the EU climate goal of society-wide decarbonisation by 2050 and industrially prefabricated renovation solutions are a strategic area that should be leveraged by policymakers.

Key message:

Beyond delivering carbon emission savings, industrial prefabrication has the potential to drive innovation in the construction sector.

HOW TO INTEGRATE SEISMIC SAFETY WITH ENERGY RENOVATIONS IN THE EPBD?

About 50% of European territory is earthquake-prone. Seismic safety has traditionally been considered separately from energy performance. Maintaining this separation can lead to wasted investments and may even multiply the number of renovations and interventions over time.

Amidst this urgency to rapidly upscale deep energy renovations, the European building stock faces another significant challenge.



Key message:

The EPBD can be used to maximise the benefits of renovation by allowing Member States to adopt - where suitable - an integrated approach to decarbonise and protect citizens.

BAUSTEINE ENER LEBENSZYKLUSPERSPEKTIVE FÜR MEHR KLIMASCHUTZ UND RESSOURCENSCHONUNG IM GEBÄUDESEKTOR DER DEUTSCHE RECHTSRAHMEN UND GUT BEISPIELE AUS DER PRAXIS

The German government has set itself the goal of becoming climate neutral by 2045. Germany is the largest energy consumer in Europe.

This report (in German only) provides an overview of relevant strategies, laws, initiatives and examples of good practice for a life cycle perspective on the building sector in Germany

Key message:

It is only through a life cycle perspective on the building sector that emissions and the ecological footprint can be reduced holistically and in the long term.



BAUSTEINE EINER
LEBENSZYKLUSPERSPEKTIVE
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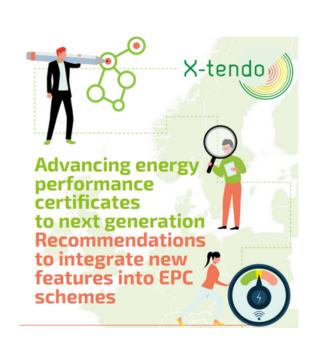
AUGUST

FUTURE-PROOFING ENERGY PERFORMANCE CERTIFICATES

This X-tendo briefing provides recommendations on how to take EPC schemes to the next level and is targeted at policymakers at EU and Member State level, public authorities and institutions responsible for their design, implementation and management.

Key message:

The EPC is the only mandatory policy instrument that is embedded in Member States' policies and widely known by end-users. Better coverage of the building stock with EPCs is a precondition for their improvement, but at the same time Member States must ensure that they are affordable and accessible..



SEPTEMBER



Key message:

Member States and EU Parliament should aim at transformational EPBD revision, EU Buildings Climate Tracker shows.



IMPACT ASSESSMENT OF THE MEPS UNDER DISCUSSION IN THE CONTEXT OF THE EPBD REVISION

Minimum Energy Performance Standards (MEPS) are a new tool introduced by the Commission in the EPBD with the potential to massively reduce GHG emissions and energy poverty.

However, many member states might be undermining the tool's potential by seeking to apply weakened MEPS compared to the Commission's proposal.

To inform this discussion, Climact and BPIE modelled the impacts of MEPS schemes on the European building stock, using three main scenarios: the Commission's EPBD revision proposal, the REPower EU MEPS proposal, and a third more ambitious option.

REDUCING CARBON EMISSIONS OVER THE LIFE OF A BUILDING: OPPORTUNITIES IN THE 2022 EPBD RECAST

Less than a year after publishing our WLC policy roadmap, little progress was yet observed vis-avis ambition of whole-life carbon provisions in the EPBD negotiations.

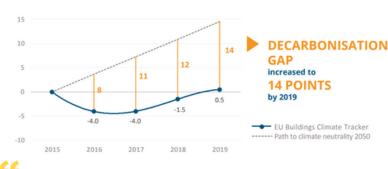
Most estimates suggest that embodied carbon accounts for about 10% of total yearly greenhouse gas emissions worldwide.

The relative importance is expected to grow as more buildings are constructed and renovated to higher efficiency standards and could account for over 50% of all emissions from the buildings sector in the near future.

THE EU BUILDINGS CLIMATE TRACKER - FIRST EDITION

In September, BPIE officially launched its new EU Building Climate Tracker. Designed as a high-level index based on 6 indicators, the Tracker is a response to the challenges of collecting and using data to monitor and assess decarbonisation in the EU building stock and will monitor progress annually.

The results of the first edition of the Tracker show that the buildings sector is not even close to being on track to achieve climate neutrality in 2050, the decarbonisation gap between where the EU should be and actually is, increased to 14 points by 2019.



The EU must immediately, rapidly, and strongly accelerate the rate of building decarbonisation.

Progress must be drastically increased if the EU is to reach climate neutrality in 2050 in the building stock.



Key message:

Both the Commission proposal and REPowerEU are insufficient to bring the EU in line with Fit for 55 targets. Weakening the Commission proposal would completely negate the significant benefits MEPS could bring to Europe's struggling families.



Delaying and watering down home renovations is short-sighted and unfair to citizens



Key message:

Deploying whole-life carbon (WLC) measures in the EU Energy Performance of Buildings
Directive (EPBD) recast will be a win-win for energy performance and climate action at the building and industry level. A stepwise approach and a clear timeline that go beyond

2030 needs to be set out in the EPBD recast.

OCTOBER



Key message:

Minimum Energy Performance Standards have the potential to decisively transform the renovation market if designed correctly. By rigorously applying 5 principles to MEPS design, it is possible for the policy tool to ensure maximum effectiveness and fairness to citizens.

#RENOVATE2REPOWEREU #TIMETOACT

REDay2022 took place amidst intensifying EPBD negotiations, with co-rapporteurs in the Parliament actively engaged on agreeing a Parliament position.

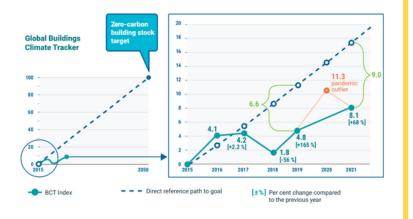


NOVEMBER

IS THE GLOBAL BUILDINGS SECTOR ON TRACK TOWARDS THE PARIS AGREEMENT GOALS?

Despite a substantial increase in investment and success at a global level lowering the energy intensity of buildings, the sector's total energy consumption and CO2 emissions increased in 2021 above pre-pandemic levels.

The relative importance is expected to grow as more buildings are constructed and renovated to higher efficiency standards and could account for over 50% of all emissions from the buildings sector in the near future.



environment programme 2022 GLOBAL STATUS REPORT FOR BUILDINGS AND CONSTRUCTION Towards a zero-emissions, efficient and resilient buildings and construction sector



Key messages:

Emissions from buildings and construction hit a new high, leaving the sector off track to decarbonize by 2050.

Policies and action remains slow. For example, only 26 per cent of countries have mandatory energy codes for the entire building sector.

Embodied carbon in buildings need immediate action to avoid undermining the carbon reductions achieved from energy efficiency.

DECEMBER



Key message:

Setting the regulatory framework for whole life-carbon is getting urgent, as is removing administrative and legal hurdles and set clear goals.

EXPERTS CONFIRM NEED TO SET THE REGULATORY FRAMEWORK TO REDUCE WHOLE-LIFE CARBON EMISSIONS

The reduction of life cycle emissions in the building sector will play an increasingly important role in the future, and there is increasing urgency to set regulatory framework to reduce whole-life carbon emissions.

BPIE brought together a panel of experts in Berlin, who highlighted urgency is to set wholelife carbon regulatory framework, remove administrative and legal hurdles and set clear goals.

