

BUILDINGLIFE PROGRAMME FOR CARBON NEUTRALITY IN THE BUILT ENVIRONMENT

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PREFACE

With IPCC's Sixth Assessment Report, the need for immediate climate action has become more apparent than ever. All we have is this decade to turn the direction of the world. The real estate and construction sector produces approximately one third of emissions in Finland, which means that the sector has a decisive role in combating climate change. It is absolutely necessary that each organization and individual recognizes their opportunities to influence the situation and takes action to reduce emissions. You do not have to do this alone or invent solutions by yourself. Everything you need is already available. Take action.

#BuildingLife

#BuildingLife is a joint project by ten European Green Building Councils, which highlights the built environment as a decisive part of the fight against climate change. With the project, companies in the built environment sector have considered the emissions produced by their activities in depth and shared information about solutions that could be used to reduce emissions in a sustainable manner. Each country produces an action program presenting the direction and processes that can be used by companies to reduce both the emissions from their own activities and those within their value chains on a larger scale. In Finland, the project includes dozens of companies that have a genuine need and desire to make the world a safer place to live in. During the project, we have heard innovative and well-informed views on the emission reduction potential, ranging from manufacturing plants in the building products industry to housing solutions and the infrastructure. Companies that support the programme commit themselves to the objectives of the plan and the implementation of the proposed measures such that the emissions produced by the real estate and construction sector in Finland reach carbon neutrality by the year 2035. A review of the current situation of the real estate and construction sector was published as part of the project, which included the best concrete examples of how environmental and climate work has already been put into action. The review is intended to motivate companies that have not begun their climate activities to think in concrete terms and realize that getting started is not actually as challenging as we might have thought. The publication looks further toward more ambitious targets. Toward concrete action.



SETTING THE DIRECTION, HELPING ALONG THE WAY.

Emissions are being reduced at an astonishing rate in the real estate and construction sector. New low-carbon solutions and operations models are being developed everywhere and new innovations are rapidly adopted by the masses. The real estate and construction sector is claiming a key role in the fight against climate change, and no one can afford to remain on the sidelines as the sector moves forward.

Remaining involved in the development of the sector and avoiding missteps will require an increasingly systematic approach and comprehensive utilization of existing information. Luckily, we do not have to invent all the tools ourselves.

At different stages, but heading toward the same goal

Each operator in the real estate and construction sector is at a different stage of their race toward carbon neutrality. Pioneers in the field are already thinking of ways to abandon compensation and to engage the entire value chain in the work toward carbon neutrality. At the same time however, some operators are losing resources due to tightening obligations and the evolving market situation, and thus the development of their own carbon neutrality activities still remains at the early stage. The development of the entire sector and the possibility to bring about actual change require that everyone is able to participate in the work and can find solutions for reducing emissions that work for them. The same tools will not work for everyone. We need a clear roadmap enabling sustained progress, which operators in the sector can follow together, supporting each other along the way.

Green Building Council Finland and #BuildingLife offer operators in the sector the opportunity to engage and influence, regardless of their starting point. We welcome everyone to expand their skill set and share their solutions.

Commit to carbon neutrality by 2035

We are inviting all organizations operating in the real estate and construction sector to support the #BuildingLife Programme for Carbon Neutrality in the Built Environment. Supporters of the programme commit to working toward a carbon neutral built environment by the year 2035 in accordance with the common goals of the real estate and construction sector. Supporters are committed to drawing up an action plan that they can use to develop their activities toward carbon neutrality.

Tell us about your work for carbon neutrality

We are inviting everyone to share their action plans with us, which we will publish under the #BuildingLife Programme for Carbon Neutrality in the Built Environment. The actual organization-specific action plans and road maps will provide examples for the application of the broader programme and encourage the entire sector to come up with their plans.

Components of a high-quality action plan for carbon neutrality:

- All emissions in Scopes 1, 2, and 3 as defined by the GHG protocol.
- Clear emission reduction goals and intermediate targets for different business units / functions.
- Targets and measures for transition toward a circular economy.
- Targets and measures for phasing-out fossil fuels.
- Clear-cut, measurable, and achievable targets for the next five years.
- Subsequent measures can be specified further in the future.



Pick up the pace

We are inviting private operators to set carbon neutral construction projects and the use of carbon neutral energy by the year 2030 as their objective. Join the international Net Zero Carbon Buildings Commitment. We are encouraging public operators to sign the LIFE Level(s) pledge and to begin using the following indicators included in the Level(s) framework as procurement criteria: Life-Cycle Assessment (LCA), Life-Cycle Costing (LCC), and Indoor Air Quality (IAQ).

Where to next?

1. Specify objectives that are in line with your activities and values.

- Sign up as a supporter of the #BuildingLife Programme for Carbon Neutrality in the Built Environment.
- Supporters of the programme commit to working toward a carbon neutral built environment by the year 2035 in accordance with the common goals of the real estate and construction sector. Supporters are committed to drawing up an action plan that they can use to develop their activities toward carbon neutrality.

2. Choose the pledges and frameworks you wish to commit to.

Private operators

- Sign the Net Zero Carbon Buildings Commitment carbon neutral buildings by 2030.
- Make a commitment to a general accepted emissions reporting system, such as Science Based Targets.
- Sign the Sustainable Demolition Green Deal commitment to promote material efficiency in demolition work.

Public operators

- Sign the LIFE Level(s) pledge, use the Level(s) framework as procurement criteria.
- Sign the Emission-Free Worksites Sustainable Procurement Green Deal for fossil-fuel-free worksites by the end of 2025.

3. Draw up your own action plan for carbon neutrality.

You can use the #BuildingLife Programme to help you identify the right measures.

- 4. Share examples of your work and encourage the entire sector to make genuine progress toward carbon neutrality.
- 5. Track and measure the emission trends of your activities and specify your objectives and action plan further where necessary.



Structure of the programme

THE FIRST SECTION PRESENT A TARGET FOR THE ENTIRE SECTOR: CARBON NEUTRAL BUILT ENVIRONMENT BY 2035. This section also describes the sub-objectives for concerning the emissions related to energy consumption, building materials, and worksite activities. As has often been said: "If it cannot be measured, it cannot be managed." The same goes for greenhouse gas emissions. Common goals motivate the entire sector to work together. In the context of climate work, even competitors can find themselves on the same side.

THE SECOND SECTION PRESENTS THE OPERATOR-SPECIFIC TABLES OF MEASURES. As each company engages in different activities, the emission reduction measures must also be different. In this publication, we present measures for eight different operator groups in the real estate and construction sector:

- Building products industry
- Construction companies
- Developers
- Infrastructure project clients
- Planners and other specialists
- Real estate investors
- Municipalities, cities, and other public operators
- Organizations

The tables of measures offer guidelines for the development of the operators' processes, but they do not provide strict instructions on how to adjust their business activities. This is a decision only the companies themselves can do. The tables of measures present years for the commencement and completion of each activity. However, the operators can adapt the provided timeframes in their own action plans to fit their specific needs and specify more ambitious targets as well. In the interest of the functionality of the business environment, it is essential to ensure that low-carbon services are available in the subcontractor and supplier chains and that the scheduling of the measures allows for this.



THE TIME HAS PASSED FOR GREENWASHING AND EMPTY WORDS

Better progress is required from the real estate and construction sector. Clients, investors, and end users demand that the built environment conforms to the principles of sustainable development, and the ever-tightening legislation in Finland and the European Union is pointing in the same direction. Our operating environment is ready for change. This change is not a threat but instead an opportunity for good, growing, and increasingly international business activities. A carbon neutral built environment is a complex and challenging objective that constantly requires new research data. But it is also the only direction we have, as this is the decisive decade. The objective must be divided into smaller components that can be implemented by each operator in the sector. These components can be found in the Programme for Carbon Neutrality in the Built Environment. The programme helps real estate and construction sector operators of all sizes to identify their own roles in bringing about a change in the sector. The programme provides guidelines for the development of the operators' activities, but the desire to change must be found within the organizations. They have to take the first steps and commit to a target. The first thing each company should do is to find out the sources of emissions for your activities.

We can do this

The real estate and construction sector has shown that it is capable of major change. Occupational safety and improved energy-efficiency became routine elements of construction projects in the 2000s. Now, we need an even more radical and faster change in terms of both attitudes and actions to achieve our objective of a carbon neutral built environment by the year 2035. All of us owners, decision-makers, specialists, and employees in the real estate and construction sector can make decisions within our own work that bring us closer to lower emissions without compromising on quality. No company can change the industry alone. A carbon neutral built environment means increased and improved cooperation between different operators. We must ask a lot from ourselves but also from our partners.

The time has passed for greenwashing and empty words. Now, it is time for practical action toward a carbon neutral built environment.

As signatories, we have already taken action and we want you to join our trailblazing team. The future is in our hands.

18 September 2021 #BuildingLife Ambassadors

Jan Herranen, Maajohtaja, Rototec Oy Kaisa-Reeta Koskinen, Projektijohtaja, Hiilineutraali Helsinki Panu Pasanen, Toimitusjohtaja, One Click LCA Ltd Jyrki Keinänen, Toimitusjohtaja, A-Insinöörit Oy Olli Nikula, Toimitusjohtaja, Saint-Gobain Finland Oy Juha Kostiainen, Johtaja, Kaupunkikehitys, YIT Oyj Tuomas Särkilahti, Toimitusjohtaja, Skanska Oy Ilkka Tomperi, Johtaja, Kiinteistöt, YIT Oyj Ville Reinikainen, Liiketoiminnan kehitysjohtaja, Granlund Oy Saara Vauramo, Ohjelmajohtaja, Lahti - Euroopan ympäristöpääkaupunki 2021 Karla Lindahl, Toimitusjohtaja, KONE Oy Suomi ja Baltia Minna Toiviainen, Liiketoimintajohtaja, Realia Management Oy Laura Inha, Kehityspäällikkö, Kestävä Tampere 2030 Juha Rämö, Teknologiajohtaja, Consolis Parma Riku Patokoski, Toimitusjohtaja, Bonava Suomi Oy Topi Paananen, Toimitusjohtaja, Peikko Group Oy Niina Nurminen, Rakennuttajapäällikkö, Keskinäinen Eläkevakuutusyhtiö Ilmarinen Pasi Suutari, Kiinteistöjohtaja, SOK

SUPPORTERS

As supporters of the programme of the **#BuildingLife** project, we commit ourselves to working toward a carbon neutral built environment by the year 2035 in accordance with the common goals of the real estate and construction sector.

We also commit ourselves to drawing up our own action plan, which we will use to develop our business activities toward carbon neutrality.

Our group of supporters continues to grow - you can see all supporters and their roadmaps on our site figbc.fi/buildinglife..





















DURAT







Fira







RAMIRENT















CHANGE REQUIRED IN THE SECTOR

For carbon neutrality to become a reality, the real estate and construction sector requires deep, systemic change. Business models and approaches must be thoroughly transformed. To allow companies to adjust their activities, we need a favorable operating environment. In this chart, we will present the steps toward carbon neutrality divided into subject areas. Key operators for bringing about change are also presented for each subject area. We can only change the future together.

	-2023	-2025	-2030	-2035
ol for organizations o all operators.)	Emission control must start with an assessment of the emissions of your value chain. Organizations assess the emissions of their value chain in accordance with the GHG protocol including all three Scopes.	It is essential for the credibility of the objectives to ensure that emissions are reported through a process overseen by a third party. Organizations commit to reporting their emissions on an annual basis.	The realization of emission reduction targets is monitored annually, and planned measures are specified further where necessary.	Toward the midpoint of the 2030s, organizations have eliminated the majority of their emissions and identified areas where the reduction of emissions is difficult. Organizations utilize emission compensation systems to
Emission contr (Applies t	Emission reduction targets and measures are specific to each organization. Each organization must prepare their own concrete steps for reducing emissions.	Organization-specific benchmarks are determined for construction projects, which can be used to set project-specific objectives.	Organizations require their stakeholder groups to commit to the same objectives, as the emission reduction targets for a value chain cannot be achieved alone.	achieve carbon neutrality. The vision for the future includes achieving carbon positivity. How could business activities be developed toward an increasingly ecological direction?
S	Competence must be increased extensively throughout the sector. Occupational safety programs can be used as an example. Organizations draw up competence requirements for different roles and prepare	For the projects, it is important to ensure that key stakeholders are able to interpret carbon footprint calculations and environmental product declarations.	Organizations engage their stakeholder groups to participate in the emission reduction work. Training opportunities are also offered to the subcontracting chain and suppliers.	Organizations determine whether they need compensation to achieve carbon neutrality and communicate openly on the subject.
ning and communicatior pplies to all operators.)	the activities are mobilized three business unit, and the business unit, and the activities are mobilized through the identified personnel in the business units.	in performance bonus systems and development targets. Development of emission reduction solutions is rewarded by organizations. Challenges are also discussed. Other operators in the sector are also included in finding solutions to challenges.	increased. Larger organizations introduce best practices from other countries.	products is communicated to the customers in the context of letting or real estate transactions.
Trair (A	Organizations communicate on their emission reduction targets and measures. Operators exchange information freely and participate in joint development projects, such as the #BuildingLife project.			
aan planning nicipalities)	Cities and municipalities can keep emissions from construction in check by directing construction toward areas with existing infra- structure and suitable ground conditions for construction.	Cities and municipalities aim to minimize construction on undeveloped land and increase green infrastructure. In design competitions, cities require the utilization of circular economy and adapting to climate	In zoning, the requirements of energy transition are taken into account by ensuring sufficient space for the storage of energy. Cities only grow larger through stacking and changes in land use	Simulation is introduced to support zoning. The best typology is determined for each plot, taking into account the existing infrastructure, green areas, and ground conditions.
Zoning and url (Cities and mu	In zoning, particularly low- carbon solutions are required for plots that are in higher demand. Particularly low- carbon solutions are required in the conveyance of plots and design competitions.	r unanye.	have been brought to equilibrium.	

	-2023	-2025	-2030	-2035
Emission control for projects lopers, construction companies, and consultants)	Carbon footprint management is made part of all housing construction projects. Benchmarks are specified for projects to allow for the assessment of emission reduction measures. Carbon footprint assessment is becoming more common in the sector and more specialists are required each year. The assessment of the carbon footprint of structures begins is infortune assisted and and and and and and and and and an	Companies set their own limit values for different project types and the life-cycle emissions of housing construction projects have been reduced by 15 percent. As legislation enters into force, carbon footprint assessments become increasingly common, and the number of specialists continues to grow. First infrastructure projects are being assessed using the common method in the project	 The life-cycle carbon footprint of housing construction projects has been significantly reduced. Pioneers are planning the first carbon neutral projects. Emission control of infrastructure projects has become an established practice in both the project planning stage and further planning. Emissions of infrastructure projects have begun to fall. 	First carbon neutral housing construction projects are being built. The life-cycle emissions of housing construction projects have been reduced by 70 percent. Emissions of infrastructure projects are reduced strategically. Green infrastructure and other forms of carbon sequestration are
Deve	Manufacturing plants draw up	planning stage. Emission reduction method are outlined, and benchmarks set for project types. The use of fossil energy at	Supply of renewable energy for	No fossil energy is used
als and building products ppliers of materials)	their own emission reduction plans that take into account energy-efficiency, environmental material flows, and production processes. Environmental Product Declarations (EPD) are prepared for high emission products in particular.	 manufacturing plants is reduced. EPDs are prepared for 40 percent of the product portfolio. Make sure that 20 percent of products can be recycled. Prepare recycling instructions for the products. 	 manufacturing plants is ensured through Power Purchase Agreements (PPA). EPDs are prepared for 70 percent of the product portfolio. Make sure that 50 percent of products can be recycled. Prepare recycling instructions for the products. 	 EPDs are prepared for 100 percent of the product portfolio. Make sure that 75 percent of products can be recycled. Prepare recycling instructions for the products.
ss Materia (Su	Recycling instructions are prepared for products that can be recycled. Circular economy is introduced as a principle of product development. Operators commit to the Green Deal for Emission-Free	Worksite generators use renewable fuels wherever	Make sure that the charging infrastructure of worksites also	Use only renewable delivered energy in
Emission control for worksitt (Construction companies, developers)	 Worksites. The calculation of the worksite carbon footprint is assessed to ensure that it also includes any demolition and excavation work carried out at the site. Only renewable electricity is used at worksites and possible sources of renewable thermal energy are investigated. 	Modernization of equipment and the development of existing equipment is discussed with equipment rental partners.	Subcontractors. Generators powered by fossil fuels are phased out at worksites.	Support the modernization of equipment by your partners and the product development of equipment manufacturers by proposing pilot projects and partnership models.
Energy efficiency Real estate investors, developers)	Emissions from the energy consumption of existing property stock are well known. Energy audits are carried out and plans prepared at properties to improve efficiency. Organizations set objectives for the energy-efficiency and emissions of their property stock.	Energy-efficiency is improved systematically in all property types. Local production of renewable energy for properties is investigated. Electricity purchase agreements largely pertain to fossil-free sources. Property owners negotiate advantageous agreements for the tenants as well. The option to purchase renewable district heat becomes available in the first municipalities.	Energy-efficiency has reached its highest level. Renewable energy is widely produced at properties. The largest sites also include options for energy storage. The quantity of purchased renewable electricity is increased through PPAs. Fossil-free district heat can be purchased in most municipalities.	 The properties use fossil-free and mainly renewable energy. A significant amount of energy is produced within the property stock, which is recycled effectively. District heat is fossil-free throughout the country.

Emission control for projects

Emission control for worksites

Energy efficiency

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GREEN BUILDING COUNCIL FINLAND

CARBON NEUTRAL BUILT ENVIRONMENT BY 2035

The objective of this programme is to determine steps for each operator in the sector, which would combine to ensure that the real estate and construction sector in Finland becomes carbon neutral by the year 2035.

In expert groups open to all operators, we have come to the following conclusion: the amount of energy required and the related emissions must be reduced further to almost nothing. But this alone will not suffice. Determined action to reduce the emissions related to building materials and worksites by at least one half is also needed.

The real estate and construction sector has a decisive role in fighting climate change

With the recent report from IPCC, the need for immediate climate action has become more apparent than ever. All we have is this decade to turn the direction of the world.

The European Union is seeking to reduce emissions by 55 percent by the year 2030 and carbon neutrality by 2050. The recommendations of the Finnish Climate Change Panel for emission reduction are 60 percent by 2030 and 70 percent by 2035, by which point the entire country should also be carbon neutral. The emissions from 1990 are used as the reference level for emission reduction. The remaining 30 percent is expected to be equal to the carbon sink comprised by forests at that time, which would mean that we had reach equilibrium or neutrality.

As operators in the real estate and construction sector, we produce approximately one third of the emissions in Finland, so the objectives we set ourselves are not insignificant. We are reaching the final moments to ask ourselves whether we are going to be part of the solution or the problem?

The Finnish real estate and construction sector must become carbon neutral at the same pace as the State by 2035. The measures presented in this programme allow us to reach that goal.

What emissions should be reduced and by how much?

The objectives described below have been discussed with specialists in the field during different stages of the #BuildingLife project. They have been commented on by more than ninety specialists in workshops and dozens more through a survey.

After the workshops and surveys, we have interviewed top scientist in the field in assessing the achievement of the objectives. The opinion of the sector is unanimous: The Finnish real estate and construction sector wants to be at least as ambitious as the Finnish Government. It only remains for us to identify the best measures to realize this ambition.

According to the low-carbon roadmap for the construction industry produced by the Confederation of Finnish Construction Industries RT, three quarters of the emissions related to the built environment are produced by the consumption of energy by existing buildings, and the remaining fourth by building materials,



worksite activities, and transportation. In the pursuit of carbon neutrality, all three require investment. The emission trends related to energy consumption are largely dependent on the action taken by energy companies. According to the updated estimate of Finnish Energy from 2021, emissions related to district heat will be reduced by 80–90 percent by 2035. Thus, the role of the real estate and construction sector will consist of improving the energy-efficiency of existing properties by optimizing their use and carrying out energy renovations. Various PPA schemes where commitments are made to purchase clean energy in the longer term are also an effective way for operators in the real estate industry to support the increase in clean energy sources. While the consumption of energy by each property or the production of each power plant may not be carbon neutral by 2035, it would seem at this point that we are getting close. EMISSIONS FROM ENERGY CONSUMPTION MUST BE REDUCED AT THE SAME PACE WITH THE ENERGY INDUSTRY BY AT LEAST 90 PERCENT BY THE YEAR 2035.

The methods and materials used for construction comprise the core issue under the responsibility and authority of the real estate and construction sector. The amount and type of the cement and steel products we use in the future will be decisive in the reduction of emissions from building products. Although hydrogen-reduced steel is already available and various carbon capture methods are developing further, we cannot wait for the wider commercialization of these solutions if we want to achieve carbon neutrality by 2035.

Pioneers in the field are already showing us that the halving of emissions from building products is not only possible but also seen as a good business opportunity. EMISSIONS FROM THE MANUFACTURING OF BUILDING PRODUCTS MUST BE REDUCED BY 50 PERCENT BY THE YEAR 2035.

A third part of the equation consists of the emissions from worksites and transportation, where the development goes hand in hand with electrification and renewable fuels. Transitioning to low-emission fuels will most likely be the most significant act of the coming years, but it is only an intermediate step on our way toward an electric society. The necessary changes will be easier to implement on smaller housing construction sites and in light transport, whereas doing the same will take more time with heavier transport and larger worksites. **EMISSIONS FROM WORKSITES AND TRANSPORTATION MUST BE REDUCED BY 50 PERCENT BY THE YEAR 2035**.

Formula for carbon neutral built environment

A carbon neutral built environment refers to a situation where the annual emissions and positive climate effect of the built environment are in balance.



The total reduction in emissions from the built environment in accordance with the targets described above amounts to 80% by the 2035.

By using the emission breakdown presented in the RT roadmap (energy consumption 75%, materials, worksites, and transportation 25%) and the emission reduction targets provided in the previous chapter, we can easily calculate the total impact of the emissions reductions with the following formula: 75% * 90% + 25% * 50% = 80%75% * 90% + 25% * 50% = 80%



As the year 2035 is, however, in the distant future, we need clear intermediate targets for the reduction of emissions. The activities specified for different organization types in this programme are used to pursue the emission reduction path presented in the below chart.

It is assumed that the easiest and most significant emission reduction measures will be carried out in this decade, which is why the most significant emission reduction targets are also scheduled for the 2030s. After the initial surge in emission reductions, the pace will slow down slightly at first, picking up with technological advancements later on in the 2030s.

Intermediate targets for reducing the emissions of the build environment described for target years 2025, 2030, and 2035.

Year	2025	2030	2035
Emission reductions	Material-related emissions reduced by 25 percent. Worksite emissions reduced by 25 percent. Emissions from the energy consumption of existing building stock reduced by 40 percent.	Material-related emissions reduced by 40 percent. Worksite emissions reduced by 40 percent. Emissions from the energy consumption of existing building stock reduced by 70 percent.	Material-related emissions reduced by 50 percent. Worksite emissions reduced by 50 percent. Emissions related to energy consumption reduced by 90 percent.
Reaching equilibrium	The first projects that are carbon neutral throughout their life-cycle.	The energy consumed by properties of professional owners of real estate is carbon neutral.	New building projects are carbon neutral.

Carbon neutrality cannot be achieved without positive climate impacts

In the pursuit of a carbon neutral built environment, the reduction of emissions by 80 percent alone is not sufficient. We will also need positive impacts each year, and they must be equal to the amount of emissions produced.

One of these impacts is the carbon storage in long-lived wood products included in the LULUCF calculations as well, which refers to the annual difference between new wood products and decommissioned wood products. This represents the increase in carbon storage in wood products. In 2017, the figure corresponded to approximately 19 percent of the annual emissions of the built environment, but it does of course comprise the carbon storage for wood products used in other sectors as well.

The carbonation of concrete from demolished buildings, renewable energy supplied to the network, or carbon sinks resulting from the creation of green spaces could also be included in the positive environmental impacts. The programme also presents measures for increasing these positive impacts, but the assessment of their effectiveness will require further investigation. In terms of magnitude, these positive impacts represent approximately 20 percent of the current greenhouse gas emissions of the built environment. These impacts must be reinforced and maintained alongside the emission reduction measures to achieve carbon neutrality.



TABLES OF MEASURES

In this chapter, we present measures for eight different operator groups in the real estate and construction sector:

- Building products industry
- Construction companies
- Developers
- Infrastructure project clients
- Planners and other specialists
- Real estate investors
- Municipalities, cities, and other public operators
- Organizations

The tables of measures offer guidelines for the development of the operators' processes, but they do not provide strict instructions on how to adjust their business activities. This is a decision only the companies themselves can do.

Instructions for reading the tables of measures

The tables include the key measures each group of operators can influence. The measures are divided under the headings of "Development of Organization" and "Development of Production."

Development of Organization is aimed at improving management, competence, and communications in your organization. In turn, Development of Production aims to reduce the emissions of each individual construction project or manufacturing plant. The tables of measures present years for the commencement and completion of each measure. However, the operators can adapt the provided timeframes in their own activities to correspond to their specific needs as well as specify more ambitious targets.



BUILDING PRODUCTS INDUSTRY

Organizational developments

-2023		-2025	5			-203	0		-2035	
Assess the emissions of your organization in accordance with the GHG protocol including Scopes 1, 2, and 3	Make a co accepted system su Targets	ommitment emissions uch as Scie	to a gen reportir nce Bas	neral ng sed	Require yo to commit	ur stakeho to carbon i	older group neutrality	S		
Specify targets and create a pl. reducing the total emissions of Set a benchmark for different Prepare plant-specific action p	an of action your value product typ lans	for chain. es.	Prepare and indi	a circula cators for	r economy your orgar	strategy nization	Compensat eliminate	e the e	emissions you canno	ot
Set inte reduction	rnal prices ons in your (for emissio organizatio	n n	Monitor emission and spec plan furt	the develo situation ify your ob ther where	oment of th in the valu jectives ar necessary	ne e chain nd action /.			
Join the FIGBC and partic sector's joint developmen	ipate in the t projects	Take p projec of mat	art in re ts, such erials n	egional m as the de narkets	aterial flov velopment	v t	Prepa positi	are an vity	action plan for carbo	on
Take part in joint sector that prom	projects in ote carbon i	the neutrality	Partic a new	cipate in th Energy E	ne negotiati fficiency Ag	ons for greement				
Draw up competence requirement different roles in your organization improve the organization's compet controlling the total emissions in l	s for n and ence on ine with	Make sure internal si interpret	that re takehol and pro	elevant ders can duce EPD	s Diects relat	ed to low-c	arbon cons	tructio	n product	
the competence requirements		declaratio change in	ns, circ line wit	ular econ h the com	petence re	ersity, com quirements	pensation, a	and ad	apting to climate	
Comprehensively involve cess. Survey interested p units and utilize them in opment activities throug	your perso parties in di the deployn hout the org	onnel in the fferent bus nent of the ganization	e pro- siness devel-	Utilize low-ca	personal b rbon appro	onus scher aches	nes as incer	ntives f	or developing	
Offer thesis	project opp	<mark>ortunities p</mark>	pertainir	ng to low-	carbon app	roaches				
	Prepare E your best	PDs for the	e top 40 oducts) % of	Prepare % of you	EPDs for t r best-sell	he top 70 ing	Prepa produ	are EPDs for all icts	
Prepare product-specific Enviro Declarations beginning with mo products	onmental P re carbon-	roduct intensive			products	,				
Make sure that third party	the EPDs a	re prepare	ed in acc	cordance	with EN 158	304 + A2 st	andard and	that t	hey are verified by a	
Produce and publish inform the life-cycle emissions of p and solutions	ation on products	Support	your cus	stomers a	nd other st Require E	akeholders PDs from	in choose l the packagi	ow-ca ng as '	rbon alternatives well	
Make the extension of the product life-cycle (repairability, serviceability, and remanufac-	Develop r for produce Make sur	ecycling se cts e that 20 %	rvices	Makes produc mater	sure that ra cts compris	w materia se 20 % of r	ls used for recycled	Mal mat pro	ke sure that raw terials used for ducts comprise 50 %	6
products key principles of product development	of produc recycled. recycling instructio	ts can be Prepare	Ma 50 cai Pri	ike sure th % of prod n be recyc epare recy	hat ucts led. vcling	Make sur of produc recycled.	e that 75 % ts can be Prepare	ofr	ecycled materials	
Further develop all products of your company in accordance with the principle of sustained	the produ	icts	ins pro	tructions oducts	for the	recycling for the pr	instructior oducts	15		
development from the perspective of circular economy business models	Investigat products Investigat factory-se	e the possi instead of s e options fo erviced pro	bility of selling ti or devel ducts ir	servitizin hem. oping istead	g De in im	evelop alte your portf iprove	rnative pro folio that ar	ducts e diffic	tor products cult to	
Include Environmental Product Declarations in product develop- ment to support the development	Also reme used and u flow with p	ole product: mber to de itilize recy backaging	s velop y clable a	our packa Ind reusa	ging furth ble packag	er! Reduce ing options	the amoun 5. Aim towa	t of pa rd 100	ckaging materials -percent material	
Communicate openly both interna environmental impact of constru practices and major challenges o	ally and ext ction and th f the low-ca	ernally on le best con arbon appr	the crete oach	Commun uses con	icate trans pensation	parently o systems i	n the subje n its activiti	ct if yo es	our organization	
Inform your customers of the car of your products and guide them low-carbon choices	bon footpri to make	nt Repo produ	rt the lif ucts to y	fe-cycle ca our custo	arbon footp mers	rint of you	~	Comn succe organ	nunicate on the sses of your ization as well!	
Involve your supply chai emissions	n in the red	uction of	Cr sp	reate exar becific me	nples of ma asures and	nufacturir their effec	ig-plant- tiveness			

DEVFI OP

GREEN BUILDING COUNCIL FINLAND



The building products industry has a major responsibility in the emission reduction work of the sector. Low-carbon buildings cannot be built without low-carbon products.

In recent years, we have observed a significant turning point in the sector with suppliers introducing more and more innovative products to the market, which have been manufactured taking into account the energy consumption of manufacturing plants, origin of materials, and recyclability in the future.

In order to achieve their objective, material suppliers must prepare a plan for each manufacturing plant. The corrective measures vary significantly, but the goal remains the same: the emissions from manufacturing must be halved without compromising on technical characteristics.

Manufacturing-plant-specific measures

	-2023	-2025	-2030	-2035					
ENCY	Replace purchased electricity with fossil-free sources. Favor renewabl gy sources	e ener- by favoring Power Purcha Agreements. Only purcha from renewable sources	ble electricity ise se electricity Trans	only use fossil-free energy sition 100 % of					
SY EFFICI	Transition the fir plants from foss renewable fuels electrification of	st manufacturing il fuels to or the production	f manufacturing plants from newable fuels or the production produ	Ifacturing plants from fuels to renewable or the electrification of uction					
IERO	Make sure that the energy-efficien recycled inhouse or externally. Inv	cy of manufacturing plants and the rel estigate the possibility of electrifying t	ated properties is at a decent level an the operation of your manufacturing p	d that waste energy is lant					
Ш	Join the sector's Energy Efficiency	Agreement	Invest in lo renewable	cal production of energy					
SS	Investigate your options to utiliz raw materials in production Pro a circular economy promotion p manufacturing plant	re recycled epare olan for your	Monitor the implement economy promotion p further where necess	itation of the circular lan and develop the plan ary					
D PROCE ONS	Identify the emission sources of each product of your manufacturing plant and develop alternative production methods for processes whose emissions are difficult to reduce								
L ANI AISSI	Enable the recovery of surplus materials for use as raw material i manufacturing plants	Where possible, uti n and bio-based raw	lize renewable Aim to phase or materials production	ıt fossil materials in					
ERIA EN	Replace for with bio-ba	sil materials used in packaging sed products							
ИАТ		Develop products that can absorb	carbon dioxide						
2		Pilot carbon capture technologies manufacturing plants	in Develop and implei technologies in ma	nent carbon capture nufacturing plants					
_	Discuss the carbon dioxide em activities with your suppliers a create an action plan for reduc	issions resulting from their and partners and guide them to ing emissions	Require the use of renewable fuels in	transportation					
CHAIN	Require your suppl reduction targets (f and benchmarks fo	ers to set their own emission or example, Science Based Targets) r the emissions of products							
ПРРГУ	When choosing suppliers, also tak the environmental objectives into account: will the partnership help you in achieving your objectives?	e Require your supp their activities by 3	liers to reduce the emissions from 30 %						
S	Conclude partnerships: identify an industrial side flows and offer your flows to other operators	d utilize local • production side	Require your suppliers emissions from their a	to reduce the ctivities by 50 %					





CONSTRUCTION COMPANIES

The emissions from the activities of construction companies comprise worksite activities and transportation. The electrification of worksites requires persistent work and novel innovations. However, construction companies can also influence the products they build. They can function as experts on the impact of construction and material choices on climate change toward the clients

Organizational developments

-2023		-2025			-2030		-2035
Assess the emissions of your organization in accordance with the protocol including Scopes 1, 2, and	e GHG 3	Make a commitment a general accepted emissions reporting system such as Scie Based Targets	t to M si nce W	lonitor the development of the emissior ituation of your activities and specify our objectives and action plan further there necessary			Compensate the emissions you cannot eliminate
Specify targets and create a the emissions from your bus benchmark for different pro	plan of a iness act ect type	ction for reducing tivities. Set a s.	Prepar strateg organi	re a circular ec gy and indicato zation	onomy Preprint Prepri	oare an oon pos	action plan for itivity
Specify targets and create a plan of action for reducing the emissions from your business activities. Set a benchmark for different project types.				Create an Em Worksite con offer to client Make sure tha have impleme	uire a carbon rality commitment your stakeholders		
Engage in market dialogs through w criteria for public tendering can be	hich con created	crete and realistic		monitoring sy	stem.		
Develop a process of low-carb construction and deploy it throughout your organization	on Dev fur beg org	velop your low-carbor ther toward carbon no jin to deploy it throug anization	n process eutrality a hout your	and for eac	p a carbon neutral h project type	ity con	cept
Join the FIGBC and participate in the sector's joint development projects	Take pa sector t neutral	rt in joint projects in t hat promote carbon ity	the Ta ba	ke part in the anks and other	development of ma circular economy p	terial project:	5
Offer training to your subcontrac Draw up competence requirement different roles in your organizatio improve the organization's compe controlling the total emissions in the competence requirements Make sure that your production pe understand the impact of worksite activities on the emissions of a bu	ting cha s for n and tence on line with ersonnel ilding	in as well Make sure that you personnel can inte Train your personne declarations, circul climate change in lin	ur procure rpret EPI el on subje ar econor ne with th	ement Ds ects related to ny, biodiversity te competence	low-carbon constr , compensation, ar requirements	uction, nd adap	product ting to
Make sure that your key stakeholde footprint calculations and Environn	er groups nental Pr	can interpret carbon oduct Declarations			Improve rep	air con:	struction competence
Comprehensively involve yo interested parties in differe deployment of the developm	ur perso nt busin ient activ Offe	nnel in the process S ess units and utilize t vities throughout the r thesis project oppor	Survey them in th organiza	tion bectaining to lo	ersonal bonus scho ng low-carbon app w-carbon approacl	emes a roache hes	s incentives for s
Communicate openly both inter- environmental impact of constr practices and major challenges	nally and uction ar of the lo	l externally on the nd the best concrete w-carbon approach	Commu uses co	inicate transp mpensation s	arently on the subj ystems in its activi	ect if y ties	our organization
Inform y footprint them to	our custo of the pr make ow	omers of the life-cycle oducts and buildings -carbon choices	e carbon and guide	Report the products t	life-cycle carbon o your customers	footpri	nt of your
Involve your supply chai emissions	n in the r	reduction of Ev de	valuate the	e effectiveness velopment fror	s of your successes n your own activitie	and s	
Remember to cc	mmunic	ate on your successes	s as well!				

Production measures

	-2023		-2025		-203	30		-2035
	Aim to utilize data models and othe efficiency of quantity surveying, car materials management on the worl	r digital solutio bon footprint c site	ons to boos calculation,	t the , and	Include instruction building in its ma	ons for the intenance	e carbon n e manual	eutral use of the
	Assess the carbon footprint of eac during the planning stage and use information for support in plannin Verify your calculations once the p been completed	h project the g guidance. roject has	Reduce t each pro referenc stage	he life-cycle c ject by 15 % co e level during	arbon footprint of mpared to the the planning	Reduce footprin compar during	the life-c nt of each ed to the the planni	ycle carbon project by 50 % reference level ing stage
	Assess the energy requirements an cients of each project during the pla the information for support in plann your calculations once the project h	d emission coe Inning stage ar ing guidance V as been compl	effi- Co nd use m 'erify pr .eted as	onduct a demo aterials survey ojects Aim to r possible	lition review and in repair and demo euse materials as m	lition nuch	Reduce footprin % comp level du	the life-cycle carbon It of each project by 70 ared to the reference ring the planning
	Set project-specific targets to s objective of your organization	support the ove	erall	Pilot carbon different pro	neutrality plans for ject types		Stage	
	In the planning brief, emphasiz reduction of loss	e material effic	ciency and	In the plannin assessment o alternatives o	ig brief, encourage t of low-carbon in the product level	he		
		Produce mat	terial pass	ports for proje	cts			
	Prepare a recycling plan for w ensures that no mixed waste i sites Recycle all worksite was the amount of combustible wa	orksites, whic s generated at te Aim to redu ste generated	ch Se the ma ice	et a target recy aterials used i	cling rate for the n a project	Make sur in a proje material	re that 25 ect are pro s	% of the materials used oduced from recycled
	Execute temporary structures, such scaffolds, and safety equipment, uti reusable solutions	n as molds, lizing	Identify recycle	y partners thro e surplus mate	ugh whom you can rials	Make used recyc	e sure that in a proje cled mate	t 40 % of the materials ct are produced from rials
	Work together with mate improve lot sizes to allov exact right amount of pr	erial suppliers w you to order t oduct to the wo	to the orksite	Prepare a den indicates subs	nolition plan for the sequent uses for the	property, materials	which	
	Where necessary, conduct a demoli survey and aim to utilize demolition on-site; this should be taken into ac project planning from the beginning	tion E materials r count in c r	Before a pro nearby dem dustrial pla materials	oject commenc olition sites, w nts that could p	es, investigate orksites, and in- provide recycled			
	Investigate your options for using lo products	w-carbon	During pro the fuel con manufactu	curement, den nsumption of tr iring plants	nand information on ransportation and			
	Inform your clients of the availab	le options		Demand carbon neutrality plans from major m suppliers				naterial
	Demand EPDs or other proof of emissions for the most common materials Indicators can be bas	material I Ily used I ed on a r	Require EP Indicators o mate or ma	Ds for 30 % of can be based o iss	procured items. n a cost esti-	Require items. In cost estin	EPDs for 6 dicators c mate or m	0 % of procured an be based on a ass
	cost estimate or mass					Rec ma bas	quire EPD: terials. In sed on a co	s for almost all dicators can be ost estimate or mass
0	Support material suppliers in th development of low-carbon pro solutions by identifying applicat new products and thus increasi	ducts and f tions for c ng the	Determine f fossil mater of materials	the amount of f rials used in th s	ossil fuels and e manufacturing	Make sur raw mate the manu project	e that foss rials have Ifacturing	sil fuels or fossil not been used in of materials for the
	Favor prefabrication in order to r wastage	educe r	Pilot timber renewable r	r construction a materials in co	and the use of nstruction	Start buil neutral p	ilding your first carbon project	
	Optimize worksite processes by us	ing data mode	els	Use only renew	wable energy in pro	duction		
	Ensure the efficient use of equ equipment from external parti leasing your equipment to othe	ipment by rent es and also by ers when it is n	ing Di ot ar	for transportat iscuss the moo nd the develop	mission equipment ion lernization of equip ment of existing eq	ment uipment	Favor ele	ctrically equipment
0	Preeded Optimize the utilization of working n training and intensive courses on economic operators	nachinery by of cologic driving	ffering to the	th equipment Phase out ge fossil fuels a	rental partners nerators powered at worksites	by	Make sur infrastru also sup	e that the charging acture of worksites ports the needs of
ICVND	Assess the calculation of the work ensure that it also includes any de work carried out at the site	site carbon foo molition and e	otprint to xcavation	Monitor and efficiency of Reduce the l	improve the energy worksite facilities	e stane	subcontr Support t existing v	he development of working machinery
8	Only renewable electricity is used possible sources of renewable the investigated	at worksites a rmal energy a	ind re	by favoring p	refabrication ssions from procure	ement	toward el Support equipme	lectrification the modernization of nt by your partners
	Worksite generators use renewab possible	le fuels where	ever	and tran and rep The schedulin	orted to the client	unea	and the p of equipr by propo	roduct development nent manufacturers sing pilot projects
	Aim to connect the worksite to the h property as quickly as possible	leating system	of the	designed suc maximized	h that energy-efficie	encyis	and part	nership models

PLANNING GUIDANCE

UTILIZATION OF

FAVORING LOW-CARBON

GREEN BUILDING COUNCIL FINLAND



DEVELOPERS

Developers have influence over everything during the construction stage. Due to their comprehensive outlook and influence, developers can ensure that low-carbon objectives are made part of the project from the very beginning. The guidance process emulates cost control.

When the reduction of carbon footprint is made a priority from the very beginning of a project, positive impacts can be achieved without sacrificing the project's other objectives.

Organizational developments



Production measures

	-2023	-2025			-2030	-20	35	
	Assess whether customer value co construction. Can the service be pr	uld be created withou ovided within an exist	t new F ing property? a	Prepare a ca issess the co	rbon neutralit ost impact	y plan for each project	and	
	Set project-specific targets to supp the overall objective of your organized objective of the second	ort Redu zation each	ce the life-cycle c project by 15 % co	arbon footp mpared to t	rint of he			
ACE	Assess the carbon footprint of each during the planning stage and use th tion for support in planning guidanc calculations once the project has be	project ie informa- e. Verify your en completed renev mate	rence level during ate possibilities of vable and carbon-l rials	the planning using pinding	g stage Reduce the lif print of each compared to t	fe-cycle carbon foot- project by 50 % the reference level		
GUIDAN	Assess the energy requirements and coefficients of each project during th stage and use the information for sup planning guidance Verify your calcula the project has been completed	e planning pport in ations once for ener manage	the utilization of all gy production, rair ement, or urban gre	l roof areas hwater eening	during the pla	carbon ect by		
NING	Designate a carbon footprint specia for the project from within or outsic of the organization	llist Designate a st specialist for f the resource-	tructure technical the project to supe efficiency of the pl	rvise ans		reference level durin planning stage	g the	
ANI	Demand detailed ground surveys at the early stage of project planning	Conduct groun	luct ground surveys before pro planning or preferably before t		lude instructio utral use of the	ons for the carbon building in its		
2	In repair and demolition projects, carry out a materials survey and aim to reuse as much of the materials as nossible	acquisition of plot can be us construction p	land to ensure that ed for a low-carbo project	t the ma n Pre ada	intenance mar pare a report c ptability to clin	nual of the project's nate change		
	In the planning brief, emphasize mat	e- Prepare demoli	ition and reuse pla	ins for		5		
	the planning brief, encourage the assessment of low-carbon alternativ on the solution and product level	/es	Make sure that th where necessary	e intended u	ise of each pro	oject can be altered		
~	Prepare plans for the alteration of th	e intended use for park	king solutions					
0F NOM	Implement sharing economy solutions in projects, including car sharing and communal tools Where necessary, perform a demolition Before a project commences.							
R ECO	survey and aim to utilize the demoli materials on-site; this should be tak account in project planning from the	tion investigat ken into worksites beginning could pro	e nearby demolitic , and industrial pla vide recycled mate	on sites, ants that erials	which indicat subsequent u structures	tes possible further an uses for the materials	and , , , , , , , , , , , , , , , , , , ,	
	Specify sorting targets for worksites	Specify a target rec rate for the project	ycling Make su materia	Ire that 25 %	of the project are	Make sure that 40 % materials used in a	% of the project	
CIR	Join the Sustainable Demolition Gro	een Deal commitment	produce	ed from recy	cled materials	materials	recycled	
z	Require EPDs for the Require Largest materials procu	ire EPDs for 40 % of Ired items	Require EF procured in	PDs for 60 % tems	of Re	equire EPDs for all mat	erials	
3B0	Investigate your options for using low-carbon products	Pilot timber cons other renewable	truction and the us materials in consti	se Ut ruction	ilize hybrid con	struction solutions in p	projects	
N-CAI ONS	Encourage proposals for low- carbon planning and implementation solutions	Support material su velopment of low-ca solutions by identify	rerial suppliers in the de- flow-carbon products and identifying applications for for the p			sure that fossil fuels or fossil raw materials ot been used in the manufacturing of materia project		
ΔĒ.	Investigate possibilities for using locally produced energy in	demand for low-car	bon solutions	Utilize	trans-seasona	ans-seasonal storage in all projects		
RING	projects Energy for new projects is only purchased from renewable	Investigate the pose trans-seasonal stor	sibilities for rage in projects ilities for using lo	Produce ene	nergy locally in all projects			
FAVO	sources If parking solutions are included in the plans of a project, make	produced energy i Negotiate a purcha	a purchase agreement for		Start building your first carbon neutral			
	sure to include options for charg- ing electric vehicles	which can be utilize users as they wish	ed by the residents	s and	Joingeet			
	Specify limit values for waste materi Determine the structures that of the emissions of the project	al before the contract are most significant ir and investigate low-c	n terms arbon	d that life-cy tions are up	cle emission dated during			
ON N	alternatives Assess the calculation of the works to ensure that it also includes any d	large-s calcula	cale procure tions in mon	ement. Include thly reporting	e emissions	roughout		
RACT	excavation work carried out at the s Implement consistent procurement of product groups	s ite criteria for major	Demand emission strategies and n from contractor	on reduction neasures 's	the life	e-cycle from new proje	cts	
OOPE	Extend the planned us plans for adaptability a intended use	eful life by preparing and alteration of	Include the enti production chai reduction of em	re in in the issions	Support the	modernization of equipr	ment by	
0.0	Create contract forms that sup contractors and planner in inn means of reducing emissions	port the ovating new	support the modernization of your partners and the product equipment manufacturers by projects and partnership mod			s and the product devel aanufacturers by propos partnership models	opment of sing pilot	
		Aim to desig	gn the scheduling on the scheduling of the sched	of worksites maximized				

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GREEN BUILDING COUNCIL FINLAND

CLIENT ORGANIZATIONS IN INFRASTRUCTURE PROJECTS

Infrastructure projects are typically long-term projects with substantial emissions. Functional infrastructure is however necessary for the creation of a low-carbon society.

The clients in infrastructure projects can hasten the low-carbonization of the sector significantly through their actions. Emissions during the construction stage can be reduced in all projects without sacrificing the quality of the results. Clients can also influence the use of infrastructure through information steering. More information about the execution of sustainable infrastructure projects can be found in the Sustainable Infrastructure specification published by FIGBC

Organizational developments

MANAGE

RAN

COMMUNICATE

-2023	-	-2025			-2030	-2035	
Contribute to the deve	elopment of an er	mission database					
Assess the emissions of your organization in accordance with the GHG protocol including Scopes 1, 2, and 3	Make a commit accepted emiss system such as Targets	Make a commitment to a genera accepted emissions reporting system such as Science Based Targets			development of the uation of your activ our objectives and urther where nece	e vities I ssary	Compensate the emissions you cannot eliminate
Specify objectives and interme of action for reducing the emis activities. Set a benchmark for	ediate targets ar sions from your different proje	nd create a plan business ct types	Prepa strate organ	are a circu egy and inc nization	lar economy dicators for your	Requi grou neut	ire your stakeholder ps to commit to carbon rality
Implement the knowledge-based management model from the Infra 2 project to support project planning	2035 Include a carbon fo plans	Life-Cycle Asses otprint in the ear	sment o ly-stage	f the project conomy str	Demand your con neutrality commit	tractors ment	to make a carbon
Develop a process of low-carbon construction using multi-objective and deploy it throughout your orga	optimization inization	and indicator Continue the de construction pr	rs for yo velopme ocess to	ur organiz ent of your support c	ation low-carbon arbon	Unly use have ma develop carbon i	contractors who de a commitment to their activities toward neutrality
Engage in active dialog with partie procurement chain to better under procurement chain challenges. Su	s in the stand the pport the parties	neutrality and d organization s	eploy th	e process	within your		
Join the Green Deal for Emission-Free Worksites	Influence g	uidance in the sec uidelines steer tov	ctor and ward low	the develo /-carbon c	pment of legislatio onstruction metho	n. Make ds	sure that
Use electronic maintenance manuals and material passports	Support the regional ag	e development of gregate manager	digital to nent ser	ols for the vices, by p	e sector, such as proposing pilot proj	ects.	
Prepare reports on the first carbon footprint assessments standardization of calcula Join the FIGBC and participate in Draw up competence requirement	st trials for proj ent to support th tion methods the sector's joir ts for	ect-specific ne nt development pr in vour personnel	on subje	e part in jo itrality ects relate	oint projects in the	sector th	at promote carbon
different roles in your organizatio improve the organization's compe controlling the total emissions in the competence requirements	on and tence on line with	larations, circular nge in line with th	r econor le compe	ny, biodive etence req	rsity, compensatio uirements	n, and ac	lapting to climate
Make sure that your key stak calculations and Environmer	eholder groups	can interpret car larations	rbon foo	tprint	can interpret ca	rbon foo tal Prod	tprint calculations
Comprehensively involve cess Survey interested pa units and utilize them in th opment activities through	your personnel rties in differen ne deployment o out the organiza	in the pro- t business f the devel- ation					
Utilize personal bonus sch developing low-carbon app	emes as incentiv proaches	ves for I	n tender experien projects	ring, favor ce of carbo	consultants and co on footprint manag	ntractor ement ir	s who have construction
Offer thesis	project opportu	nities pertaining t	o low-ca	arbon appr	oaches		
Communicate openly both interna environmental impact of construc practices and major challenges of	lly and external tion and the bes the low-carbon	lly on the Co st concrete us approach	ommunic es comp	ate trans ensation	parently on the su systems in its acti	oject if y vities	our organization
Make sure that commur life-cycle of the project, and demolition	hications accoun ranging from cc	t for the entire onstruction to use	Co cor	mmunicat nstruction	e with the users or and maintenance o	the carb of project	oon footprint of ts
Communicate internally and exter progress of your emission reducti	nally on the on plans	Evaluate your own	the effect activitie	ctiveness c s	of your successes a	nd dema	nd development from
		Involve your sup	oply chai	in in the re	eduction of emission	ons	
Exchange information wi	th other operato	rs in the sector R	emembe	er to comm	nunicate on your su	ccesses	as well!

WORLD GREEN BUILDING COUNCIL #BUILDINGL FE

Production measures

	-2023	-202	5	-2030	-2035		
	Include the carbon footprint of cons the Environmental Impact Assessm transport infrastructure projects	truction in ents for	Communicate on the s infrastructure project to identify synergies b	scheduling of s with other operators etween projects			
ш	Controlling the carbon foot projects is part of the desig	print of all process	Update your planning use of recycled materi	brief: add recovery and als, favor renewable	Make carbon neutrality or carbon negativity the starting point of planning. Specify which measures can be carried out in		
DANC	life-cycle carbon footprint calcula which the contractors can use to o their solutions during the tenderin	tions, ptimize g and Specify	and low-carbon raw materials		further planning		
	development stages Make sure that the project uses co designed structure technical solut requesting internal audits from de	rrectly ions by		Specify carbo are at least 2 reference lev	on budgets for projects, which 5 % below the specified rel		
NINA	Extend the planne plans for adaptab intended use	ed useful life by prepa ility and alteration of	ring				
PL	Use procurement schemes t contractors and planners in means of reducing emissions	hat support the innovating new s					
	Conduct extensive ground surveys serve the design of both aggregate and other structures	to Make sure use to allow fo at a suffici	e that the planning scl or thorough planning. iently early stage and	hedule has sufficient flex By conducting ground su with sufficient scope,	iibility Irveys		
		subgrade particular	reinforcement soluti ly in challenging and	ons can be optimized carbon-intense projects			
OF NOMY	Use an aggregate coordinator to er soil resources and the replacemen demolition and recovered material Engage in active cooperation with o projecte	nsure effective recycl It of rock materials w Is wherever possible. other infrastructure	ling of ith				
	projecta	Demand th	e contractor to provid	e alternatives based on re	ecovered and recycled materials		
ZATI AR E(Before a project commences that could provide recycled m	, investigate nearby de naterials	emolition sites, works	ites, and industrial plants	Make sure that 40 % of the materials used in a project are produced from recy-		
UTILI RCUL	Specify sorting targets for worksites	Specify a targe recycling rate project	t Make sure for the als used ir from recy	that 25 % of the materi- a project are produced cled materials	cled materials		
C	Demand contractors to recover inst from worksites and to forward it for	allation waste Sp reuse m	pecify a limit value for aterial before the con	waste Recycling of su tract purpose they w	rplus materials for the same ere originally produced for		
N	Required EPDs or other emissions calculations for materials with the most substantial emissions	Require EPDs for 40 9 procured items	% of Require procure	EPDs for 60 % of Re ed items	quire EPDs for all materials		
ARBC	Investigate your options for using low-carbon products	port infrastructu in the form of so	ure projects, for exam lar or wind energy	ple			
-OW-C/	Encourage proposals for low- carbon planning and implementation solutions Investigate possibilities for using	Support material su velopment of low-ca solutions by identify new products and th demand for low-car	Ippliers in the de- arbon products and ying applications for hus increasing the	with the topical and ambitious solutions available at each time by communicating with material and equipment suppliers and service providers			
SOLU SOLU	locally produced energy in projects In the procurement organization, f	orm a view of the opp	ortunities for		Produce energy locally in all projects		
VOF	your business activities and their i	mpact on the total cos	spective of		Start building your first		
FA	If parking solutions are included in the plans of a project, make sure to include options for charg- ing electric vehicles	Maximize the carbon tered in soil and gree structure in your pro	seques- en infra- jects		carbon neutral project		
	Set ambitious and realistic procure the KIEPPI project of the City of Ta	ement criteria for eac mpere	ch program, see				
КZ	Set incentives in planning contracts suggesting potential areas for emis reduction	sion	Develop forms of pr the contractor is rei development and im emission reductions	ocurement where nunerated for the plementation of			
RATIC	of working machinery by offer operators further training and instructions	ring the	Pha com Utilize el	ed by sites larly			
ONTR	Provide con electric ma Utilize market dialog and joint dev	tractors the option to chinery at the worksite elopment to identify t	charge e in transp	powered machines) at wo portation o experiment with proact	tive		
ပပ္ပ	market dialog or other new forms Demand contractors to comm tion targets pertaining to wor	of procurement it to emission reduc- king machinery fuels		•			
	Make sure that indicators are	specified for targets	and that their realiza	ation is regularly monito	red		
	Face intentives in tonu att dy	reements, for examp	23		GREEN BUILDING COUNCIL FINLAND		

DESIGNERS AND OTHER SPECIALISTS

MANAGE

COMMUNICATE

FAVORING LOW-CARBON SOLUTIONS

Consultants push the sector forward by offering expert services and developing new solutions to challenges that slow down progress.

	-2023		-20	25			-2030		-2035	
	Assess the emissions of your organization in accordance with t GHG protocol including Scopes 1, and 3	he acc 2, syst	ke a commi epted emiss tem such as gets	tment to a ge sions reporti s Science Ba	eneral ing sed	Monitor emissio and spe plan fur	the developm n situation of cify your objection ther where ne	nent of the your activition ctives and actives actives and actives act	es ction	
	Specify objectives and intermedia and create a plan of action for red emissions from your business act	ate targets lucing the tivities	Pre ecc be cor	epare a strate pnomy in the provided? Ho mpetence?	egy for sector ow can	or expediting circular or Which new services can an you develop your own		Require your stak groups to commit neutrality		older carbon
	Join the FIGBC and participate the sector's joint development	in Take secto	part in join or that pron	t projects in note carbon	the		Prepare an positivity	action plan f	or carbon	
	projects	neut	rality						emissio cannot e	ns you eliminate
	Draw up competence requiremen different roles in your organizatio improve the organization's compe controlling the total emissions in the competence requirements	ur personne re that, for e f the most si work	el exten exampl gnifica	sively to be e, structura nt emission	come develop al and building reduction po	ers of low-c g services er tential from	arbon sol igineers a the persp	utions. re ective		
	Train your personnel on subj declarations, circular econo climate change in line with th	ects relate my, biodive	d to low-ca rsity, comp	rbon constru ensation, and ements	uction, p d adapt	product ing to				
	Comprehensively involve your personnel in the process Survey interested parties in different business units and utilize them in the deployment of the development activities themughent the organization								for develo	ping
	Offer thesis project oppor	tunities per	taining to l	low-carbon a	approac	hes unctions				
	related to projects a	are able to	guide the p	roject towar	rd a low	-carbon re	sult			
Communicate openly both internally and externally on the environmental impact of real estate and the best concrete compensation systems in its activities									r organiza	ition uses
ĺ	Communicate internally and extern	nally on the	progress o	of your	In	volve your s	supply chain in	the reductio	n of emiss	ions
ľ				Evaluate	the effe	ectiveness c	of your success	ses and dema	and develo	pment from
			Invo	olve your sup	oply cha	ain in the re	duction of em	issions		
	Exchange information w	ith other o	perators in	the sector R	ememb	er to comm	iunicate on you	ır successes	as well!	
	Improve your own competenceand range of servicespertaining to controlling thelife-cycle carbon footprint	Make sure t qualified lif control spe he sector	ke sure that there are 100 lified life-cycle emission trol specialists working in sector		Make qualifi contro the se	sure that th ed life-cyc ol specialist ctor	ere are 200 le emission ts working in	Make su qualified control s the sect	re that the l life-cyclo specialists or	ere are 250 e emission s working in
	Improve your own competence and range of services pertaining to the drafting of EPDs	Make su 20 quali working	ire that the fied EPD ve j in the sect	ere are erifiers tor	Ma 40 wo	ke sure tha qualified EF rking in the	t there are PD verifiers sector	Make su 50 quali working	re that the fied EPD v in the sec	ere are erifiers tor
	Develop your own competence on t tion, hybrid construction, and bio-	timber cons based mate	struc- rials	Develop you Develop nev	ur own (w low-c	competence arbon solut	e on different n tions alongside	naterial type: e standard so	s olutions	
	Develop your own competence on i and alterations of intended use	repair cons	truction	Make sure carbon foo	that th tprint	e IFC mode	l of the projec	t supports th	ne calcula	tion of
	Help organizations to develop circu objectives and strategies	ular econor	ny		E e	Devise an in Insure the I	ternal auditin resource-effic	g system the	at is used i hitectural	to and
	Develop solutions that allow for n utilization of data modeling in em	nore effect issions cal	ive culations		5	tructural s Devel	olutions op your compo	etence on ca	rbon-bind	ing
	Draw up a checklist that can be us low-carbon approach is taken into	ed to ensur account in	e that the all projects	5		mater which	ials and mate carbon dioxid	rials in the r le could be u	nanufactu Itilized	ring of
	Make sure that energy emissions a each project	are assesse	ed in							
	Actively offer services related to Share information on the carbon f the structural design. Share infor part of the building services desig	emission c ootprint of mation on yn.	ontrol alon structures the emissio	igside your o s to your cus ons of energ	ther se tomer a y consu	rvices. as part of mption as				
	Develop your own competence on for taking the greenery on plots in	carbon hai nto account	ndprint. De in emissio	velop calcul	ation m on	odels				
	Improve your competence and ran economy in planning and project of	nge of serv guidance	ices furthe	r to include	circula	r				



REAL ESTATE INVESTORS



EU legislation and the taxonomy criteria in particular will have a substantial impact on the activities of real estate investors. Thus, investors have significant influence on the carbon neutralization of the energy consumption of property stock in particular.

-2023	-2025	-2030	-2035
Assess the emissions of your organ zation in accordance with the GHG protocol including Scopes 1, 2, and	 Make a commitment to a gene accepted emissions reporting system such as Science Based 	Monitor the development of th situation of your activities and your objectives and action pla	e emission specify n further
Specify objectives and intermediat targets and create a plan of action reducing the emissions from your business activities. Set a benchman for different project types	e for Prepare a circular economy your organization	strategy and indicators for Demand your contractors to make	Require your stakeholder groups to
Include a Life-Cycle Assessment of the carbon footprint in the early-sta project plans	ge	a carbon neutrality commitment	neutrality
Determine the taxonomy-eligibility an action plan for improving your e	/ of your business activities and pr ligibility	Only invest in projects that ar	e
Join the Net Zero Carbon Buildings Demand service providers to make	Commitment a carbon neutrality commitment t	taxonomy-eligible	
the use-phase emissions of real es Use electronic maintenance manuals and material passports	tate Take part in the negotiations for joint Energy Efficiency Agreemen for the sector	Achieve carbon neutrality of energy ats consumption throughout your portfolio	Compensate the
Join the FIGBC and participate in the sector's joint development projects	Take part in joint projects in the sector that promote carbon neutrality		cannot eliminate
Report the structural and life-cycl	e carbon footprint in the context of	f real estate transactions	
Draw up competence requirements different roles in your organization improve the organization's compet controlling the total emissions in li	and Train your personnel or declarations, circular e change in line with the	n subjects related to low-carbon construct conomy, biodiversity, compensation, and competence requirements	adapting to climate
the competence requirements Make sure that your key stake calculations and Environmen	tal Product Declarations	Make sure that all per- design and control fun projects are able to gu	sonnel working in ctions related to ide the project toward
Comprehensively involve y cess Survey interested par	our personnel in the pro- ties in different business	ilize personal bonus schemes as incentive v-carbon approaches	es for developing
development activities thr	oughout the organization	ike training available for your subcontra	cting chain as well
Make sure that all personn control functions related to the project toward a low-co	o projects are able to guide arbon result	perience of carbon footprint manageme ojects	nt in construction
Communicate openly both internal environmental impact of construct practices and major challenges of t	ly and externally on the Increas ion and the best concrete project the low-carbon approach data fo challer	se transparency on the environmental in ts. Use your own projects as examples ar r general use. Communicate openly on b nges	npacts of construction nd produce monitoring est practices and
Make sure that commun life-cycle of the project, and demolition	ications account for the entire ranging from construction to use	Share the results and lessons from pr others and distribute practices that ha	ojects openly with ave proved effective
Communicate internally and extern progress of your emission reduction	nally on the Evaluate th on plans your own ac	e effectiveness of your successes and der ctivities	mand development from
	Involve your suppl	ly chain in the reduction of emissions	
Exchange mormation with	n other operators in the sector Ren		
consumption of properties by pr	operties and regularly develop the Make sure that majority of purchas	e monitoring through Power F for example	Purchase Agreements,
production during the investment stage	electricity comes from renewable sources	Make sure that majority of deliver renewable sources	ed energy comes from
Survey energy efficiency measures and implement the most feasible	Carry out energy efficiency pr each year	ojects Make sure that the energy efficie at the highest level in the sector	ency of your properties is
Take part in Energy Efficiency Agree	ements		
Set ambitious targets for emissions	and monitor their achievement acti	Compensate for the remaini emissions by investing in ca	ng energy consumption rbon sinks
Investigate your options for on-site production of renewable energy	 Implement renewable energy multiple properties 	production in Utilize demand f waste energy, a	lexibility, recycling of nd energy storage at
Create solutions for facilitating the	e recycling and recovery of users'	movable property your properties	
See the table of measures for Deve	lopers		

FAVO



MUNICIPALITIES, CITIES, AND OTHER PUBLIC ENTITIES

Public operators influence all construction projects and properties. Their steering effect is significant in zoning, construction supervision, and regulation, but municipalities are also a substantial property owner and developer. Public operators have been specified special measures, but they should also take the measures included in the tables of measures for developers and real estate investors into account in their projects.

National regulation

-2023	-2025			-2030				-2035	
Specify limit values for the life-cycle carbon footprint of projects									
Gradually tighter footprint	n the limit values for life-cycle carbon			The lim footprin of the o	it va nt an rigin	lues for carbon nounts to 50 % al limit value	The l footp of the	imit values for carbon print amounts to 70 % e original limit value	
		Specify national emission targets for transport infrastructi							re projects
Maintain and update an emission database (co2data.fi)									
Develop legislation to support the r of structures and materials	euse Update and streamline recycli tions and permit processes to the use of recovered and recy rials in short-term projects at				regula- E low for r ed mate- vell	Expe nate	dite the approva rials	l proces	s for new
Development of the activities of the municipality or city									
-2023		-20	25		. ,		2030		-2035
Demand service providers to make	e a carbon	-20	20		Manitan	-		th a	2000
neutrality commitment to minimiz use-phase emissions of real estat Assess the emissions of your organization in accordance with th	e the e M g e GHG r	Make a co general ac reporting	mmitment cepted em	to a hissions ch as	emissio activitie objectiv	n siti s an es ai	development of uation of your d specify your nd action plan fu	urther	Compensate the emissions you cannot eliminate
protocol including Scopes 1, 2, 3	S	cience B	ased Targe	ets Ion come	where h		Require your s	takehol	der groups to
mediate targets, action plan, and m	onitoring	interi	nediate ta	irgets, an	d monitorin	e, g	commit to carb	on neut	infrastructure
tools for the municipality Make sure low-carbon approach is included in municipal or urban strategy	that the	tools Investigat council ta	for the mu te options f ix rates to	for offerin low-carbo	y ig lower on buildings		projects on lo the identificat	ng-term ion of sy	n basis to allow for nergies between
Prepare instructions for low-carbon planning									
Steer the mindset of policymakers to emphasize the low- carbon approach Make sure that municipal decisionmakers have sufficient information for their decision-making Initiate plans for the coordination of the energy efficiency									
Support private property owners t consultation and training	hrough	c tl	onsultatio	n service ation	sector and a	lloca	ate resources re	quired f	or
Reinforce cooperation between cit low-carbon approach. Contribute low-carbon approach a leading pri programs as well	ies to prom to making t inciple in re	note the the egional	Create in order to i	identify be	al contacts i est practices	n	Promote inte and support objectives	ernatior other ci	nal cooperation ities with their
Engage housing companies in energy work through effective information	gy efficiency steering	У		Tak	e part in join trality	t pro	jects in the sect	or that p	promote carbon
Join the FIGBC and participate in th	e sector's j	oint devel	opment pr	ojects					
Steer urban construction by spec Help ambitious operators to pilot	ifying low- their solut	carbon o tions	bjectives i	n land us	e agreemen	ts ar	nd the condition	s for plo	otsales
Draw up competence requirement different roles and improve intern petence on controlling total emiss line with the competence requiren	s for al com- ions in nents	Train yo declara change	ur personi tions, circu in line with	nel on sub ular econo n the com	ojects related omy, biodiver petence requ	d to l sity, jiren	ow-carbon cons compensation, nents	and ada	n, product pting to climate
Make sure that your key stakeholder groups can interpret carbon footprint									
Comprehensively involve Survey interested parties	your perso in differen	nnel in th t departr	e process nents and	Utilize low-ca	personal bor rbon approa	nus s ches	chemes as ince	ntives fo	or developing
activities	nent of the	aevelopi	nent	Make t	raining avai	able	e for your subco	ntractin	<mark>ig chain as well</mark>
Make sure that all personnel work functions related to projects are ab toward a low-carbon result	ing in desig ble to guide	n and con the proje	itrol ect	In tend experie	ering, require ence of carbo	e cor n foc	sultants and cor ptprint managem	ntractor ient in co	s to have onstruction projects
Communicate encely both interes		ornally	n the					alimna	to of construction
environmental impact of construct practices and major challenges of	tion and th the low-ca	ernally o le best co arbon app	ncrete proach fo	rojects. U pr genera	se your own l use. Comm	proj unic	ects as example ate openly on be	es and p est pract	roduce monitoring dat tices and challenges
Make sure that commun life-cycle of the project, and demolition	ications ac ranging fro	count for om constr	the entire ruction to u	use o	hare the res thers and dis	ults strib	and lessons from ute practices the	m projec at have p	cts openly with proved effective
Communicate internally and exter progress of your emission reducti	nally on the on plans	e	Evalua your o	ate the eff wn activit	ectiveness o ies	f you	ir successes and	d deman	d development from
Make sure that residents also ha opportunity to review the climate zoning and urban planning decisi	ve the e impact of ions	Inv	volve your hissions	supply cl	nain in the re	duct	tion of		
Exchange information wi	th other ope	erators in	the secto	r Remem	ber to comm	unic	ate on your succ	esses a:	s well! GREE

REGULATORY WORK

26





Production measures

-2023	-2025			-203	-2035	
Also see the table of measures for	infrastructu	re project (clients!	1		1
Specify low-carbon objectives alre zoning stage. Also account for the a to climate change	ady at the Idaptation	Reserve	e space for the s ies in new town	torage of energy in plans		
Specify life-cycle carbon footprint requirements for plot tendering com	petitions	pla	nning reservati	on processes		
Focus construction in areas with th conditions for low-carbon construc into account the foundation condition	Favor i survey	nfill developme s in zoning se the number o	ent and utilize groun	d Only add to th through infill	Only add to the built environment through infilling Aim toward zoning where changes	
existing carbon sinks, and infrastructure		and un	zoned areas			
in such areas Include regenerative basis for regional planning	design as a	Include adapta	e requirements bility plans in b	for demolition and uilding permits	equilibrium	avereacheo
Require demolition and recycling pla new construction projects	ans for	Specify for pro	/ objectives on 1 jects	the use of renewable	e materials	
Allow alterations of intended use to use of building stock	o enable effe	ctive	Investigate op fees for carbo	tions for higher coun n-intensive projects	cil tax rates or land	duse
Investigate options to expedite the ze processes for low-carbon projects	oning and per	-mit	Develop the un Locate service	rban structure to sup es, workplace areas,	port low-carbon h and residential are	ousing. eas such that
Investigate options for favoring marl and support the spread of electric cl infrastructure	ket-based par harging	rking	ancy over tap		Prohibit the u and require t	l ise of landfill sites hat all materials are
Encourage bicycle and pedestrian tr	affic				recycled	
Determine the typology with the log emissions and aim to zone the land	west regiona accordingly	l carbon				
See the table of measures for deve	lopers as we					
Determine the energy efficiency pote and specify objectives for local produ	ntial of your p iction of energ	projects M gy in	lake sure that th your projects i	ne consumption of er s carbon neutral	ergy Adjust the projects t	objectives for all new o reach carbon neutral
Specify life-cycle carbon footprint requirements for your design competitions and competitive biddir	R ar	equire life- nd reportin Assess	-cycle emission ng from your pro s the emissions	s calculation jects from procurement	Specify objective environmental r	es pertaining to the nanufacturing of
Include life-cycle carbon footprint all public procurement as part of in tender and competitions	steering in witations to	and tra	insportation in y amine whether piect can be red	our projects the emissions of the uced by utilizing	Require E	PDs for all materials in ects
Specify a limit value for waste mater contract	rial before the	e mo	pecify target lev	abricated products	m	
Determine the emissions from your project-specific target levels	projects and	set pr	rocurement and rojects	l transportation in yo	ur Material en 50 % below	nissions of projects the refence level
Increase market dialog in competit ensure that the low-carbon objecti the client for the procurement are a	ive tendering ves specified achieved	g to De I by col fur	velop the life-cy llaborative cont ther to ensure t	vcle contract model a ract form applicatior that they are suitable	and Specify a ta as 20% for the for	rget recycling rate of projects
Aim to avoid demolition and enable t for varying applications	he use of bui	ldings bo	th individual and Make life-cy	d multiple repair proj cle thinking and dur piects	ects ability key design	
If a plot has an existing building, car repairing the building before the pro demolish the building, conduct demo materials as much as possible	ry out a comp ject commen olition survey	parison bet aces. If the on the plo	ween demolish decision is mad t and aim to reu	ing and e to se the		
Provide an example through public and create demand for low-carbon	projects M solutions s c	Make sure t solutions th coordinatio	that the area off nat enable aggre n	ers Require the in egate Emission-Fre worksites	mplementation of ee Worksite conce _l	the ot at your
See the table of measures for real	estate invest	tors as we				
Prepare a plan for improving the en efficiency of municipal buildings	nergy C	Carry out c neutrality f	omprehensive for energy cons	renovations in your sumption	property stock and	d pursue carbon
Introduce electric maintenance man	uals	Investigate	possibilities for	r using locally produ	ced energy in proje	cts
Prepare for climate change by imp rainwater and reducing heat island	roving the ma s	anagemen	t of	Improve the carbon areas	-binding ecosyste	m potential of green
Improve the efficiency of space util and offering facilities to other oper	ization throu ators	ıgh sharing	g solutions			
If parking solutions are included in t of a project, make sure to include op charging electric vehicles	he plans E tions for v	Extensively vehicles, co	facilitate bicycl overed roads, ye	e and pedestrian tra ar-round maintenan	ffic; light electric ce of bicycle paths	
Facilitate temporary use of underu facilities in accordance with princip	tilized facilit	ies. Desigi abilitv	n new			

GREEN BUILDING COUNCIL FINLAND

NON-GOVERNMENTAL ORGANIZATIONS

	-2023	-2025	-2030	-2035
ш	Determine your organization's visio for the future in terms of sustainab development – what kind of a built environment are you working toward? Specify objectives and prepare an action plan for the comin years accordingly to promote carbo neutrality, and communicate on the	 Establish a joint steering committee of the real estate and construction sector for sustainable developmen that coordinates and organizes the carbon neutrality activities of the organizations and monitors progree in the sector The committee may convene 2-4 times per year 	ee Upd instr oper com that	ate the compensation ructions and encourage rators to favor pensation methods bind carbon dioxide
DETERMIN	Subject with members Create a shared set of rules with other operators in the sector for the life-cycle carbon footprint assess- ment in infrastructure projects Prepare a Carbon Neutral Built Environment action plan Assess the total emissions of the built environment at least every other year	Specify calculation instructions for the local carbon footprint Pilot the method, develop it further and deploy it Regularly assess the sector's emissions and the implementation o the action plan	f Revise the sector's action plan w necessary Defi	here ne carbon negativity
	Create a definition for a carbon neut	tral building, building use, infrastructur	e project, and area	
	Create a shared set real estate and cons	of rules for the use of compensation in struction sector	the	
ELOP	Develop and support cooperation ne Influence leading environmental certification systems to increase the importance of the life-cycle carbon footprint in the scoring of construction projects	etworks and exchange of information in Promote the introduction of incentives mentation of the low-carbon approach operators in the sector are aware of ex Encourage members to identify new de project opportunities and to apply for for execute such projects	the sector for the imple- . Make sure that isting incentives evelopment unding to	
DEV	Maintain a database of be carbon and circular econ- tions Help life-cycle specialists standardi methods to ensure that the calculati and results are independent of the c	est low- omy solu- ize their ion methods calculator	steer Light repair bon solutions. -carbon	
NGAGE	Advise and support your memb on how to communicate openly truthfully on their emissions. Es lish a dialog on false marketing root out green washing in the s- Engage companies in the sector to make low-carbon commitments, such as the Not Zoro Carbon Build	ers and stab- g and ector Advise and support your mem- bers in the creation and imple- mentation of a low-carbon action		
	ings Commitment Communicate with organizations in the the concrete actions mote the low-carbo plan). This helps to	plan your members, other e sector, and partners on s you are taking to pro- on approach (annual avoid overlapping work		
NFORMATION	Engage and encourage limited liabil companies to carry out energy reno increasing awareness and sharing b Examples of the climate impac provided to those living in detar Share best practices related to l gy efficiency, and circular econo	lity housing vations by best practices its of renovations are ched houses ow-carbon construction, ener- my with the sector		
=	Also introduce international exampl	es to the market		

PROVIDE

JONGLIFE



WORLD GREEN BUILDING COUNCIL