

Introducing cycling provisions in the recast of the Energy Performance of Buildings Directive (EPBD)

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A few words about the EPBD

- EPBD 1.0 (2010) Ignores mobility related issues
- EPBD 2.0 (2018 recast) Introduces few mobility requirements
- EPBD 3.0 Proposal for recast published by European Commission on 15 December 2021
- EPBD is the ONLY EU piece of legislation to possibly regulate bicycle infrastructure in and around buildings









What does the 2018 EPBD say on mobility?

E-cars

- At least one recharging point in new and renovated non-residential buildings with more than 10 parking spaces
- Ducting infrastructure for at least one in every five parking spaces in new and renovated residential buildings to enable the installation at a later stage of recharging points for electric vehicles

Other, including (electric) bicycles

- Recital 28: "...dedicated parking infrastructure for electric bicycles ..."
- Art. 8.8 "Member States shall consider the need for coherent policies for buildings, soft and green mobility and urban planning."







Transposing the 2018 EPBD into national law

- E-cars: 24/27
- Other Sustainable mobility options?
 - 3 countries (Cyprus, Italy and Malta) literally translated the non-binding sentence; a further 8 alluded to it
 - 16 ignored cycling or other forms of sustainable mobility altogether

Energy Performance of Buildings Directive						
Introduction						
The purpose of this factsheet is to analyse how the Energy Performance of Buildings Directive (2018/84/EU) was transposed by Member States into national law. We focus on Article 8 "Technical building systems, electromobility and smart readiness indicator" with a specific attention on sustainable mobility and cycling.	the inclusion of bloycle parking requirements in building regulations and urban planning public parking parking parcels as qualitative elements." The most commonly used method by Member States in rider to transpose Article 8 was to					
The legal basis	amend their existing national or regional building codes with an additional chapter focusing on "Electromobility".					
The first version of the Energy Performance of Buildings Directive (EPBD) 2010/31/EU did not contain any mobility-related measures. This	Transposition					
changed when a revised version was adopted in 2018 (2018/844/EU). However, while it introduced specific legal requirements for charging infrastructure for electric cars in new residential and non-residential buildings and	ECF's analysis of the 27 individual Member State transpositions shows a low implementation rate of Recital 28 and Article &6 into national legislation.					
those undergoing major renovations, references to cycling and wider mobility considerations were of a non-binding legal nature.	3 out of 27 Member States (Cyprus, Italy and Malta) opted for a literal transposition of Article 8.8.					
These are the relevant parts on cycling: Recial 28: "When applying the requirements for electromobility infrastructure provided for in the amendments to Directive 20103/t/EU, as set out in this Directive Attes should consider the need for holistic and coherent urban planning as well as the promotion of alternative, safe and sustainable modes of transport and their supporting infrastructure, for	The documentation submitted by 8 Member States (Austrix, Bedjum, Bulgaria, Lenmark, France, Greece, Lithuania and Romania) contains provisions which we could best classify as falling under Article 8.8 and Rectal 2.8 However, some of these provisions were in place prior to the revision, such as It was the case in Bulgaria and Demmark, and were not necessamily spurned by the EPBD.					
example through dedicated parking infrastructure for electric bicycles and for the vehicles of people of reduced mobility."	reference to cycling or other forms of "soft and green mobility" in their transposition.					
Article 8.8: "Member States shall consider the need for coherent policies for buildings, soft and green mobility and urban planning."	The situation is even less encouraging when it comes to electrical bicycle parking and charging infrastructure. The cases of Greece, Romania and Brussels Capital Region are the					
A guidance document ¹ issued by the European Commission in its advice to Member States on how to transpose the directive into national law builds on these references by recommending:	only examples of transposition that went into any elaboration in this respect. Unfortunately, their relevant articles are equally lacking in any clear mandates for the instalment of qualitatively and quantitatively prescribed					
"Member States without requirements or guidelines on bicycle parking should develop as a minimum, guidelines to local authorities on	charging points.					

Factsheet on national transpositions of the

TOFCF

¹ Commission Recommendation (EU) 2019/1019 of 7 June 2019 on building

ECF | FACTSHEET







EUROPEAN CYCLISTS' FEDERATION LIFE-CYCLE GHG emissions* per vehicle km

• Private bicycle: 17g CO2

• Private e-bike: 33.9g CO2

• Private e-car: 188g CO2



As a principle of fairness and common sense, if the EPBD is regulating infrastructure for ecars, so it must for (electric) bicycles!

Source: International Transport Forum (2019): Good to go. Assessing the Environmental Performance of New Mobility. <u>https://www.itf-oecd.org/sites/default/files/docs/environmental-performance-new-mobility.pdf</u>

* Life-cycle GHG emissions: Vehicle component, fuel component, infrastructure component





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- Introduce minimum requirements for bicycle parking.
- Introduce minimum requirements for e-bike charging infrastructure.
- Improve the social, environmental and mobility performance of buildings by better regulating requirements for car parking.







ECF gratefully acknowledges financial support from the cycling industry via Cycling Industries Europe

	Non-residential buildings		Residential buildings		
	New and renovated Buildings	Existing Buildings	New Buildings	Renovated Buildings	Existing
Bicycle	"At least one bicycle parking space for every	" At least one bicycle	"At least two bicyc	le parking spaces for every dwelling."	n/a
parking	car parking space."	parking space for every			
requirement		car parking space, by 1			
		January 2027."			
	Make more realistic to avoid MS resorting to	Too Good	Great!		
	opt out. Except for public and office	100 0000			
	buildings.				
Scope	- For buildings with more than five car	- For buildings with	- For buildings	with more than three parking spaces	
	parking spaces	more than twenty			
		parking spaces			
	include eBike charging parity with eCars.	eBikes and cargo bikes		e eBike charging parity with eCars. Plus, cargo	
	Plus, cargo bikes (1 in 10)		bikes		
Opt-out	"Member States may adjust requirements for	the number of bicycle		"Wheretwo bicycle parking spaceis not	
clause	parking spaces for specific categories of non-	residential buildings		feasible, Member States shall ensure as	
	where bicycles are typically less used as a me	ans of transport."		many bicycle parking spaces as	
	Make this 'opt-out' more difficult with comm	ittee sign-off and public		appropriate."	
consultation. Plus, compensatory actio		- ·		make this 'opt-out' more difficult.	
		_			
General				ouildings, soft and green mobility and urban pla	
provision				Min car parking to Max; Should support LA's v	vith
	Surves acknowledges financial support		acknowledges financial s · via Cycling Industries Et		com

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	where bicycles are typically less used as a me	ans of transport."		many bicycle parking spaces as		
	Make this 'opt-out' more difficult with committee sign-off and public			appropriate."		
	consultation. Plus, compensatory actions in o	•		make this 'opt-out' more difficult.		
		_				
General				ouildings, soft and green mobility and urban pla		
provision	MS to; introduce bike parking quality standards into building codes; consider moving from Min car parking to Max; Should support LA's with					
<u>ite</u> fro	SUNTS acknowledges financial support		acknowledges financial s / via Cycling Industries Et		om_	

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	where bicycles are typically less used as a me	ans of transport."		many bicycle parking spaces as	
	Make this 'opt-out' more difficult with committee si consultation. Plus, compensatory actions in other ca			appropriate."	
				make this 'opt-out' more difficult.	
	consultation. Flus, compensatory actions in o	ther categories.		make this opt-out more difficult.	
General			•	uildings, soft and green mobility and urban pla	-
provision					
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EUROPEAN CYCLISTS' FEDERATION NOn-residential buildings (all)

COM proposal

12 (1) and 12 (2)

- New/Renovated "At least one bicycle parking space for every car parking space."
- All "At least one bicycle parking space for every car parking space, by 1 January 2027."

	B=	0.7
ECF proposed amendment	car places	bike places
	1	2
Support for 1-2-1 but only for	2	4
office and public buildings	5	7
Sliding scale for all other non-	10	11
residential buildings	20	17
"The number of bicycle parking	50	31
spaces shall be twice the	Implaces Implaces Implaces Implaces	
number of car places raised to the power of 0.7 (or $2x^{0.7}$, where	200	82
x = car-parking spaces)."	500	155
	1000	252
	2000	410

A=

non-residential new/renovated with 5 parking spaces non-residential buildings (all other) with more than 20 parking spaces – we we

<u>non-residential buildings (all other) with more than 20 parking spaces –</u> we want to be more ambitious and use 5 parking spaces





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777

5000

	Non-residential buildings		Residential buildings		
	New and renovated Buildings	Existing Buildings	New Buildings	Renovated Buildings	Existing
Bicycle	"At least one bicycle parking space for every	" At least one bicycle	"At least two bicyc	cle parking spaces for every dwelling."	n/a
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	Make more realistic to avoid MS resorting to	Too Good	Great!		
	opt out. Except for public and office				
	buildings.				
Scope - For buildings with more than five car		- For buildings with	 For buildings with more than three parking spaces 		
	parking spaces	more than twenty			
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	include eBike charging parity with eCars.	eBikes and cargo bikes		e eBike charging parity with eCars. Plus, cargo	
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	Make this 'opt-out' more difficult with comm	ittee sign-off and public		appropriate."	
consultation. Plus, compensatory actions in				make this 'opt-out' more difficult.	
General	Member States shall consider the need for coherent ensure the coherence of policies for buildings, soft and green mobility and urban plann				
provision	MS to; introduce bike parking quality standar	ds into building codes; cor		Min car parking to Max; Should support LA's v	
E	Some set of the European Union		acknowledges financial si via Cycling Industries Et		m



Opt-out clauses – Non-Residential

COM proposal

12 (3)

 "Member States may adjust requirements for the number of bicycle parking spaces in accordance with paragraphs 1 and 2 for specific categories of non-residential buildings where bicycles are typically less used as a means of transport."

ECF proposed amendment

- After due assessment of the potential for bicycle parking by a committee of experts that includes experts on active mobility, and after taking into account the results of a public consultation, and contributions by relevant stakeholders, including cycling NGOs, then...etc.
- + explanation in national building renovation plans how to compensate...









E-bike charging and larger bikes COM proposal ECF proposed amendment

12 (1), 12 (2), 12 (4)

Not mentioned

Larger Dimensioned Vehicles

• For every 10 bicycle parking spaces there shall be one parking space designed for bicycles with larger dimensions than standard bicycles, such as cargo bikes, tricycles, and bicycles with trailers, with a minimum of one space

eBikes

• the installation of charging infrastructure for electric bicycles shall match that of electric vehicles

<u>non-residential new/renovated with 5 parking spaces</u> = installation of at least one recharging point + installation of pre-cabling for every parking space <u>non-residential buildings (all other) with more than twenty five parking spaces</u> = at least one recharging point for every ten parking spaces + pre-cabling for at least one in two parking spaces by 1 January 2033 <u>Residential Buildings with three parking spaces</u> = pre-cabling for every parking space







	Non-residential buildings		Residential buildings		
	New and renovated Buildings	Existing Buildings	New Buildings	Renovated Buildings	Existing
Bicycle parking requirement	"At least one bicycle parking space for every car parking space." Make more realistic to avoid MS resorting to opt out. Except for public and office	" At least one bicycle parking space for every car parking space, by 1 January 2027." Too Good	"At least two bicyc Great!	cle parking spaces for every dwelling."	n/a
Scope	 buildings. For buildings with more than five car parking spaces include eBike charging parity with eCars. Plus, cargo bikes (1 in 10) 	 For buildings with more than twenty parking spaces eBikes and cargo bikes 	 For buildings with more than three parking spaces we want to include eBike charging parity with eCars. Plus, cargo bikes 		
Opt-out clause	"Member States may adjust requirements for the number of bicycle parking spaces for specific categories of non-residential buildings where bicycles are typically less used as a means of transport." Make this 'opt-out' more difficult with committee sign-off and public consultation. Plus, compensatory actions in other categories.			"Wheretwo bicycle parking spaceis not feasible, Member States shall ensure as many bicycle parking spaces as appropriate." make this 'opt-out' more difficult.	
General provision			-	Duildings, soft and green mobility and urban pla Min car parking to Max; Should support LA's v	-

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National Renovation Plans

COM proposal

3 (1)

• The roadmap referred to in point (b) shall include national targets for 2030, 2040 and 2050...specific timelines for buildings to achieve higher energy performance classes...and etc...

ECF proposed amendment

- Support this and add;
- The roadmap referred to in point (b) shall also set out national targets for constructing bicycle parking spaces, developed in line with the relevant provisions of this Directive









Wider mobility and urban planning considerations COM proposal ECF proposed amendment

12 (9)

- "Member States shall consider the need for coherent ensure the coherence of policies for buildings, soft and green mobility and urban planning."
- Support this and add following criteria:
- Member States shall develop/update quality bicycle parking standards to existing building codes addressing
 - General accessibility requirements
 - Space requirements (m2/ standard bicycle and bicycle with larger dimensions)
 - Quality bike racks
 - Charging installations
- Member States shall re-evaluate car parking norms and consider amendments to current minimum norms
- Member States should support local authorities in developing SUMP integrating building policy







To sum up

- Residential buildings: defend Commission two bicycle parking spaces per dwelling
- Non-residential buildings: tweak Commission proposal to make it easier for MS to implement?
- Opt-out clauses: limit them as much as possible, create a bit more friction here
- E-bike charging: Parity with eCars; 10 % for non-residential
- Wider mobility considerations:
 - Quality bicycle parking standards
 - Car parking norms
 - Support local authorities to develop SUMP









Opinions? How to improve?

- Some MEPs, Member State, Commission staff have asked if we have suggestions on how to change this without reference to car parking
- Other suggestions to include bicycle parking in the EPBD?
 - Area? Employees? Workers? Cycling infra?...
- Does this relate to real life? (remember it applies to all EU buildings)
- What else should we ask for inclusion in national renovation plans?





