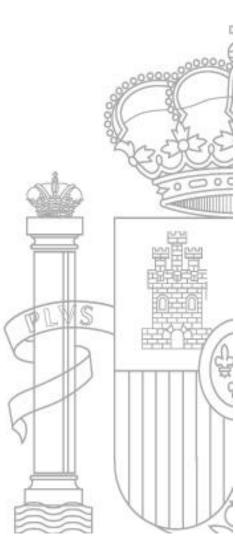
Challenges and Opportunities **EPBD**



2023 July 11th



1. EPBD Amendment Status

MAIN ISSUES:

Starting point: 40% Energy consumed in buildings

Target: -60% emission reductions in the building sector (2030/2015)

Means: MEPS, EPC (scales), Climate Zones, Fossil fuels, ZEB, nZEB, Optimal Cost, Exemptions (Single family houses), Renewable onsite,

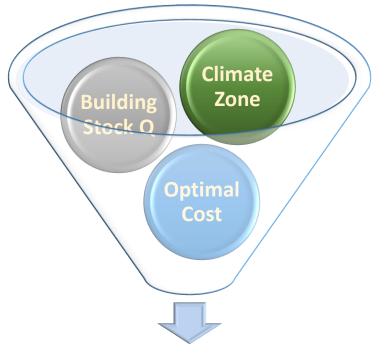
Other issues: IAQ In relation to HACV - Ventilation

- ✓ European Commission Proposal 15.12.2021
- ✓ European Council Proposal 25.10.2022
- ✓ European Parliament 09.02.2023
- ✓ Trilogues

Ongoing (expected to close in the upcoming months)



2. Spanish position



Cost-Efficient Energy Efficiency

Energy	Кое	over	
consumption	2019	2020	average
Bulgaria	5,867	6,503	-35%
Germany	11,303	12,234	24%
Luxembourg	12,397	14,561	42%
Netherlands	7,477	7,485	-21%
Spain	3,483	3,746	-62%
EU average	9,4		

Source: Odyssee-Mure



2. Spanish position

Tabla a-Anejo B. Zonas climáticas

			-					
	AlStud sobre el nivel del mar (h) 51 101 111 201 251 301 351 401 451 501 551 601 651 701 751 801 851 901 951 10011051							
	5	101 111	201 251 301	351 401 45	501 551 60	1 651 701 751	801 851 901 9	51 10011051251
Provincia		00 150 200	250 300 350	400 450 50	550 600 65	0 700 750 800	850 900 950 1	00010501250 300 1301
			m m m					m m m m
Albacete		C3				D3		E1
Alicante/Alacant		84	_	C	1		D	
Almeria	A4	B4	B3		C3	_	_	D3
Araba/Alava			D1				E1	
Asturias	C1		D1				E1	
Ávila			D2		_	D1		E1
Badajoz		C4	LAL.	C3	_		D3	
Balears, Illes		B3		00		C3	23	
Barcelona	_	C2		D2 D1				E1
Bizkala		C1		02 01		D1		6-1
Burgos	_	91	D1				E1	
Cáceres			C4		-		D3	E1
Cádiz	A3		B3		C3	C2		D2
Cantabria	C1	_	60	D1		02	E1	
Castellón/Castelló	B3		C3		D3	D		E1
Ceuta	63		60		B3	0	2	EI
	_			<i>(</i> 1)			0.0	
Ciudad Real Córdoba	B4	C4		C:			D3 D3	
Coruña, A	C					D1	00	
	- U	1		0.0		01	60	54
Cuenca				D3			D2	E1
Gipuzkoa	C2	D1		12			E1 E1	
Girona		B4				C3		0.0 F.C
Granada	A4	В		C4		63		D3 E1
Guadalajara				D3				02 E1
Huelva	A4	B4	B3		C3			D3
Huesca	c		D3		D2		E	
Jaén	_	B4			C4		D3	E1
León					E1			
Lleida	C3	_		3			E1	
Lugo	_		D1				E1	
Madrid			03			D3		02 E1
Málaga	A3	B	3		C3		D	3
Melilla					A3			
Murcia	B3	_	C3		_		D3	
Navarra	C2		D2	D			E1	
Ourense	C3		C2		D2			E1
Palencia				D1				E1
Palmas, Las		α3			A2		B2	C2
Pontevedra		C1				D1		
Rioja, La	C	2		D2			E	
Salamanca				D2				E1
Santa Cruz de Tenerife		a 3			A2		82	C2
Segovia)2			E1
Sevila	B	4				C4		
Soria			D	2		D1		E1
Tarragona	B3		C3				D3	
Teruel		C3		C	2	D2		E1
Toledo		(04				D3	
Valencia/València	B3		C3			D2		E1
Valladolid				D2				E1
Zamora				D2				E1
Zaragoza	C	3		D3			E1	
					_			







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2. Spanish position

Average High and Low Temperature 🔗 Link 🛓 Download Palencia Nice Budapest 30°C--30°C 25°C 25°C 20°C -20°C Nice 15°C -15°C 10°C -10°C Palencia 5°C-5°C 0°C-0°C Budapest -5°C -5°C Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan

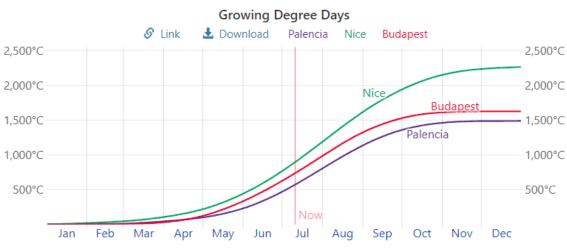
The daily average high and low air temperature at 2 meters above the ground.



According to EC EPBD proposal:

Palencia: Nice: Budapest:

Mediterranean Oceanic Contiental



The average growing degree days accumulated over the course of the year, where growing degree days are defined as the integral of warmth above a base temperature (10°C in this case).

Source: weatherspark.com



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3. Conclusions

- ✓ Need to be ambitious
- ✓ Objectives according to real conditions
 - Real climatic zones
 - Building stock saving potential
 - Optimal costs
- ✓ Cost-effectiveness
- ✓ Sensitivity to energy poverty (and all the citizens)



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Thank you!



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