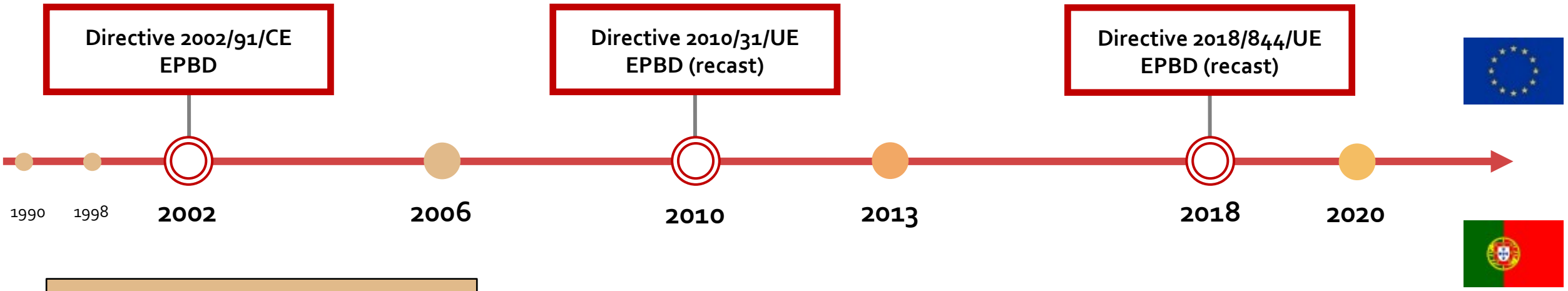
Energy certification of public buildings towards the nZEB

26 October 2022

Nuno Baptista

Regulation background – nzeb concept



Decree-Law 78/2006 – SCE

Decree-Law 79/2006 – RSECE

Decree-Law 80/2006 – RCCTE

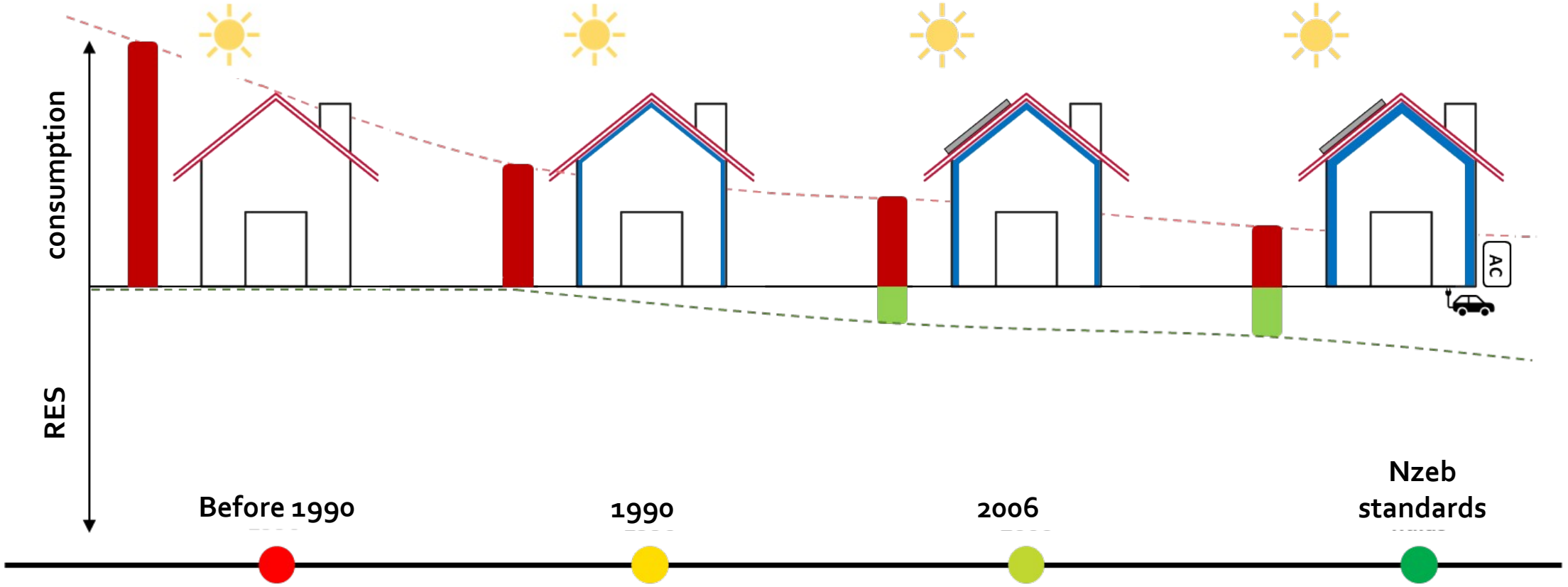
Decree-Law 118/2013

Updated Energy Certification system
Updates Requirements for Residential and Non-Residential Buildings

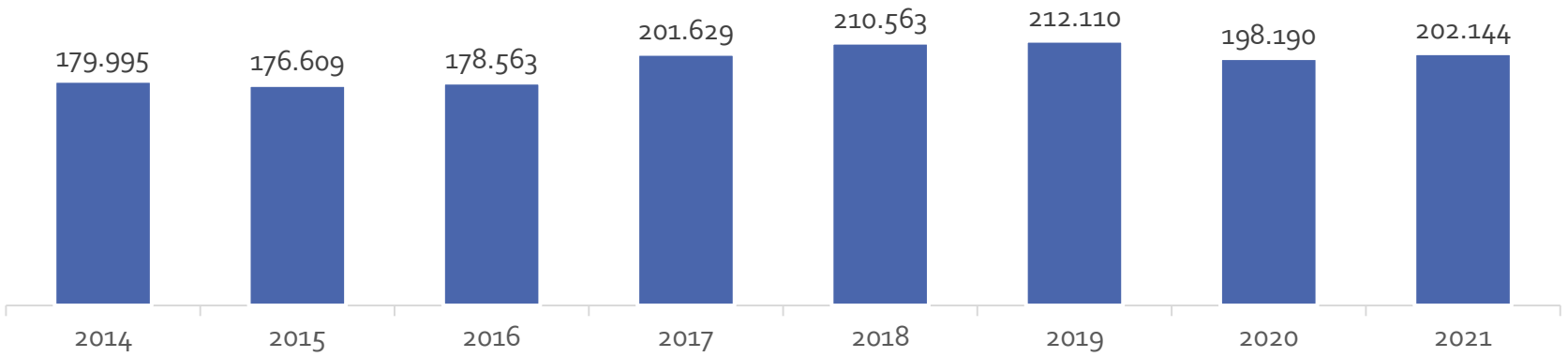
Decree-Law 101-D/2020

Updated regulation for building construction and renvoation, as well as Energy Certification System

Regulation background – nzeb concept

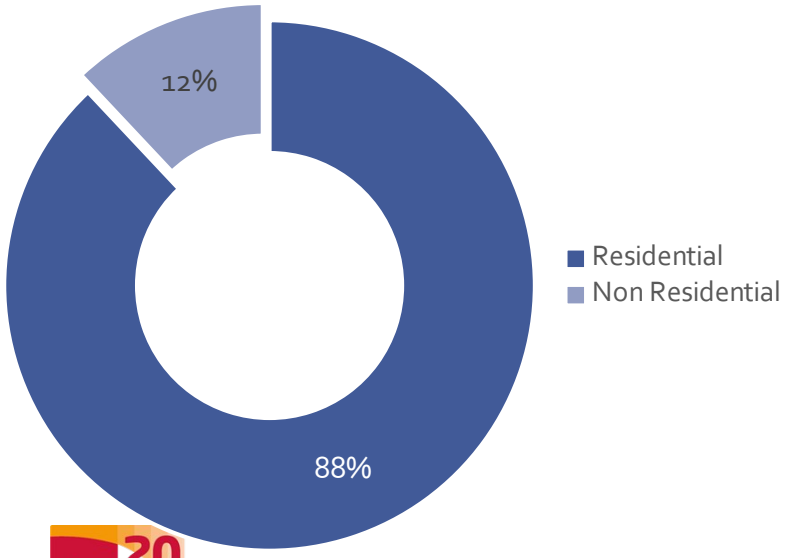


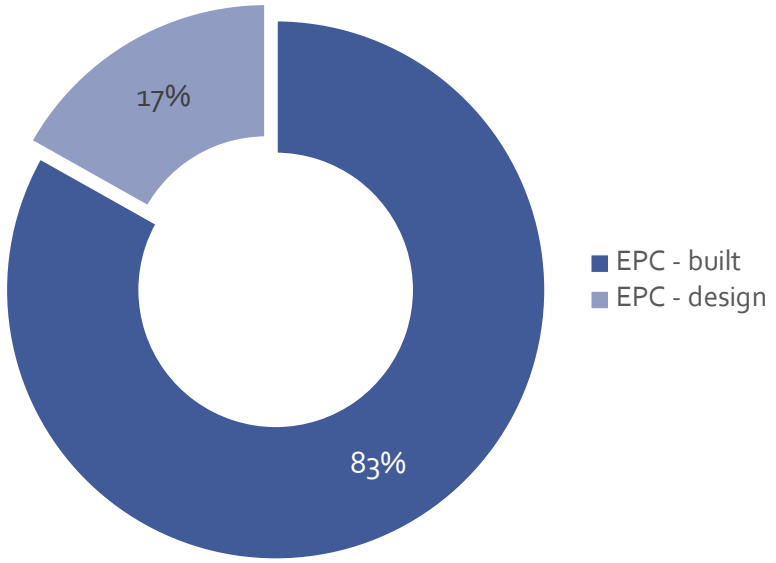
EPC database

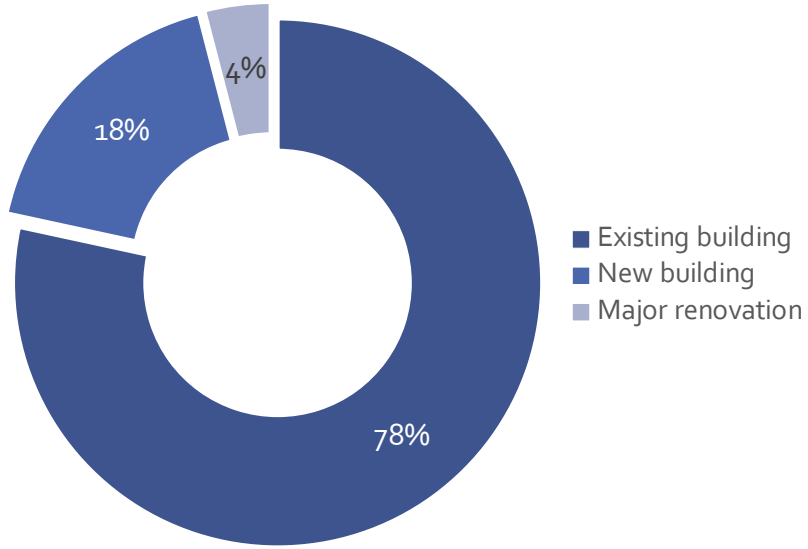


~1.600.000

Registered EPC (2014-2021)







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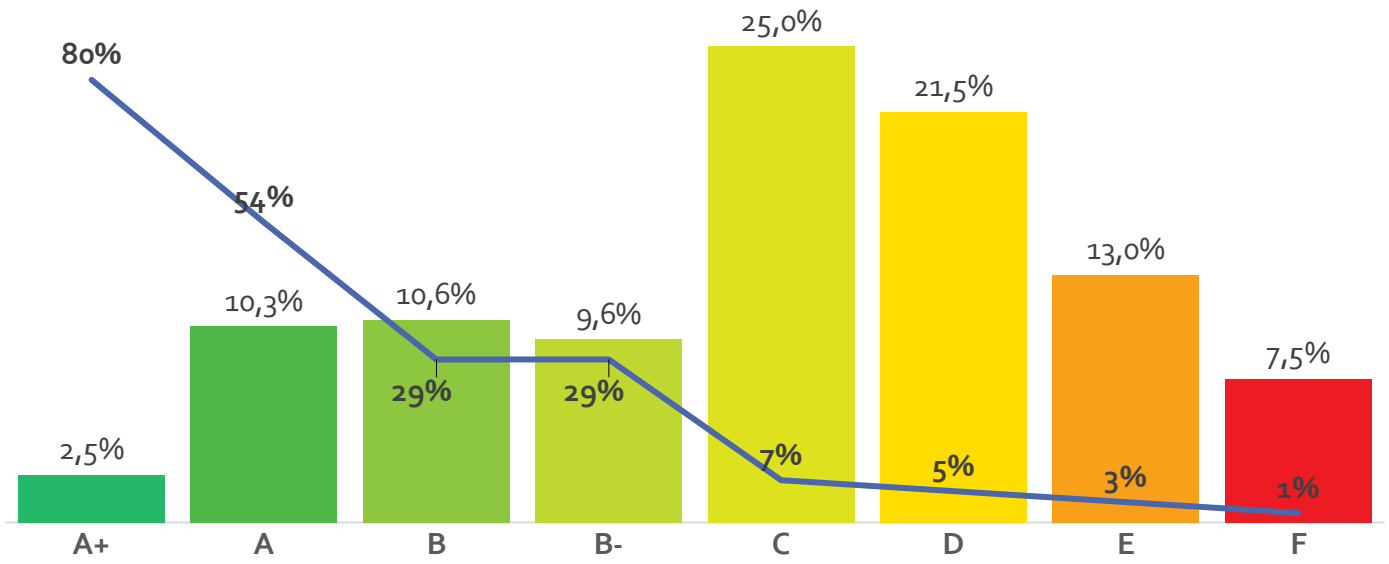
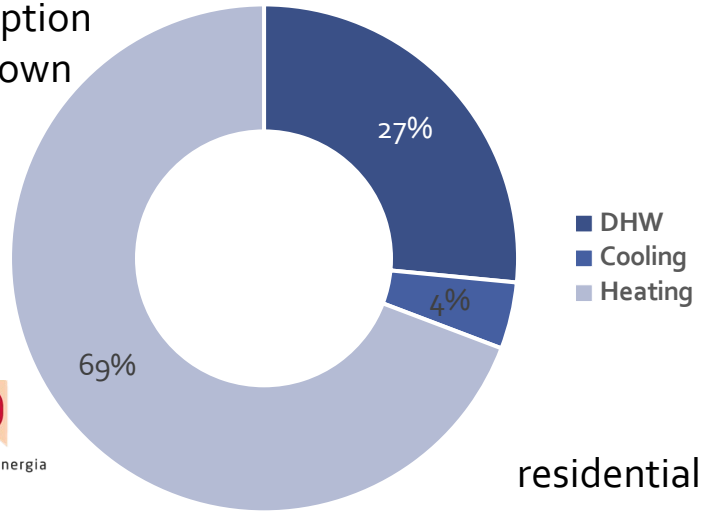
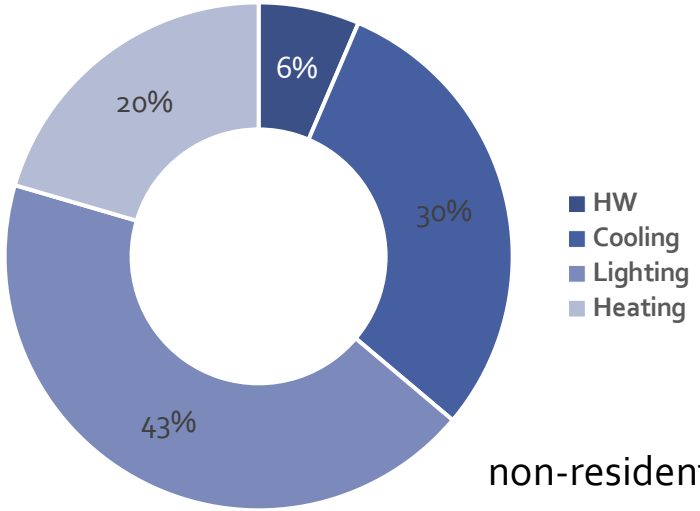
EPC database



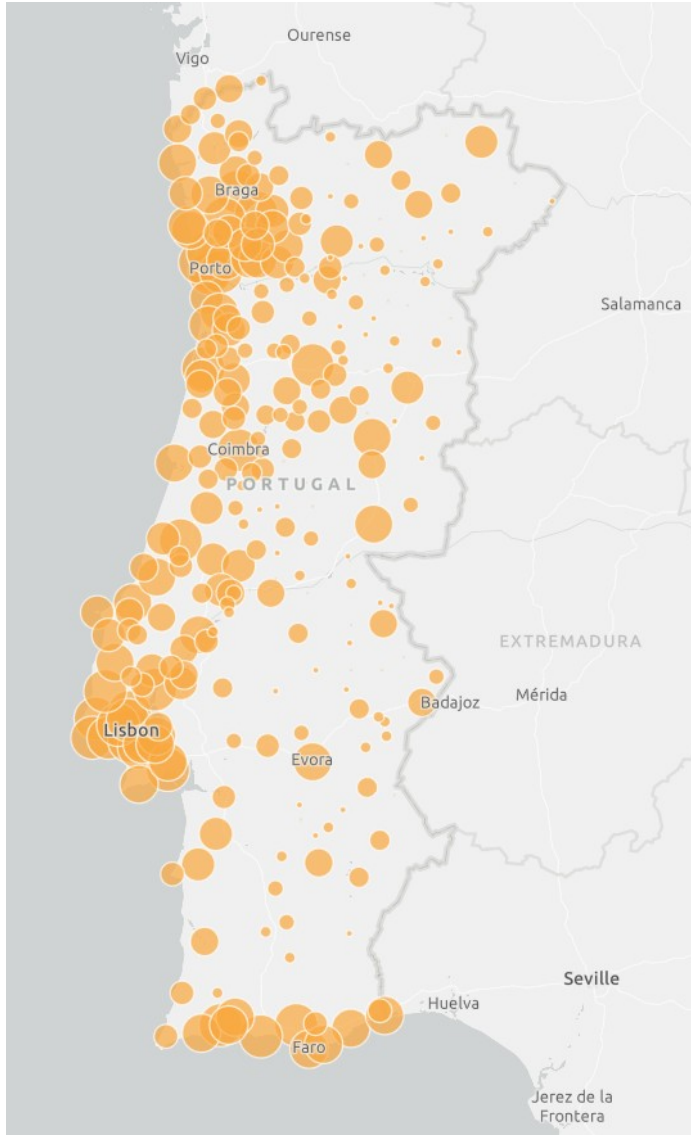
Consumption breakdown



residential



non-residential



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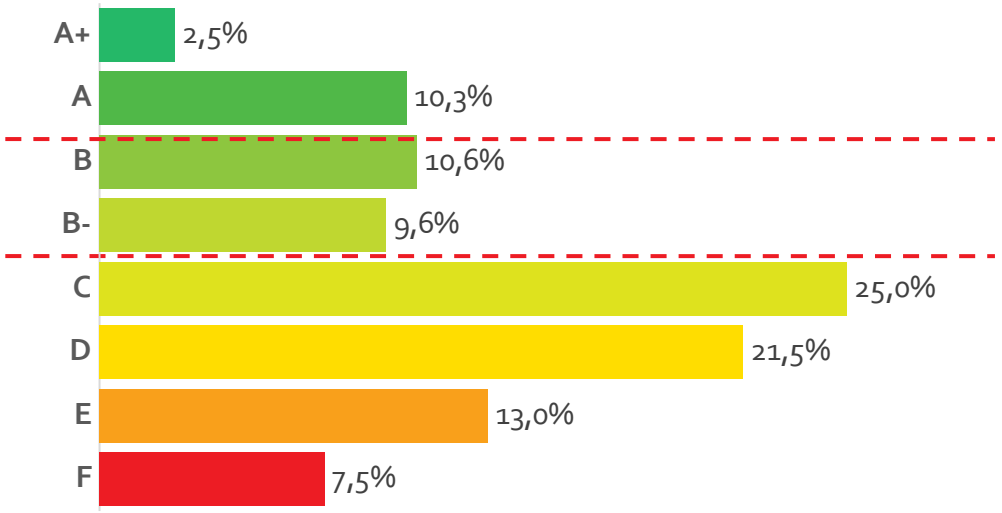
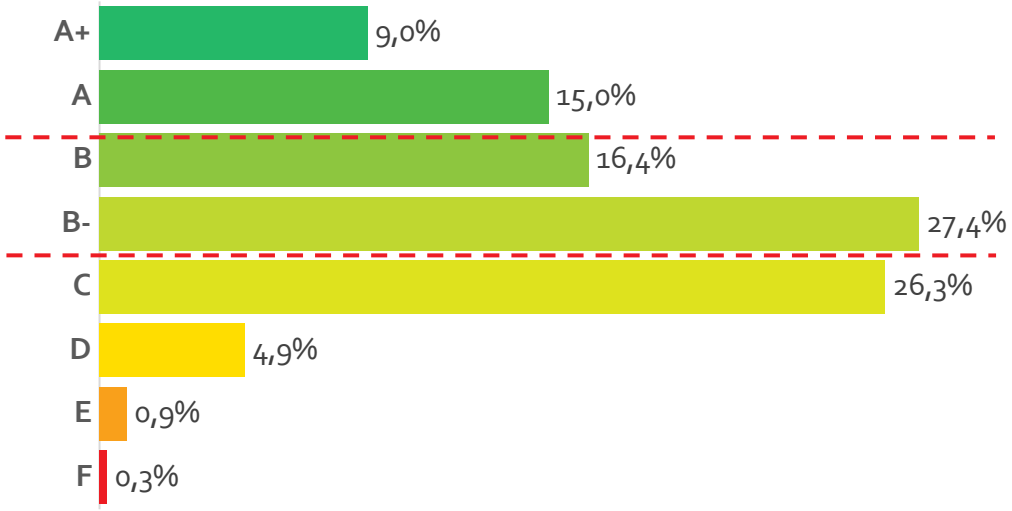
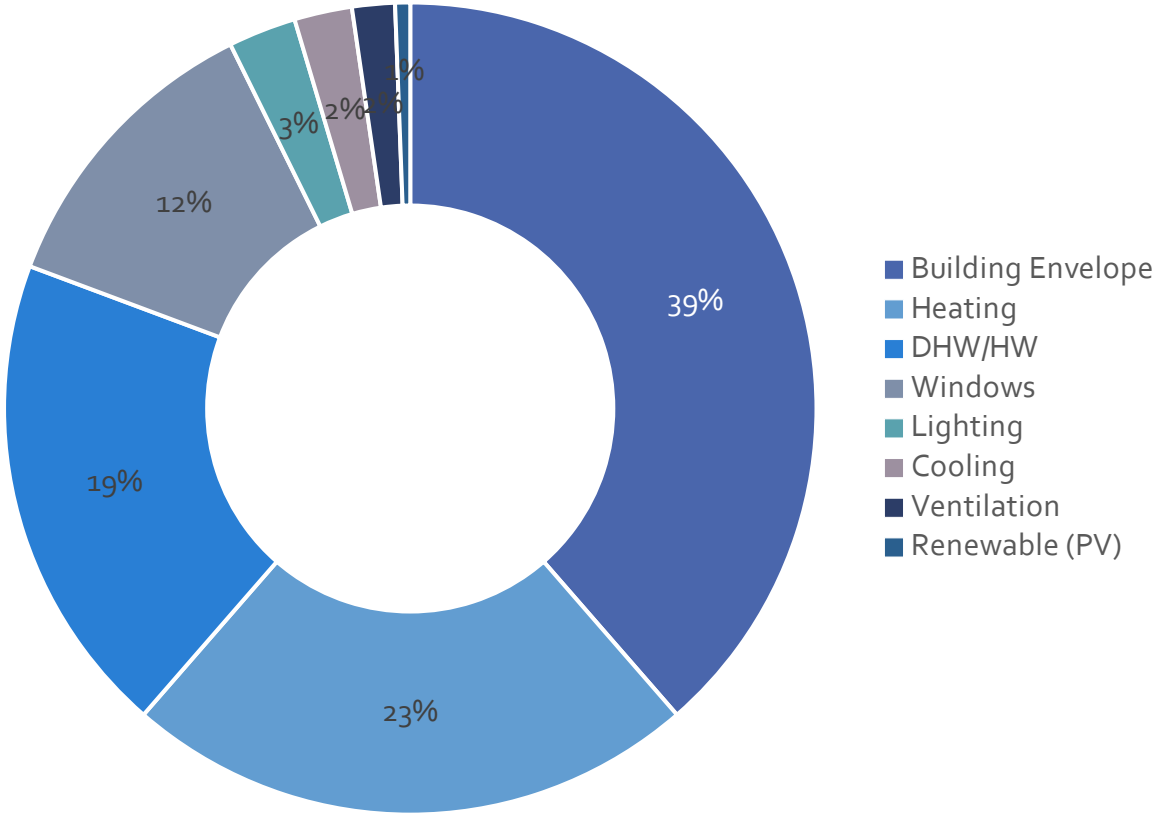
How to improve buildings

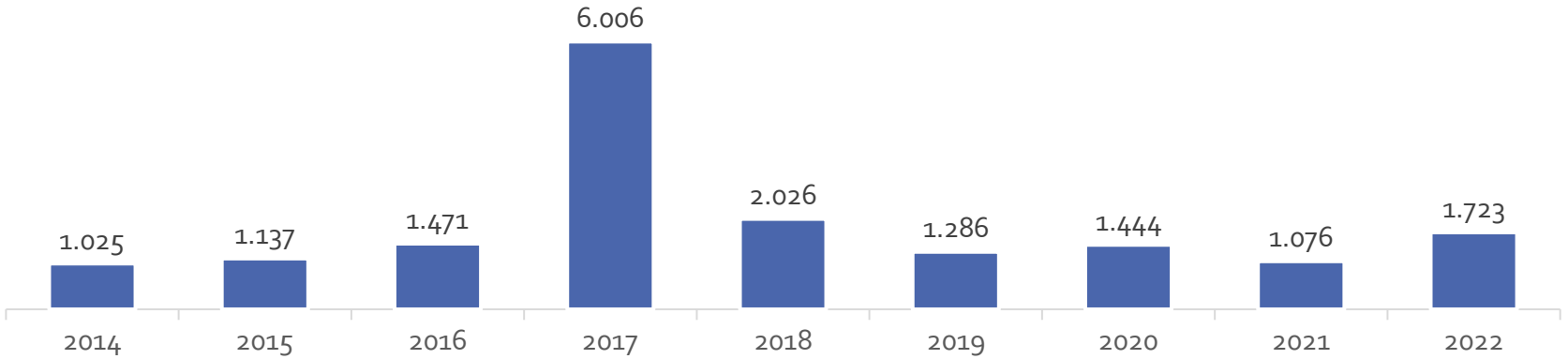






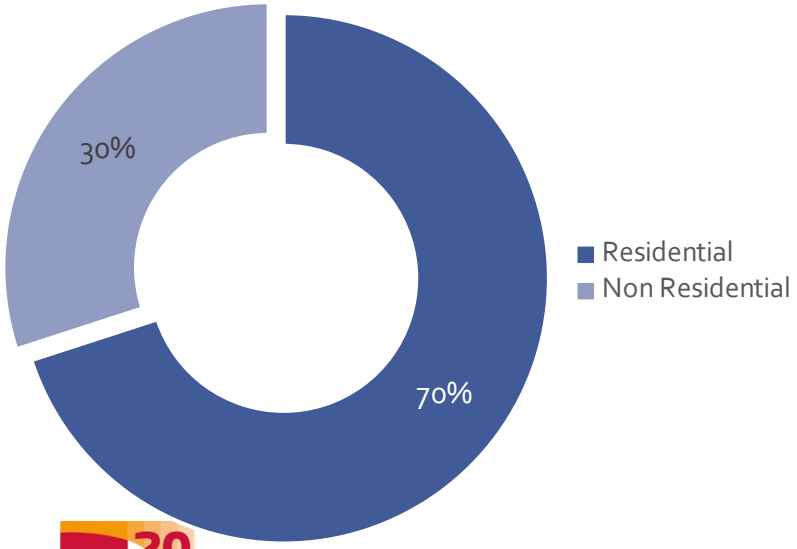
Investments (total)	6.600€	77.000€
Savings (year)	900€	14.200€

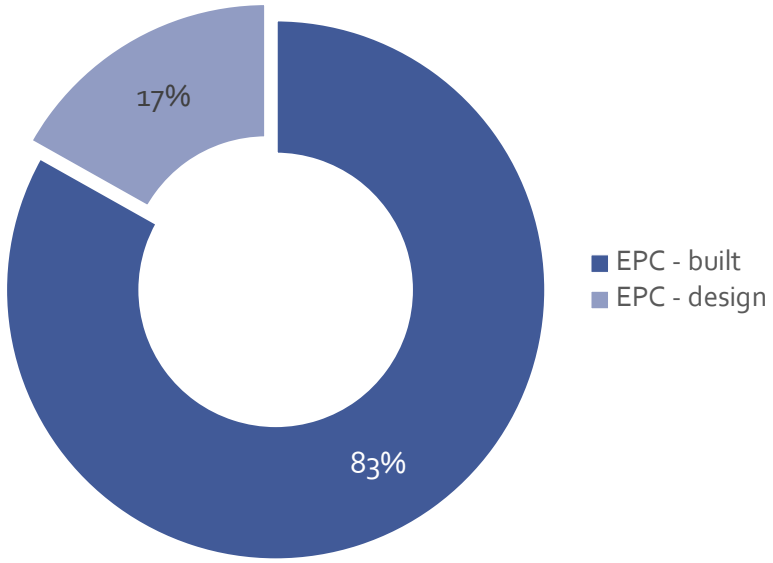
EPC for public buildings and nzeb

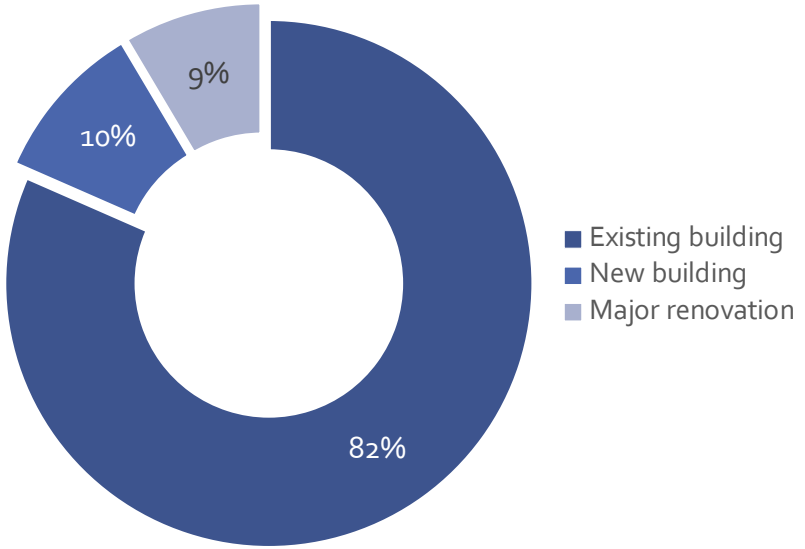


~17.200

Registered EPC (2014-2022)







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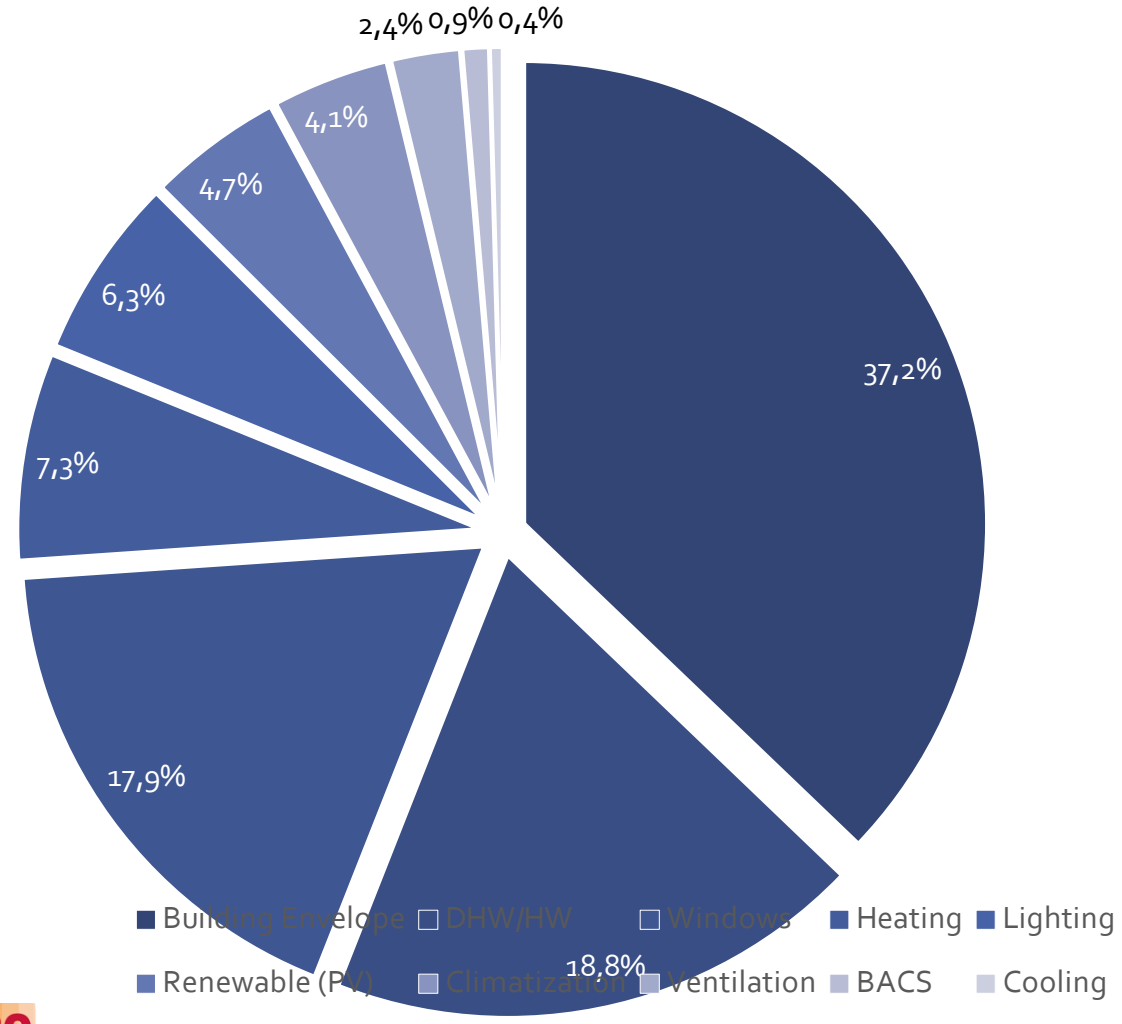
EPC for public buildings and nzeb

	Central		Local		Private occupied by public entity	
Registered EPC after 01.07.2021	73 44% are NZEB	191 9% are NZEB	1181 45% are NZEB	290 35% are NZEB	97 67% are NZEB	568 4% are NZEB
Area (sqm/m²)	8,797 21% are from NZEB	994,021 12% are from NZEB	70,866 44% are from NZEB	562,623 20% are from NZEB	7,497 67% are from NZEB	338,826 8% are from NZEB

...and how to improve them



Type of action	Average investment
Climatization	71.000 €
Renewable (PV)	70.000€
BACS	50.000€
Lighting	20.000€
Roof insulation	9.500€
Windows	9.500€
Ventilation	5.000€
Hot water production	5.000€
Wall insulation	4.000€
Heating systems	3.000€
Cooling systems	2.500€
Floor insulation	**1.500€**

Investments (total) **73.000.000€**

Savings (year) **747.000€**

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Funding and support schemes for renovation

	Flagship	PRR	M€
1 Power up	The frontloading of future-proof clean technologies and acceleration of the development and use of renewables	Hidrogénio e gases renováveis	186
		Descarbonização da indústria, bioeconomia e economia circular	465
2 Renovate	The improvement of energy efficiency of public and private buildings	Eficiência energética em edifícios	609
3 Recharge and Refuel	The promotion of future-proof clean technologies to accelerate the use of sustainable, accessible and smart transport, charging and refuelling stations and extension of public transport	Mobilidade sustentável	1.282
4 Connect	The fast rollout of rapid boradband services to all regions and households, including fiber and 5G networks	5G disponível em Portugal em 2021	Inv. Privado
5 Modernise	The digitalisation of public administration and services, including judicial and healthcare systems	Digitalização da AP	1.815
6 Scale Up	The increase in European industrial data cloud capacities and the development of the most powerful, cutting edge, and sustainable processors	Rede Nacional de Digital Innovation Hubs (IA, Cibersegurança e SuperComputação) e laboratórios de experimentação e incorporação de tecnologia	138
7 Reskill and Upskill	The adaptation of education systems to support digital skills and educational and vocational training for all ages	Educação digital	710
		Modernização do ensino profissional	716
		Formação ao longo da vida (reconversão e qualificação)	286

Resiliência | Transição Climática

Transição Digital | REP 2019 | 2020

3 CASA CONFORTO CLIMA

PRR

FUNDO AMBIENTAL

Per application 5.000.000€

Total Funding ~~40.000.000€~~

200.000.000€

Thank you!
Obrigado!

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www.sce.pt