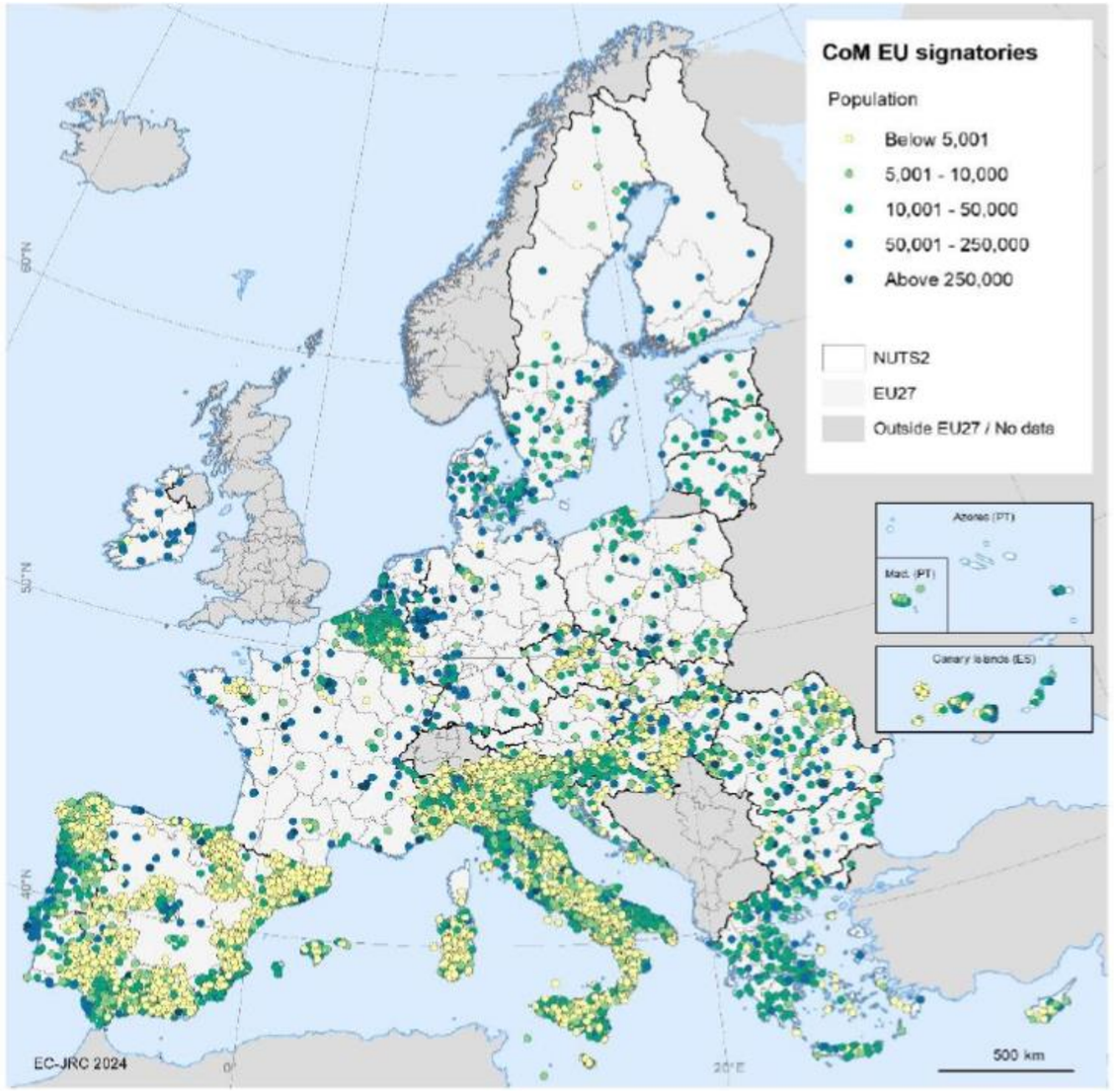
Covenant of Mayors
for Climate & Energy

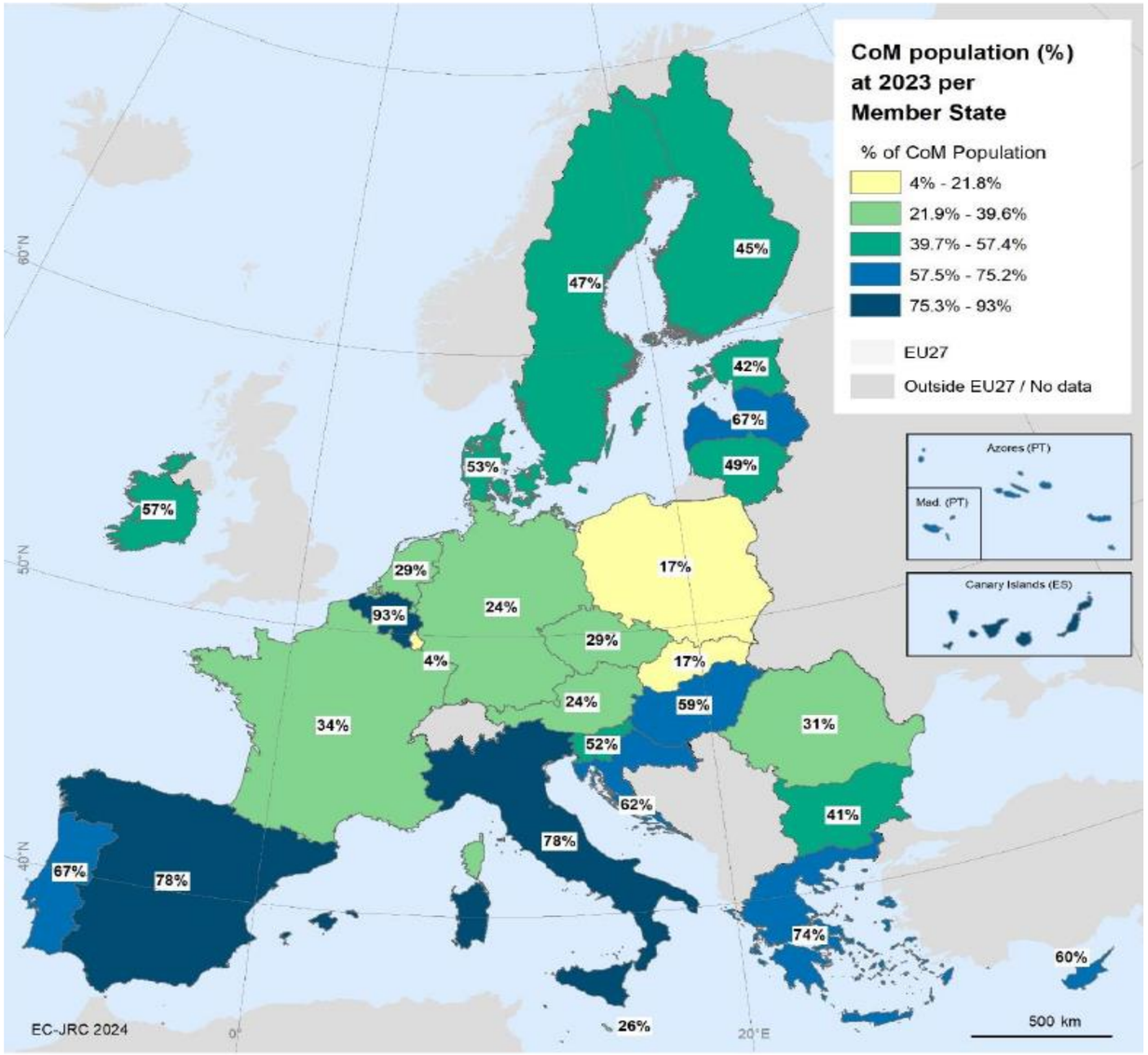
Pacto de las Alcadías para el Clima y la Energía

Miguel Morcillo – Tafalla, 21.11.2024

El Pacto de las Alcaldías en Europa



El Pacto de las Alcaldías en Europa



El Pacto de las Alcaldías en cifras

11 981
Signatarios

289
Partidarios

210
Coordinadores

165.000
Acciones de mejores prácticas

7894
Planes de acción presentados

El Pacto en España

- 3.025 firmantes del Pacto de las Alcaldías
- 2.512 PACES aprobados
- 1.252 Informes de seguimiento entregados

- 96 Coordinadores Territoriales y Entidades de Soporte que apoyan a los muncipios

Governanza multinivel

- El Pacto de las Alcaldías es un modelo de éxito en la llamada Governanza multinivel, donde CCAA, diputaciones y municipios trabajan conjuntamente para alcanzar objetivos comunes

- Los reciente catástrofe climática de Valencia muestra que la governanza multinivel no funciona siempre, pero evidencia que es absolutamente necesaria y fundamental para proteger a la población de los efectos del cambio climático

El objetivo de pobreza energética

- Un **compromiso político** tal y como se describe en el texto de compromiso del Pacto

Energy Poverty		
Goal	**Target year**	**Base year**
Tackle energy poverty to ensure a just transition by [select target year]	[Drop-Down]	[Drop-Down]

- ...apoyado por la posibilidad de elegir otros indicadores para la cuantificación de sus objetivos

Indicadores de pobreza energética

ANNEX - Indicators for Energy Poverty

ⓘ This annex serves as a source of inspiration only. None of these indicators are compulsory, but rather illustrative examples.

Area	Priority level	Related indicators	Unit	Description
Climate	Monitoring indicator	Frequency of heat waves	Average per monthly/year	Frequency of heat waves per month in a year
	Monitoring indicator	Frequency of cold waves	Average per monthly/year	Frequency of cold waves per month in a year
	Monitoring indicator	Number of heating degree days per year	Number of HDD and CDD /year	Heating degree day is a measurement designed to quantify the demand for energy needed to heat a building, it is based on the outside temperature where heating is needed
	Monitoring indicator	Number of cooling degree days per year	Number of HDD and CDD /year	Cooling degree day is a measurement designed to quantify the demand for energy needed to cool a building, it is based on the outside temperature where cooling is needed
Socio-economic	Monitoring indicator	Percentage of populaton or housholds spending up to XX % their income on energy services	[%]	Share of population / housholds spending more thant an specific percentange of their incomes on energy services putting them in an situation of energy poverty
	Monitoring indicator	Vulnerable households	[%]	**The here provided description is only an example, municipalities can write here their own description of vulenarable housholds / population** Households with lonely parents, parents with more than 3 childrens, families with low incomes, housholds reciving social soport, families with low level of education housholds out total number of hausholds
	Monitoring indicator	Arrears on utility bills	[%]	Share of (sub-) population having arrears on utility bills, based on question "In the last twelve months, has the household been in arrears, i.e. has been unable to pay on time due to financial difficultise for utility bills (heating, electricity, gas, water, etc.) for the main dwelling?"
	Related indicator	Average price of electricity	[€]	Average price in [€] of the consummed electricity kwh in the municipal housholds
	Related indicator	Average price of gas	[€]	Average price in [€] of the consummed gas kwh in the municipal housholds
	Related indicator	Energy related expendture / local GDP	[%]	Relationship between the yearly energy cost the housholds and the local GDP, percentual average of the local GDP destinated to the energy
	Monitoring indicator	High share of energy expenditure in income (2M)	[%]	The 2M indicator presents the proportion of households whose share of energy expenditure in income is more than twice the national median share. Note: where income distributions are more equal, variance in energy expenditure translates to higher 2M shares. High variance in energy/income shares can occur due to structural differences in energy expenditure between household groups, as well as in situations where energy is often, but not exclusively, included in rent.
	Related indicator	Citizens under poverty threshold / number of citizens	[%]	Percentage of the local population suffering from poverty, persons and families under the limit of incomes considering the family size
	Related indicator	At-risk-of-poverty rate	[%]	People at risk of poverty or social exclusion (% of population). The at-risk-of-poverty rate is the share of people with an equivalised disposable income (after social transfer) below the at-risk-of-poverty threshold, which is set at 60 % of the national median equivalised disposable income after social transfers.

Evaluación y monitoreamiento

Energy Poverty Assessment

Macro-areas	Elements	Used indicator(s)	Unit	Households /Persons	Base Year	Current level	Use for monitoring	Target level
Climate	Heat and cold	Frequency of heat waves	Days per year		[Drop-down]	[Drop-down]	☐	[Drop-down]
		Frequency of cold waves	Days per year		[Drop-down]	[Drop-down]	☐	[Drop-down]
		Number of heating degree days per year	HDD + CDD / year		[Drop-down]	[Drop-down]	☐	[Drop-down]
		Number of cooling degree days per year	HDD + CDD / year		[Drop-down]	[Drop-down]	☐	[Drop-down]

Macro-areas	Elements	Used indicator(s)	Unit			Current level		Target level change
Facilities	Housing	F+G+H band (EPC) dwelling/total number of dwelling	[%]		[Drop-down]	[Drop-down]	☐	[Drop-down]
		Energy consumption (electricity + heating) per capita / national energy consumption (electricity + heating) per capita	[%]		[Drop-down]	[Drop-down]	☐	[Drop-down]
		Share of buildings renovated per year	[%]		[Drop-down]	[Drop-down]	☐	[Drop-down]
		Share of households or persons with presence of leak, damp, rot in their dwelling / total households or persons	[%]	[Drop-down]	[Drop-down]	[Drop-down]	☐	[Drop-down]
		Percentage of households or persons within the municipality experiencing heating discomfort / total households or population	[%]	[Drop-down]	[Drop-down]	[Drop-down]	☐	[Drop-down]
		Percentage of households or persons within the municipality experiencing cooling discomfort / total households or population	[%]	[Drop-down]	[Drop-down]	[Drop-down]	☐	[Drop-down]
		Households or persons connected to the electricity and gas grid / total households or persons	[%]	[Drop-down]	[Drop-down]	[Drop-down]	☐	[Drop-down]
	Public transport	Population or households not having access to essential services within 1 h by walking, cycling or public transport / total population or households	[%]	[Drop-down]	[Drop-down]	[Drop-down]	☐	[Drop-down]
		Persons or households living more than one km from nearest public transport station / number of persons or households	[%]	[Drop-down]	[Drop-down]	[Drop-down]	☐	[Drop-down]
Socio - economic		Percentage of populaton or housholds spending up to XX % their income on energy services	[%]	NE	[Drop-down]	[Drop-down]	☐	[Drop-down]
		Vulnerable households or persons / total households or persons	[%]	[Drop-down]	[Drop-down]	[Drop-down]	☐	[Drop-down]
		Arrears on utility bills / total population or households	[%]	[Drop-down]	[Drop-down]	[Drop-down]	☐	[Drop-down]
		Inability to keep home adequately warm	[%]	[Drop-down]	[Drop-down]	[Drop-down]	☐	[Drop-down]
		High share of energy expenditure in income (2M)	[%]		[Drop-down]	[Drop-down]	☐	[Drop-down]
Framework elements		Existence of energy poverty strategy / specific measures related energy poverty	Yes / No		[Drop-down]	[Drop-down]	☐	[Drop-down]
		Existing rent regulation	Yes / No		[Drop-down]	[Drop-down]	☐	[Drop-down]
		Awareness-raising campaigns targeting targeting vulnerable households	Yes / No		[Drop-down]	[Drop-down]	☐	[Drop-down]
		Engagement and cooperation with stakeholders	Yes / No		[Drop-down]	[Drop-down]	☐	[Drop-down]

Centro de Asesoramiento sobre Pobreza Energética

- El Centro de Asesoramiento sobre Pobreza Energética es una iniciativa Europea que colabora directamente con el Pacto de las Alcaldías con el fin de apoyar a los municipios en todo lo relacionado con pobreza energética, promoviendo experiencias innovadoras y el trabajo en red

  https://energy-poverty.ec.europa.eu/

- Muchos otros proyectos europeos están ofreciendo en etos momentos asesoramiento y formación en temas relacionados con la pobreza energética

Simplificación del PACES

- La parte del PACES relacionada con los consumos energéticos y las emisiones va a ser muy simplificada

Sector	FINAL ENERGY CONSUMPTION [MWh]																
			Fossil fuels								Renewable energies						
	Electricity	District heating and cooling	Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biogas	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal	Total
BUILDINGS, EQUIPMENT/FACILITIES, INDUSTRY (STATIONARY ENERGY)	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
TRANSPORT	NE	NE	NE	NE	NE	NE	NE			NE	NE	NE	NE	NE	NE	NE	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Local electricity and heat/cold plants	Renewable energy produced [MWh]	Emission factor	Unit	CO_2 / CO_2 eq. emissions [t]	Comments
Wind (electricity)	NE			#WERT!	
Hydroelectric (electricity)	NE			#WERT!	
Photovoltaics (electricity)	NE			#WERT!	
Geothermal (electricity)	NE			#WERT!	
Combined heat and power (electricity)	NE			#WERT!	
Combined heat and power (heat and cold)	NE			#WERT!	
District heating (heat and cold)	NE			#WERT!	
Other	NE			#WERT!	
TOTAL	0			#WERT!	

Energy communities

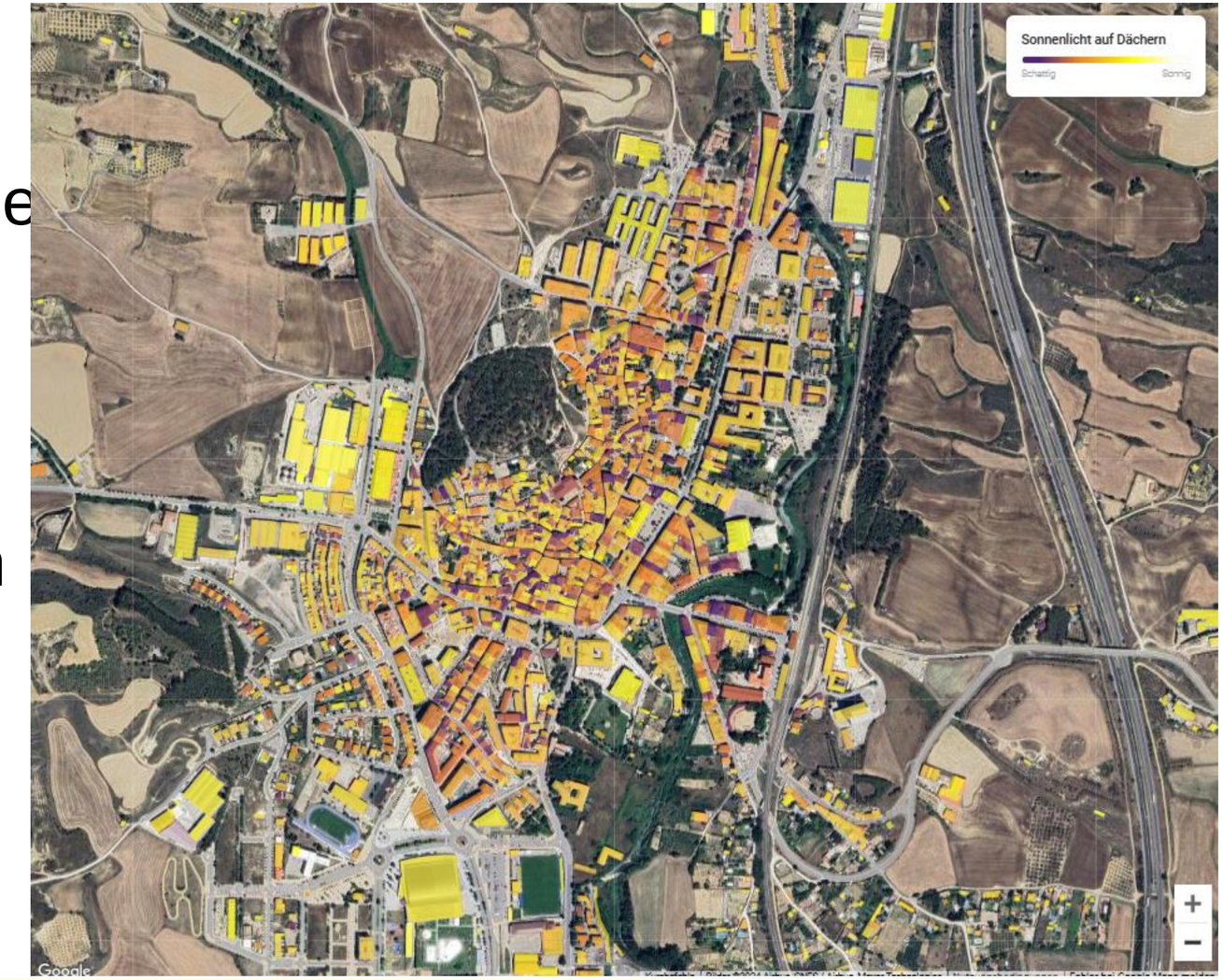
Have you established energy communities? ☐ Yes ☐ No ☐ Do not know

If no, what are the reasons?

If yes, how many people are involved?

Disponibilidad de datos satélite a nivel local

- Estamos colaborando con la Agencia Espacial Europea y Google con el fin de proporcionar a los municipios herrameinta útiles para trabajar en adaptación y mitigación

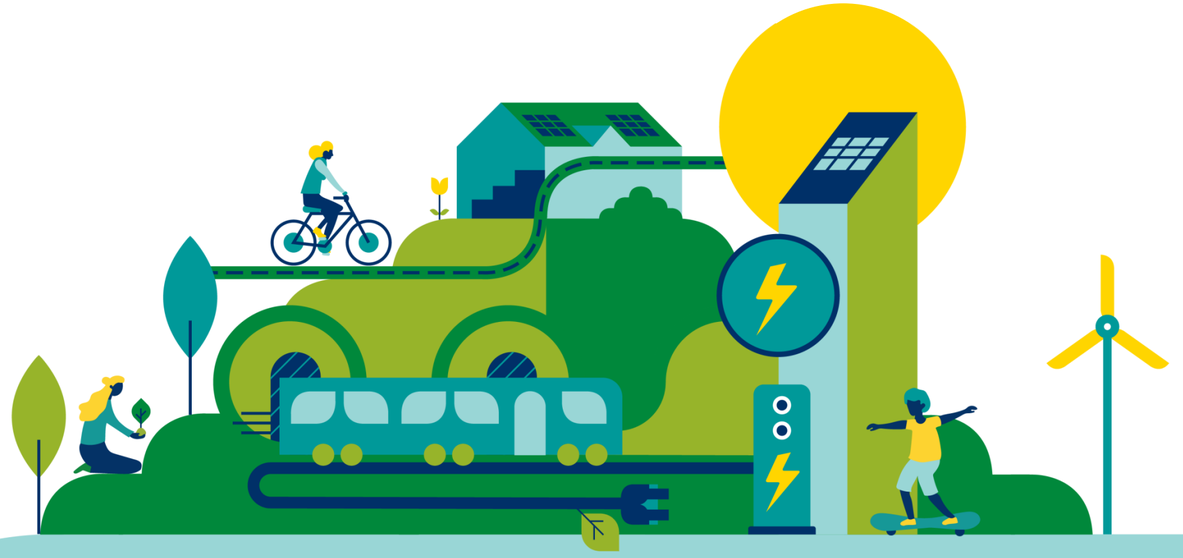


Redoble sus medidas por el clima y la energía!

Únase al Pacto de los Alcaldes o renueve sus compromisos

Siga informándose en eumayors.eu!

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Por una Europa más justa y climáticamente neutral