Lithuanian

Portuguese

Maltese

Polish

# Open public consultation - Questionnaire on the heating and cooling strategy

heating and cooling strategy	,
Fields marked with * are mandatory.	
Introduction	
About you	
*Language of my contribution	
Bulgarian	
Croatian	
Czech	
Danish	
Dutch	
English	
Estonian	
Finnish	
French	
German	
Greek	
Hungarian	
Irish	
Italian	
Latvian	

0	Romanian
0	Slovak
0	Slovenian
0	Spanish
0	Swedish
*I am	giving my contribution as
	Academic/research institution
•	Business association
0	Company/business
0	Consumer organisation
0	EU citizen
0	Environmental organisation
0	Non-EU citizen
0	Non-governmental organisation (NGO)
	Public authority
0	Trade union
0	Other
*First	name
Г	Diego
*Surr	ame
F	ROSSI
*Ema	il (this won't be published)
r	ossi.aiel@cia.it
*Orga	anisation name
255	character(s) maximum
A	AIEL - Associazione Italiana Energie Agroforestali

#### \*Organisation size

- Micro (1 to 9 employees)
- Small (10 to 49 employees)
- Medium (50 to 249 employees)
- Large (250 or more)

#### Transparency register number

Check if your organisation is on the transparency register. It's a voluntary database for organisations seeking to influence EU decision-making.

535669595014-71

#### \*Country of origin

Please add your country of origin, or that of your organisation.

This list does not represent the official position of the European institutions with regard to the legal status or policy of the entities mentioned. It is a harmonisation of often divergent lists and practices.

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	Afghanistan		Djibouti	0	Libya		Saint Martin
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							Miquelon
	Albania		Dominican	0	Lithuania		Saint Vincent
			Republic				and the
							Grenadines
	Algeria		Ecuador	0	Luxembourg		Samoa
	American Samoa		Egypt	0	Macau		San Marino
	Andorra		El Salvador	0	Madagascar		São Tomé and
							Príncipe
	Angola		Equatorial Guinea	0	Malawi		Saudi Arabia
	Anguilla		Eritrea	0	Malaysia		Senegal
	Antarctica		Estonia	0	Maldives		Serbia
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	Barbuda						
	Argentina		Ethiopia	0	Malta		Sierra Leone
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0	Bhutan	0	Greenland		Myanmar/Burma	0	Svalbard and
							Jan Mayen
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0	Bonaire Saint	0	Guadeloupe		Nauru		Switzerland
	Eustatius and						
	Saba						
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	Herzegovina						
0	Botswana	0	Guatemala	0	Netherlands		Taiwan
0	Bouvet Island	0	Guernsey		New Caledonia		Tajikistan
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	Islands						
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			McDonald Islands	3			

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	Cambodia	0	Hungary	0	North Korea	0	Trinidad and
							Tobago
0	Cameroon	0	Iceland	0	North Macedonia	0	Tunisia
	Canada	0	India	0	Norway	0	Türkiye
	Cape Verde		Indonesia	0	Oman	0	Turkmenistan
	Cayman Islands	0	Iran	0	Pakistan	0	Turks and
							Caicos Islands
0	Central African	0	Iraq	0	Palau	0	Tuvalu
	Republic						
0	Chad	0	Ireland	0	Palestine	0	Uganda
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0	China	0	Israel	0	Papua New	0	United Arab
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	Democratic	Lesotho		Saint Kitts and	Zimbabwe
	Republic of the			Nevis	
	Congo				
0	Denmark	Liberia	0	Saint Lucia	
*Are y	ou active (core bu	siness) in a field relat	ed	to heating and cod	oling?
•	Policy and advoca	асу			
0	Administration (pla	anning, permitting, na	atio	nal or local admini	stration)
0	Energy utilities				
0	Finance				
0	Advisory services	, energy service com	par	nies	
0	Energy communiti	es or cooperatives			
0	NGO				
0	Manufacturing of I	neating and cooling a	pp	liances and systen	ns
0	Installation/sales	or maintenance of hea	atin	g and cooling app	liances and systems
0	Construction or bu	uilding renovation			
0	Operators of distri	ict heating and coolin	g s	ystem	
0	Industry				
0	Operators of coge	neration plant			
0	Housing providers	3			
0	Data centres				
0	Other (please spe	cify)			
	Not active in this f	ield			

The Commission will publish all contributions to this public consultation. You can choose whether you would prefer to have your details published or to remain anonymous when your contribution is published. For the purpose of transparency, the type of respondent (for example, 'business association, 'consumer association', 'EU citizen') country of origin, organisation name and size, and its transparency register number, are always published. Your e-mail address will never be published. Opt in to select the privacy option that best suits you. Privacy options default based on the type of respondent selected

#### \*Contribution publication privacy settings

The Commission will publish the responses to this public consultation. You can choose whether you would like your details to be made public or to remain anonymous.

#### Anonymous

Only organisation details are published: The type of respondent that you responded to this consultation as, the name of the organisation on whose behalf you reply as well as its transparency number, its size, its country of origin and your contribution will be published as received. Your name will not be published. Please do not include any personal data in the contribution itself if you want to remain anonymous.

#### Public

Organisation details and respondent details are published: The type of respondent that you responded to this consultation as, the name of the organisation on whose behalf you reply as well as its transparency number, its size, its country of origin and your contribution will be published. Your name will also be published.

I agree with the personal data protection provisions

#### Part A - Scope

\*1. How relevant is the Heating and Cooling Strategy to the following objectives?

Use drag&drop or the up/down buttons to change the order or accept the initial order.

·	Competitiveness
<b>#</b>	Energy security
<b>#</b>	Energy affordability
<b>#</b>	Addressing energy poverty
<b>#</b>	Fairness, consumer protection and empowerment
<b>#</b>	Decarbonisation
<b>#</b>	Sustainability and environmental protection
·	Energy efficiency

iii	Public health			

#### Other (please specify)

100 character(s) maximum

2. How relevant for EU policy is the challenge of the growing cooling demand?

Rate from 1 (not relevant) to 5 (very relevant)

1) In buildings/space cooling	***
2) In data centres	会会会会会
3) In energy infrastructure	***
4) In industry	***
5) Other (please specify)	

#### Other (please specify)

200 character(s) maximum

Please specify how, according to you, this challenge is relevant for EU policy.

500 character(s) maximum

Cooling must be recognised in EU policy as a necessity, not an optional luxury, in homes across Europe. However, heating remains the largest energy challenge, cooling is easier to tackle: cooling-equipment investment costs are comparatively low and market is already steadly growing in the last decade. Moreover the demand is inherently well suited to renewable electricity unlike heating. Therefore, cooling is a priority but not a challenge for EU policy.

#### Part B - Barriers

1. According to you, what are the key barriers to the **affordable decarbonisation of space heating?** 

(please select up to 5 key barriers per building category)

	Residential - individual	Residential - collective	Non residential - public	Non residential - private
Regulatory complexity	V	V	V	<b>V</b>
Infrastructure-related barriers				
Poor energy performance of buildings	V	V	V	V
High initial investment	V			V
High operational costs (eg electricity price)				
High financing costs	V	V	V	V
Insufficient return on investment				
Administrative/regulatory barriers		<b>V</b>	V	
Length and complexity of installation				
Technical barriers				
Shortage of skilled professionals (planners, installers, etc.)	V	V	V	V
Long waiting time for installation				
Lack of incentives for landlord and/or tenant in case of rental				
Insufficient awareness, trust or unwillingness towards decarbonisation solutions				
Lack of fit-for-purpose or easily available technologies				

#### Other (please specify/develop)

200	ou character(s) maximum							

2. According to you, what are the key barriers to the **affordable decarbonisation of industrial process heat?** 

(please select up to 5 key barriers for each temperature level)

Industrial	Industrial heat	Industrial
heat below	between 200°C	heat above
200°C	and 500°C	500°C

	1		I
Regulatory complexity	<b>V</b>	<b>V</b>	<b>V</b>
Infrastructure-related barriers			
High capital cost	V	V	V
High operational costs			
High financing costs	V	V	V
Lack of access to clean energy contracts, including PPAs			
Length of permitting processes	V	V	V
Lack of flexibility of industrial process			
Challenge to adapt or redesign industrial process to match renewable heat supply or electrification			
Impact on competitiveness vis-a-vis EU competitors			
Impact on competitiveness vis-a-vis international competitors			
Lack of technology adapted to specific needs			
Lack of operational standards adapted to specific needs			
Insufficient awareness, trust or unwillingness towards decarbonisation solutions	V	<b>V</b>	V
Complexity and length of State aid procedures			

#### Other (please specify/develop)

20	00 character(s) maximum

\*3. According to you, what are the key barriers to affordable decarbonisation through efficient district heating and cooling in line with Article 26 EED?

Maximum 5 selection(s)

- Regulatory complexity
- Infrastructure-related barriers
- Administrative barriers
- Technical barriers

High initial investment		
High operational costs		
High financing costs		
Insufficient awareness or trust in solution	ons	
Lack of fit-for-purpose or easily availab	le technolog	gies
Lack of available renewable resources		
Limits unnecessarily consumer choice		
Complexity and length of State aid proc	edures	
N/A		
or (places enecify/develop)		
er (please specify/develop)  O character(s) maximum		
ergy storage?		•
according to you, what are the key barriers ergy storage?  ase select up to 5 key barriers for each se		•
ergy storage?	ector of app	olication)
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ergy storage? ase select up to 5 key barriers for each select up to 5 key barriers for each select up to 5 key barriers for each select up to 5 key barriers	In industry	In district heating and cooling
ase select up to 5 key barriers for each se  Regulatory complexity  Infrastructure-related barriers  High initial investment	In industry	In district heating and cooling
ase select up to 5 key barriers for each select	In industry	In district heating and cooling
ase select up to 5 key barriers for each select	In industry	In district heating and cooling
Regulatory complexity Infrastructure-related barriers High initial investment High operational costs High financing costs Administrative barriers	In industry	In district heating and cooling

## 5. According to you, what are the key barriers to **the recovery of waste (excess) heat?** (please select up to 5 key barriers for each source of waste heat)

	Industrial waste heat	Waste heat from data centres	Waste heat from other cooling and refrigeration processes	Waste heat from public infrastructure/ services (e.g. wastewater treatment, subway)	Waste heat or cold in energy production (power plants, LNG regasification)
Regulatory complexity					
Infrastructure-related barriers (e.g. access to district heating)	V	V	<b>▽</b>	<b>▽</b>	
High initial investment	V	<b>V</b>	<b>V</b>	<b>▽</b>	V
High operational costs					
High financing costs	V	<b>V</b>	V	<b>▽</b>	<b>V</b>
Insufficient return on investment					
Administrative barriers					
Technical barriers					
Barriers related to skills	V	<b>V</b>	V	<b>▽</b>	<b>V</b>
Insufficient awareness or trust in solutions	V	<b>V</b>	<b>▽</b>	<b>▽</b>	<b>V</b>
Lack of fit-for-purpose or easily available technologies					

### Other (please specify/develop) 200 character(s) maximum Part C - Policy options \*1. According to you, what are the **priority EU policy framework options** to accelerate affordable decarbonisation of heating and cooling? Maximum 3 selection(s) Implementation of the current EU regulatory framework Additional public financing Additional policy initiatives (non-regulatory) including guidance on implementation of existing legislation Simplification of current legislative framework (towards 2030) New legislative framework (towards 2040) ■ N/A Please specify or complement if needed 200 character(s) maximum Decarbonisation technologies exist, but over-regulation slows renewables. A pragmatic, technology-neutral

approach is needed to ensure competitiveness, security and energy independence.

2. Which regulatory or administrative barriers in the existing EU legislative framework need to be removed, and which incentives need to be strengthened or removed to accelerate affordable decarbonisation of heating and cooling and to simplify procedures?

500 character(s) maximum

The renewable energy industry needs clear, stable, and harmonised requirements across the EU to optimise production and lower investment costs for citizens. Incentives for fossil fuels, including those justified by energy poverty, should be fully removed, as they benefit fuel producers. For renewables, access to credit for households and businesses must be improved and financial costs reduced.

\*3. According to you, what are the **priority energy system design options** to accelerate affordable decarbonisation of heating and cooling?

Maximum 3 selection(s)

	Integrated planning of electricity, gas and heat infrastructure at EU level
	(including decommissioning of the gas grid or transitioning to renewable gases)
	Integrated planning of electricity, gas and heat infrastructure at national level
	Mapping of heat sources and demand at national level
	Mapping of future cooling needs
	Integrated planning of electricity, gas and heat infrastructure at local level
	Stronger integration of cooling in urban planning
	Support (in the form of guidance/financial assistance/technical assistance) to the
	implementation of local heating and cooling plans in line with Article 25 EED
	Cooperation between electricity grid operators and efficient district heating and
	cooling systems
	Planned gas infrastructure decommissioning
	Promotion of efficient district heating and cooling
	Enabling waste heat recovery e.g. through sectoral programmes in data centres,
	supermarkets, large commercial buildings etc.
<b>V</b>	N/A
	se specify or complement if needed
	haracter(s) maximum
	hile electrification is key, integrating wood, pellet, and biomass with electric systems is essential. Combining burces ensures a more resilient, efficient, and reliable energy system.
*4. Ac	cording to you, what are the <b>priority options related to innovation</b> to
accel	erate affordable decarbonisation of heating and cooling?
	mum 3 selection(s)
	Incentives for manufacturers of clean heating and cooling appliances and
	systems
	systems
	systems Obligations on manufacturers of clean heating and cooling appliances and
	systems Obligations on manufacturers of clean heating and cooling appliances and systems
	Systems  Obligations on manufacturers of clean heating and cooling appliances and systems  Incentives for installers of clean heating and cooling appliances and systems

	Promotion of third-party services in efficient district heating and cooling or
	industry
	Promotion of model public-private partnerships for waste heat reuse in district
	heating
<b>V</b>	Promotion of replacement schemes or social leasing for clean heating appliances
<b>V</b>	Promotion of business models that integrate financing and increase installations of clean heating appliances
	Promotion of renewable energy communities
	Rewarding of non-fossil flexibility in electricity markets
<b>V</b>	Support to manufacturing of clean heating and cooling technologies
	N/A
Plea	se specify or complement if needed
200	character(s) maximum
	ccording to you, what are the <b>priority options to ensure affordability, just</b>
tran	sition and consumer empowerment in the context of the decarbonisation of
<b>tran</b> heat	sition and consumer empowerment in the context of the decarbonisation of ng and cooling?
<b>tran</b> heat	sition and consumer empowerment in the context of the decarbonisation of ing and cooling?  imum 3 selection(s)
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<b>tran</b> heat	sition and consumer empowerment in the context of the decarbonisation of ing and cooling?  imum 3 selection(s)  Financial incentives to cover upfront investment costs  Innovative services offer (heat as a service, social leasing of heat pumps, energy
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<b>tran</b> heat	sition and consumer empowerment in the context of the decarbonisation of ing and cooling?  imum 3 selection(s)  Financial incentives to cover upfront investment costs  Innovative services offer (heat as a service, social leasing of heat pumps, energy
<b>tran</b> heat	sition and consumer empowerment in the context of the decarbonisation of ing and cooling?  Simum 3 selection(s)  Financial incentives to cover upfront investment costs  Innovative services offer (heat as a service, social leasing of heat pumps, energy performance contracts)
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<b>tran</b> heat	sition and consumer empowerment in the context of the decarbonisation of ing and cooling?  Jimum 3 selection(s)  Financial incentives to cover upfront investment costs  Innovative services offer (heat as a service, social leasing of heat pumps, energy performance contracts)  Regulated heat tariffs in efficient district heating or clauses to protect vulnerable consumers from raising heat costs  Early involvement in heating and cooling plans at local level and in decision-making in relation to collective heating and cooling  Public awareness campaigns on the benefits of efficient, clean heating and cooling solutions  Regulatory measures (e.g. minimum energy performance standards for heating

#### Please specify or complement if needed

200 character(s) maximum

Social leasing should not focus on a single technology. All eco-designed renewable technologies should be equally supported to ensure fairness, innovation, and energy security.

\*6. According to you, what are the **priority options for affordable and efficient** space cooling?

	Maximum 3 selection(s)	
	Awareness raising	
	Reduction of the need for cooling (urban heat island effect), acting at urban le	evel
	$^{ m I\!\!I}$ Better integration of cooling, including passive cooling, in urban planning	
	Accelerated deployment of air conditioning and reversible heat pumps in prior	rity
	buildings	
	$\hfill \square$ Stronger promotion of passive cooling (shading, ventilation etc) and hybrid	
	cooling (passive plus active cooling) in buildings	
	Permitting and administrative simplification	
	Connecting cooling demand with cold sources (eg geocooling, waste cold, co	old
	waters), including via district cooling	
	Focus on vulnerable households	
	Focus on public buildings	
	Reinforcement of electricity infrastructure to better cope with increased power	<b>:</b> r
	demand for cooling	
	Development of demand-side flexibility services in cooling (good match of	
	cooling demand and PV production peaks)	
	Address barriers to cooling equipment in outdated building safety codes	
	N/A	
	Places aposify or complement if peopled	
ſ	Please specify or complement if needed  200 character(s) maximum	
	200 Sharastoria, maximum	

\*7. According to you, what are the **priority options to accelerate the affordable** deployment of geothermal energy?

Maximum 3 selection(s)

Specific targets for geothermal
Awareness raising
Adaptation of mining codes
Adaptation of water regulatory framework
Permitting and administrative simplification
Financial guarantees (de-risking)
Policies to increase data availability
Support to public acceptance
✓ N/A
Please specify or complement if needed
200 character(s) maximum
*8. According to you, what are the <b>priority options to accelerate the affordable</b>
deployment of solar thermal energy?
Maximum 3 selection(s)
Specific targets for solar thermal
Awareness raising
Adaptation of regulatory framework
Permitting and administrative simplification
Financial guarantees (de-risking)
□ N/A
Please specify or complement if needed
200 character(s) maximum
*9. According to you, what are the <b>priority options to accelerate the affordable</b>
deployment of waste (excess) heat and cold recovery?
Maximum 3 selection(s)  Awareness raising
- Awareness raising
Technical support
Financial advice

V	Targets for heat and cold recovery
	Adaptation of regulatory framework
	N/A

#### Please specify or complement if needed

200 character(s) maximum

AIEL urges an EU heating strategy that is technology-neutral, supports all renewables, values sustainable biomass, and avoids overreliance on electrification to ensure resilience and fairness.

#### **Contact**

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