



**2016/2058(INI)**

30.5.2016

# **AMENDMENTS**

## **1 - 218**

**Draft report**  
**Adam Gierek**  
(PE582.058v01-00)

EU Strategy on Heating and Cooling  
(2016/2058(INI))



**Amendment 1**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Citation 1 a (new)**

*Motion for a resolution*

*Amendment*

– *having regard to the Paris Agreement made in December 2015 at the 21st Conference of the Parties (COP 21) to the UNFCCC,*

Or. en

**Amendment 2**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Citation 1 b (new)**

*Motion for a resolution*

*Amendment*

– *having regard to the Commission communication to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions of 15 December 2011 Energy Roadmap 2050 (COM(2011) 0885)*

Or. en

**Amendment 3**

**Dario Tamburrano, David Borrelli**

**Motion for a resolution**

**Citation 5 a (new)**

*Motion for a resolution*

*Amendment*

– *having regard to the Paris Agreement of December 2015 concluded at the 21st Conference of the Parties (COP 21) to the UNFCCC;*

Or. en

**Amendment 4**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Citation 7 a (new)**

*Motion for a resolution*

*Amendment*

– *having regard to Directive 2009/28/EC of the European Parliament and of the Council of 23 April 2009 on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC,*

Or. en

**Amendment 5**

**Flavio Zanonato, Simona Bonafè, Kathleen Van Brempt**

**Motion for a resolution**

**Citation 7 a (new)**

*Motion for a resolution*

*Amendment*

– *having regard to the Commission communication entitled 'Roadmap for moving to a competitive low-carbon economy in 2050,*

Or. en

**Amendment 6**

**Flavio Zanonato, Simona Bonafè, Kathleen Van Brempt**

**Motion for a resolution**

**Citation 7 b (new)**

*Motion for a resolution*

*Amendment*

– *having regard to its resolution of 5 February 2014 on a 2030 framework for climate and energy policies,*

Or. en

**Amendment 7**

**Flavio Zanonato, Simona Bonafè, Kathleen Van Brempt**

**Motion for a resolution**

**Citation 8 a (new)**

*Motion for a resolution*

*Amendment*

– *having regard to the European Parliament resolution of 9 July 2015 on resource efficiency: moving towards a circular economy,*

Or. en

**Amendment 8**

**Flavio Zanonato, Simona Bonafè, Kathleen Van Brempt**

**Motion for a resolution**

**Citation 8 b (new)**

*Motion for a resolution*

*Amendment*

– *having regard to the Paris Agreement made in December 2015 at the 21st Conference of the Parties (COP 21) to the UNFCCC,*

Or. en

## Amendment 9

**Benedek Jávor**

on behalf of the Verts/ALE Group

### Motion for a resolution

#### Recital A

##### *Motion for a resolution*

A. whereas 50% of the energy used for heating and cooling *in the EU is primary* energy;

##### *Amendment*

A. *whereas the 2015 Paris Agreement on climate change (COP 21) aims at 'holding the increase in the global average temperature to well below 2 °C above pre-industrial levels and to pursue efforts to limit the temperature increase to 1.5 °C above pre-industrial levels; whereas 50% of the primary energy in the EU is used for heating and cooling; whereas a heating and cooling sector compatible with the EU's energy and climate goals needs to be based on 100% renewables by 2050 at the latest, which can only be achieved through reducing our energy consumption and making full use of the "energy efficiency first / first fuel" principle;*

Or. en

## Amendment 10

**Miriam Dalli**

### Motion for a resolution

#### Recital A

##### *Motion for a resolution*

A. whereas 50% of the energy used for heating and cooling in the EU is primary energy;

##### *Amendment*

A. whereas 50% of the energy used for heating and cooling in the EU is primary energy, *but no EU policy tools and capacities are sufficiently developed yet to drive the transformation of this sector, to maximise the use of potentials and to deploy solutions for demand reduction and decarbonisation at the required scale and pace;*

**Amendment 11**  
**Miapetra Kumpula-Natri**

**Motion for a resolution**  
**Recital A**

*Motion for a resolution*

A. whereas 50% of the energy used for heating and cooling in the EU is primary energy;

*Amendment*

A. whereas 50% of the *final* energy *demand is* used for heating and cooling in the EU is primary energy *and supports the Commission analysis that heating and cooling demand is likely not disappearing in the future;*

Or. en

**Amendment 12**  
**Dario Tamburrano, David Borrelli**

**Motion for a resolution**  
**Recital A**

*Motion for a resolution*

A. whereas 50% of the energy used for heating and cooling in the EU is primary energy;

*Amendment*

A. whereas 50% of the energy used for heating and cooling in the EU is primary energy *and whereas heating & cooling represents on average around 70% of energy consumption in buildings;*

Or. en

**Amendment 13**  
**Kathleen Van Brempt, Miriam Dalli, Theresa Griffin, Edouard Martin, Miroslav Poche, Flavio Zanonato, Jeppe Kofod, Martina Werner**

**Motion for a resolution**  
**Recital A**

*Motion for a resolution*

A. whereas 50% of the energy used for heating and cooling in the EU *is primary energy*;

*Amendment*

A. whereas 50% of the *final energy demand is* used for heating and cooling in the EU *of which 80% is used in buildings*;

Or. en

**Amendment 14**

**Algirdas Saudargas, Jerzy Buzek, Pilar del Castillo Vera, András Gyürk**

**Motion for a resolution**

**Recital A**

*Motion for a resolution*

A. whereas 50% of the energy used for heating and cooling *in the EU is primary energy*;

*Amendment*

A. whereas *almost* 50% of the *EU final energy consumption is* used for heating and cooling;

Or. en

**Amendment 15**

**Edward Czesak**

**Motion for a resolution**

**Recital A**

*Motion for a resolution*

A. whereas 50% of the energy used for heating and cooling in the EU *is primary energy*;

*Amendment*

A. whereas 50% of the energy used for heating and cooling in the EU *is final energy*;

Or. pl

**Amendment 16**

**Adam Gierek**

**Motion for a resolution**

**Recital A**



*Motion for a resolution*

A. whereas 50% of the energy used for heating and cooling in the EU is **primary** energy;

*Amendment*

A. whereas 50% of the energy used for heating and cooling in the EU is **final** energy;

Or. pl

**Amendment 17**

**Kathleen Van Brempt, Dan Nica, Jeppe Kofod, Edouard Martin, Flavio Zanonato, Theresa Griffin, Miapetra Kumpula-Natri, Miriam Dalli, Miroslav Poche, Martina Werner**

**Motion for a resolution**

**Recital A a (new)**

*Motion for a resolution*

*Amendment*

***Aa. reminds that 50% of our necessary cuts in emissions, to live up to our COP21 engagements, must come from energy efficiency, and given that buildings consume 40% of final energy and cause 36% of CO2 emissions, stresses that lowering energy demand in buildings is the most direct and cost-effective way to actually reach our climate ambitions, meanwhile boosting the EU's energy security and re-industrialisation;***

Or. en

**Amendment 18**

**Miroslav Poche, Kathleen Van Brempt**

**Motion for a resolution**

**Recital A a (new)**

*Motion for a resolution*

*Amendment*

***Aa. whereas every 1% increase in energy savings reduces gas imports by 2.6% [1];***

***[1] European Commission (2014)***

*Communication Energy Efficiency and its contribution to energy security and the 2030 Framework for climate and energy policy (COM/2014/0520 final), retrieved from <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A52014DC0520>*

Or. en

**Amendment 19**

**Soledad Cabezón Ruiz, José Blanco López, Simona Bonafè**

**Motion for a resolution**

**Recital A a (new)**

*Motion for a resolution*

*Amendment*

*Aa. whereas the ways of using energy differ according to Europe's climate zones, and whereas the importance of heating systems in colder zones and the importance of cooling systems in hot zones, being equal, should both be taken into account;*

Or. es

**Amendment 20**

**Miapetra Kumpula-Natri**

**Motion for a resolution**

**Recital A a (new)**

*Motion for a resolution*

*Amendment*

*Aa. whereas more must be done to both reduce heating demands from buildings and switch remaining demands away from burning imported fossil fuels in individual boilers towards sustainable heating and cooling options in line with EU 2050 objectives;*

**Amendment 21**

**José Blanco López, Soledad Cabezón Ruiz**

**Motion for a resolution**

**Recital A a (new)**

*Motion for a resolution*

*Amendment*

***Aa. whereas the heating and cooling sector should contribute to the decarbonisation of the economy;***

**Amendment 22**

**Kathleen Van Brempt, Miroslav Poche, Theresa Griffin, Jeppe Kofod, Edouard Martin, Martina Werner**

**Motion for a resolution**

**Recital A b (new)**

*Motion for a resolution*

*Amendment*

***Ab. given the huge share buildings represent in the total final energy consumption, stresses the crucial role a higher energy efficiency in buildings and demand response programmes can play in balancing energy demand and topping off peak demand, which leads to reducing overcapacity and the lowering of generation, operational and transport costs;***

**Amendment 23**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

## Recital B

### *Motion for a resolution*

B. whereas – ***although there is potential*** – the share of RES energy in heating and cooling ***in the Member States is insufficient***;

### *Amendment*

B. whereas the share of RES energy in heating and cooling ***has been slowly increasing, providing up to 18% of primary energy supply in 2012, but the potential for increased energy efficiency measures as well as renewable heating and cooling is still largely untapped and at current rates will be insufficient to reach the 2050 decarbonisation target in line with the Paris agreement***;

Or. en

## Amendment 24

**Kathleen Van Brempt, Jeppe Kofod, Miapetra Kumpula-Natri, Theresa Griffin, Edouard Martin, Miroslav Poche**

### Motion for a resolution

#### Recital B

### *Motion for a resolution*

B. whereas – although there is potential – the share of RES energy in heating and cooling in the Member States is insufficient;

### *Amendment*

B. whereas – although there is ***a huge potential for renewable energy on a European, national, local and micro-level*** – the share of RES energy in heating and cooling in the Member States is insufficient;

Or. en

## Amendment 25

**Françoise Grossetête, Anne Sander**

### Motion for a resolution

#### Recital B

### *Motion for a resolution*

B. whereas – although there is potential – the share of RES energy in

### *Amendment*

B. whereas – although there is potential, ***especially where biomass is***

heating and cooling in the Member States is insufficient;

*concerned* – the share of RES energy in heating and cooling in the Member States is insufficient;

Or. fr

**Amendment 26**  
**Edward Czesak**

**Motion for a resolution**  
**Recital B**

*Motion for a resolution*

B. whereas – *although there is potential* – the share of RES energy in heating and cooling in the Member States *is insufficient*;

*Amendment*

B. whereas the share of RES energy in heating and cooling in the Member States *will be improved and is on its way to meet the 2020 RES target*;

Or. en

**Amendment 27**  
**Algirdas Saudargas, Jerzy Buzek**

**Motion for a resolution**  
**Recital B**

*Motion for a resolution*

B. whereas – *although* there is potential – the share of RES energy in heating and cooling in the Member States *is insufficient*;

*Amendment*

B. whereas, there is *further* potential *to increase* the share of RES *and recovered heat* energy in heating and cooling in the Member States;

Or. en

**Amendment 28**  
**Nikolay Barekov**

**Motion for a resolution**  
**Recital B**

*Motion for a resolution*

B. whereas – ***although*** there is potential – the share of RES energy in heating and cooling in the Member States is insufficient;

*Amendment*

B. whereas there is potential ***but*** the share of RES energy in heating and cooling in the Member States is insufficient;

Or. bg

**Amendment 29**

**Kathleen Van Brempt, Dan Nica, Miroslav Poche, Theresa Griffin, Edouard Martin, Jeppe Kofod, Flavio Zanonato, Martina Werner**

**Motion for a resolution**

**Recital B a (new)**

*Motion for a resolution*

*Amendment*

***Ba. points out that the demand for heating and cooling highly depends on local circumstances and that 90% of renewable energy is connected to the distribution grid, implicating the importance of the local dimension and distribution grids when talking about heating and cooling;***

Or. en

**Amendment 30**

**Fredrick Federley, Morten Helveg Petersen, Carolina Punset**

**Motion for a resolution**

**Recital B a (new)**

*Motion for a resolution*

*Amendment*

***Ba. whereas biomass represents 89% of total EU renewable heat consumption and 15% of total EU heat consumption and has great potential to further deliver significant and cost-effective solutions to a growing heat demand;***

**Amendment 31**

**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**

**Motion for a resolution**

**Recital B a (new)**

*Motion for a resolution*

*Amendment*

*Ba. whereas heating and cooling is a prime example of the need for a holistic, integrated systems based approach to energy solutions, encompassing horizontal approaches to energy system design and the wider economy;*

**Amendment 32**

**Kathleen Van Brempt, Dan Nica, Jeppe Kofod, Theresa Griffin, Edouard Martin, Miapetra Kumpula-Natri, Miroslav Poche, Martina Werner**

**Motion for a resolution**

**Recital B b (new)**

*Motion for a resolution*

*Amendment*

*Bb. stresses that the focus on the local dimension should also be reflected in infrastructural decisions, preparing the grid for more heating and cooling based on renewable energy at local and micro level, improving sustainability and efficiency and lowering costs and transportation losses;*

**Amendment 33**

**Barbara Kappel**

**Motion for a resolution**  
**Recital C**

*Motion for a resolution*

C. whereas the *share of primary energy from fossil fuels in heating and cooling is 75% and does not guarantee decarbonisation, thereby accelerating climate change and causing significant harm to the environment;*

*Amendment*

C. whereas the heating and cooling *sector needs to fully contribute to the EU's greenhouse gas emission reduction targets for 2030 and 2050;*

Or. en

**Amendment 34**  
**Benedek Jávor**  
on behalf of the Verts/ALE Group

**Motion for a resolution**  
**Recital C**

*Motion for a resolution*

C. whereas the share of primary energy from fossil fuels in heating and cooling is *75% and does not guarantee decarbonisation*, thereby accelerating climate change and causing significant harm to the environment;

*Amendment*

C. whereas the share of primary energy from fossil fuels in heating and cooling is *currently 75%, whereas fossil fuels are still heavily subsidised, despite the Commission's recommendations and G20 commitments to phase-out such subsidies*, thereby *impeding decarbonisation while* accelerating climate change and causing significant harm to the environment;

Or. en

**Amendment 35**  
**Flavio Zanonato, Simona Bonafè**

**Motion for a resolution**  
**Recital C**

*Motion for a resolution*

C. whereas the share of primary

*Amendment*

C. whereas the share of primary



energy from fossil fuels in heating and cooling is 75% **and does not guarantee decarbonisation, thereby accelerating climate change** and causing significant harm to the environment;

energy from fossil fuels in heating and cooling is 75%, **thus running contrary to the efficient transition towards decarbonized and resilient heating and cooling systems** and causing significant harm to the environment;

Or. en

**Amendment 36**  
**Edward Czesak**

**Motion for a resolution**  
**Recital C**

*Motion for a resolution*

C. whereas the share of primary energy from fossil fuels in heating and cooling is 75% **and does not guarantee decarbonisation, thereby accelerating climate change and causing significant harm to the environment;**

*Amendment*

C. whereas the share of primary energy from fossil fuels in heating and cooling is 75% **and requires gradual increase in low-emission generation;**

Or. en

**Amendment 37**  
**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**

**Motion for a resolution**  
**Recital C**

*Motion for a resolution*

C. whereas the share of primary energy from fossil fuels in heating and cooling **is 75% and does not guarantee decarbonisation, thereby accelerating climate change and causing significant harm to the environment;**

*Amendment*

C. whereas the share of primary energy from fossil fuels in heating and cooling **remains very high at 75%, presenting a major barrier to decarbonisation, thereby accelerating climate change and causing significant harm to the environment;**

Or. en

**Amendment 38**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Recital C a (new)**

*Motion for a resolution*

*Amendment*

***Ca. whereas ambitious policies for renewable heating and cooling in combination with reduced energy consumption and energy efficiency measures, are a major driving force to reduce the EU's import dependency and its overall external energy bill, cutting costs for household, industry and business, increasing competitiveness and achieving the EU's energy and climate goals in line with the Paris Agreement 1.5 °C goal;***

Or. en

**Amendment 39**

**Patrizia Toia**

**Motion for a resolution**

**Recital C a (new)**

*Motion for a resolution*

*Amendment*

***Ca. whereas heating and cooling systems are produced locally in fragmented markets and to remove obstacles and make heating and cooling more efficient and sustainable, action needs to be taken at local, regional and national level, within a European support framework;***

Or. it

**Amendment 40**

**Morten Helveg Petersen, Carolina Punset, Fredrick Federley, Lieve Wierinck**

**Motion for a resolution**

**Recital C a (new)**

*Motion for a resolution*

*Amendment*

*Ca. whereas it is estimated that the amount of heat produced from industrial and other commercial processes which is then wasted into the atmosphere or water (rather than utilised in some productive way) is enough to cover the EU's entire heating needs in residential and tertiary buildings;*

Or. en

**Amendment 41**

**Anneleen Van Bossuyt**

**Motion for a resolution**

**Recital C a (new)**

*Motion for a resolution*

*Amendment*

*Ca. whereas priority should be given to efficiency in order to reduce the energy demand in order to reduce the need for overinvesting in renewable energy;*

Or. en

**Amendment 42**

**Krišjānis Kariņš**

**Motion for a resolution**

**Recital C a (new)**

*Motion for a resolution*

*Amendment*

*Ca. whereas buildings sector emits around 13% of all CO2 emissions in the*

*EU;*

Or. en

**Amendment 43**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Recital C b (new)**

*Motion for a resolution*

*Amendment*

***Cb. whereas Member States need to fully implement the existing Energy Efficiency Directive (EED), the Renewable Energy Directive (RED) and the Energy Performance of Buildings Directive; whereas an integrated approach on transforming energy sources as well as heating and cooling systems is indispensable and would deliver major environmental, economic and social benefits; whereas with their upcoming revision the coherence and synergies between and within the EED, RED and EPBD need to be reinforced accordingly;***

Or. en

**Amendment 44**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Recital D**

*Motion for a resolution*

*Amendment*

***D. whereas the use of progressive heating or cooling systems in buildings presumably means that those buildings will first have to undergo a thorough process of thermomodernisation;***

***D. whereas the bulk of European heat is consumed in existing, energy inefficient buildings; whereas vast synergies can be exploited by promoting the use of renewable heating or cooling systems in***

*combination with energy efficiency measures in the building sector, thereby reducing energy demand and the costs for consumers and contributing to alleviating energy poverty as well as triggering the creation of qualified local jobs;*

Or. en

#### **Amendment 45**

**Dario Tamburrano, David Borrelli**

#### **Motion for a resolution**

##### **Recital D**

###### *Motion for a resolution*

D. whereas the use of *progressive* heating or cooling systems in buildings *presumably means that* those buildings will first have to undergo a thorough process of thermomodernisation;

###### *Amendment*

D. whereas *for* the use of *advanced and integrated* heating or cooling systems in *existing* buildings those buildings will first have to undergo a thorough process of thermomodernisation *comprising, inter alia, reinforcement of outer insulation, improvement the storage capacity of building fabric, modernisation of doors and window frames, and upgrade of ventilation, heating, cooling and hot water installations;*

Or. en

#### **Amendment 46**

**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**

#### **Motion for a resolution**

##### **Recital D**

###### *Motion for a resolution*

D. whereas the use of progressive heating or cooling systems in buildings *presumably means* that those buildings will first *have to* undergo a thorough

###### *Amendment*

D. whereas the use of progressive heating or cooling systems in buildings *will also require* that those buildings will first undergo a thorough process of

process of thermomodernisation;

thermomodernisation *encompassing genuinely homogenous insulation*;

Or. en

#### **Amendment 47**

**Algirdas Saudargas, Jerzy Buzek, Seán Kelly**

#### **Motion for a resolution**

##### **Recital D**

###### *Motion for a resolution*

D. whereas the use of *progressive* heating or cooling systems in buildings *presumably means that those buildings will first have to undergo a thorough process of thermomodernisation*;

###### *Amendment*

D. whereas the use of *efficient* heating or cooling systems in buildings *and* buildings *thermomodernisation needs to go hand in hand*;

Or. en

#### **Amendment 48**

**Edward Czesak**

#### **Motion for a resolution**

##### **Recital D**

###### *Motion for a resolution*

D. whereas the use of *progressive* heating or cooling systems in buildings *presumably means that those buildings will first have to undergo* a thorough process of thermomodernisation;

###### *Amendment*

D. whereas the use of *efficient* heating or cooling systems in buildings *needs to be carried out together with* a thorough process of thermomodernisation *which requires strategic energy planning*;

Or. en

#### **Amendment 49**

**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**

#### **Motion for a resolution**

**Recital D a (new)**

*Motion for a resolution*

*Amendment*

*Da. whereas measures for developing a comprehensive and integrated strategy for Heating and Cooling within the Energy Union offer significant opportunities for both EU business and consumers if implemented correctly, in terms of reducing overall energy costs for industry, boosting competitiveness and delivering cost savings to consumers;*

Or. en

**Amendment 50**

**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**

**Motion for a resolution**

**Recital D b (new)**

*Motion for a resolution*

*Amendment*

*Db. whereas EU regulatory frameworks serve to underline broad objectives, but true progress in transforming heating and cooling as part of a wider energy system overhaul is essential;*

Or. en

**Amendment 51**

**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**

**Motion for a resolution**

**Recital D c (new)**

*Motion for a resolution*

*Amendment*

*Dc. whereas the aim of optimising the role of renewables, particularly electricity,*

*into the overall energy grid through better integration with heating and cooling applications and transport, contributes to decarbonising the energy system, reducing energy import dependency, lowering energy bills for households and boosting competitiveness of EU industry;*

Or. en

**Amendment 52**

**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**

**Motion for a resolution**

**Recital D d (new)**

*Motion for a resolution*

*Amendment*

*Dd. whereas the most effective way of delivering on these joint objectives is to empower and support local and regional authorities, in conjunction with all relevant stakeholders, to apply a fully integrated systems based approach to urban planning, infrastructure development, building and renovation of housing stock and new industrial development in order to maximise potential cross-overs, efficiencies and other mutual benefits;*

Or. en

**Amendment 53**

**Kathleen Van Brempt, Dan Nica, Theresa Griffin, Miroslav Poche, Edouard Martin, Martina Werner**

**Motion for a resolution**

**Recital E**

*Motion for a resolution*

*Amendment*

E. whereas the energy efficiency of

E. whereas the energy efficiency of



buildings that have been through a complex thermomodernisation process for the sake of thermal comfort or comfort cooling also depends on the use of adequate energy systems that provide for the effective conversion of energy from primary sources;

buildings that have been through a complex thermomodernisation process for the sake of thermal comfort or comfort cooling also depends on the use of adequate energy **and distribution** systems that provide for the effective conversion **and transportation** of energy from primary sources, **for instance micro-generation of renewable energy and district heating and cooling systems can strongly reduce energy and transportation losses;**

Or. en

#### **Amendment 54**

**Benedek Jávor**

on behalf of the Verts/ALE Group

#### **Motion for a resolution**

##### **Recital E**

###### *Motion for a resolution*

E. whereas **the** energy efficiency of buildings **that have been through a complex thermomodernisation process for the sake of thermal comfort or comfort cooling also depends** on the use of adequate energy systems **that provide for the effective conversion of energy from primary sources;**

###### *Amendment*

E. whereas energy efficiency of buildings **depends also** on the use of adequate energy systems;

Or. en

#### **Amendment 55**

**Algirdas Saudargas, Bendt Bendtsen, Jerzy Buzek, Pilar del Castillo Vera, Seán Kelly**

#### **Motion for a resolution**

##### **Recital E**

###### *Motion for a resolution*

E. whereas the energy efficiency of buildings that have been through a

###### *Amendment*

E. whereas the energy efficiency of buildings that have been through a

complex thermomodernisation process for the sake of thermal comfort or comfort cooling also depends on the use of adequate energy systems that provide for the effective conversion of energy from primary sources;

complex thermomodernisation process for the sake of thermal comfort or comfort cooling also depends on the use of adequate energy systems that provide for the effective conversion *and distribution* of energy from primary sources;

Or. en

**Amendment 56**  
**Patrizia Toia**

**Motion for a resolution**  
**Recital E**

*Motion for a resolution*

E. whereas the energy efficiency of buildings that have been through a complex thermomodernisation process for the sake of thermal comfort or comfort cooling also depends on the use of adequate energy systems that provide for the effective conversion of energy from primary sources;

*Amendment*

E. whereas the energy efficiency of buildings that have been through a complex thermomodernisation process for the sake of thermal comfort or comfort cooling also depends on the use of adequate energy systems that provide for the effective conversion *and distribution* of energy from primary sources;

Or. it

**Amendment 57**  
**Adam Gierek**

**Motion for a resolution**  
**Recital E**

*Motion for a resolution*

E. whereas the energy efficiency of buildings that have been through a complex thermomodernisation process for the sake of thermal comfort or comfort cooling also depends on the use of adequate energy systems that provide for the effective conversion of energy from primary sources;

*Amendment*

E. whereas the energy efficiency of buildings that have been through a complex thermomodernisation process for the sake of thermal comfort or comfort cooling also depends on the use of adequate energy systems that provide for the effective conversion *and distribution* of energy from primary sources;

**Amendment 58**  
**Cornelia Ernst**

**Motion for a resolution**  
**Recital E**

*Motion for a resolution*

E. whereas the energy efficiency of buildings that have been through a complex thermomodernisation process for the sake of ***thermal comfort or comfort cooling*** also depends on the use of adequate energy systems that provide for the effective conversion of energy from primary sources;

*Amendment*

E. whereas the energy efficiency of buildings that have been through a complex thermomodernisation process for the sake of ***fulfilling thermal needs*** also depends on the use of adequate energy systems that provide for the effective conversion of energy from primary sources;

Or. en

**Amendment 59**  
**Jeppe Kofod**

**Motion for a resolution**  
**Recital E a (new)**

*Motion for a resolution*

***Ea. whereas ambitious goals for deep renovation of the existing building stock would create millions of European jobs, especially in SMEs, increase Energy Efficiency and play a vital role in ensuring minimising energy consumption for heating and cooling;***

*Amendment*

Or. en

**Amendment 60**  
**Cornelia Ernst**

**Motion for a resolution**

## Recital F

### *Motion for a resolution*

F. whereas architecture, urban planning and the diversity of European climate zones ***must be taken into account in*** the planning of energy-efficient, low-emission public and residential buildings ***with maximum thermal comfort or comfort cooling***;

### *Amendment*

F. whereas ***promising solutions and technology taking into account*** architecture, urban planning and the diversity of European climate zones ***are available today for*** the planning of energy-efficient, ***renewable-energy based and*** low-emission public and residential buildings ***ensuring an adequate indoor air temperature, air quality and hot water production***;

Or. en

## Amendment 61

**Benedek Jávor**

on behalf of the Verts/ALE Group

### Motion for a resolution

#### Recital F

### *Motion for a resolution*

F. whereas architecture, urban planning and the diversity of European climate zones must be taken into account in the planning of energy-efficient, ***low-emission public and residential*** buildings with maximum thermal comfort ***or comfort cooling***;

### *Amendment*

F. whereas architecture, urban planning, ***heat map analysis*** and the diversity of European climate zones, ***as well as the building type (public, residential, commercial)***, must be taken into account in the planning of energy-efficient, ***renewable-energy-equipped*** buildings with maximum thermal comfort;

Or. en

## Amendment 62

**Bronis Ropé**

### Motion for a resolution

#### Recital F

*Motion for a resolution*

F. whereas architecture, urban planning and the diversity of European climate zones must be taken into account in the planning of energy-efficient, low-emission public and residential buildings with maximum thermal comfort or comfort cooling;

*Amendment*

F. whereas architecture, urban planning, ***the varying historical experiences of building construction in different European regions***, and the diversity of European climate zones must be taken into account in the planning of energy-efficient, low-emission public and residential buildings with maximum thermal comfort or comfort cooling;

Or. It

*(The consequences of Soviet-era large-panel system construction in some EU Member States – large tracts of apartment blocks characterised by low energy efficiency – create very specific requirements for the implementation of building modernisation measures, which should be mentioned in a separate point.)*

**Amendment 63**

**Adam Gierek**

**Motion for a resolution**

**Recital F**

*Motion for a resolution*

F. whereas architecture, urban planning and the diversity of European climate zones must be taken into account in the planning of energy-efficient, low-emission public and residential buildings with maximum thermal comfort or comfort cooling;

*Amendment*

F. whereas architecture, urban planning, ***location-dependent heat flux density*** and the diversity of European climate zones must be taken into account in the planning of energy-efficient, low-emission public and residential buildings with maximum thermal comfort or comfort cooling;

Or. pl

**Amendment 64**

**Edward Czesak**

**Motion for a resolution**

**Recital F**

*Motion for a resolution*

F. whereas architecture, urban planning and the diversity of European climate zones must be taken into account in the planning of energy-efficient, low-emission public and residential buildings with maximum thermal comfort or comfort cooling;

*Amendment*

F. whereas architecture, urban planning, ***density of heat demand*** and the diversity of European climate zones must be taken into account in the planning of energy-efficient, low-emission public and residential buildings with maximum thermal comfort or comfort cooling;

Or. en

**Amendment 65**

**Jerzy Buzek**

**Motion for a resolution**

**Recital F**

*Motion for a resolution*

F. whereas architecture, urban planning and the diversity of European climate zones must be taken into account in the planning of energy-efficient, low-emission public and residential buildings with maximum thermal comfort or comfort cooling;

*Amendment*

F. whereas architecture, urban planning, ***density of heat demand*** and the diversity of European climate zones must be taken into account in the planning of energy-efficient, low-emission public and residential buildings with maximum thermal comfort or comfort cooling;

Or. en

**Amendment 66**

**Kathleen Van Brempt, Dan Nica, Flavio Zanonato, Theresa Griffin, Miroslav Poche, Jeppe Kofod, Edouard Martin, Miapetra Kumpula-Natri, Martina Werner**

**Motion for a resolution**

**Recital F a (new)**

*Motion for a resolution*

*Amendment*

***Fa. points out the huge untapped potential of using waste heat and district heating systems, given that the excess heat available in Europe surmounts the total heat demand in all European buildings***

*and the fact that 50% of the total EU heat demand can be supplied via district heating;*

Or. en

**Amendment 67**

**José Blanco López, Soledad Cabezón Ruiz**

**Motion for a resolution**

**Recital F a (new)**

*Motion for a resolution*

*Amendment*

*Fa. whereas a significant proportion of Europe's population live in areas, especially cities, where exceedances of air quality standards occur;*

Or. en

**Amendment 68**

**Dario Tamburrano, David Borrelli**

**Motion for a resolution**

**Recital G**

*Motion for a resolution*

*Amendment*

G. whereas natural gas is becoming *ever* more important in heating *given that the chemical energy stored in it can be converted into heat energy highly efficiently;*

G. whereas *gas (especially natural gas and biomethane, due to the justified objections that a substantial part of the population and the scientific community raises against the extraction and the use of shale gas)* is becoming more important in heating *thanks to their efficient combustion and their comparatively easy distribution and storage and that emissions of harmful substances related to the combustion of other fossil fuels other than gas can be reduced;*

Or. en

#### **Amendment 69**

**Morten Helveg Petersen, Carolina Punset, Gerben-Jan Gerbrandy, Fredrick Federley, Lieve Wierinck**

#### **Motion for a resolution**

##### **Recital G**

###### *Motion for a resolution*

G. whereas natural gas *is becoming ever more important in heating given that the chemical energy stored in it can be converted into heat energy highly efficiently;*

###### *Amendment*

G. whereas *heating and cooling is expected to remain the biggest source of energy demand in Europe, with the majority of this demand being met by natural gas; Stresses that Europe's heating and cooling sector must therefore be decarbonised and in the interim made dramatically less dependent on the use of imported fossil fuels in favour of domestically available, renewable resources in order to meet Europe's environmental and energy security objectives;*

Or. en

#### **Amendment 70**

**Algirdas Saudargas, Jerzy Buzek, Krišjānis Kariņš, Seán Kelly, Pilar del Castillo Vera**

#### **Motion for a resolution**

##### **Recital G**

###### *Motion for a resolution*

G. whereas natural gas *is becoming ever more important in heating given that the chemical energy stored in it can be converted into heat energy highly efficiently;*

###### *Amendment*

G. whereas natural gas *and oil is widely used for heating in Europe and its use could be optimised through highly efficient energy storage;*

Or. en

#### **Amendment 71**



**Benedek Jávor**  
on behalf of the Verts/ALE Group

**Motion for a resolution**  
**Recital G**

*Motion for a resolution*

G. whereas natural gas *is* becoming *ever more important in heating given that the chemical energy stored in it can be converted into heat energy highly efficiently*;

*Amendment*

G. whereas *new investments in* natural gas *infrastructure risk* becoming *stranded assets and will not be compatible with the EU's long-term security of supply and its energy and climate goals*; *whereas every 1% increase in energy savings reduces gas imports by 2.6%*;

Or. en

**Amendment 72**  
**Cornelia Ernst**

**Motion for a resolution**  
**Recital G**

*Motion for a resolution*

G. whereas *natural gas is becoming ever more important* in heating *given that the chemical energy stored in it can be converted into heat energy highly efficiently*;

*Amendment*

G. whereas *the importance given to natural gas* in heating *today runs counter to the necessary decrease of energy demand in the EU and the need to fulfil the EU's decarbonisation objectives*;

Or. en

**Amendment 73**  
**Jeppe Kofod**

**Motion for a resolution**  
**Recital G**

*Motion for a resolution*

G. whereas natural gas is becoming ever more *important* in heating given that the chemical energy stored in it can be

*Amendment*

G. whereas natural gas is becoming ever more *prevalent* in heating given that the chemical energy stored in it can be

converted into heat energy highly efficiently;

converted into heat energy highly efficiently; *whereas continued reliance on fossil fuels runs counter to the EU's climate and energy obligations and decarbonisation goals;*

Or. en

**Amendment 74**  
**Barbara Kappel**

**Motion for a resolution**  
**Recital G**

*Motion for a resolution*

G. whereas natural gas is becoming ever more important in heating given that the chemical energy stored in it can be converted into heat energy highly efficiently;

*Amendment*

G. whereas natural gas is becoming ever more important in heating given that the chemical energy stored in it can be converted into heat energy highly *cost* efficiently *as well as can be stored and transported easily within the European infrastructure;*

Or. en

**Amendment 75**  
**András Gyürk**

**Motion for a resolution**  
**Recital G**

*Motion for a resolution*

G. whereas natural gas *is becoming ever more* important in heating given that the chemical energy stored in it can be converted into heat energy highly efficiently;

*Amendment*

G. whereas natural gas *and in rural areas LPG has been playing and will play an* important *role* in heating given that the chemical energy stored in it can be converted into heat energy highly efficiently;

Or. en

**Amendment 76**  
**Anneleen Van Bossuyt**

**Motion for a resolution**  
**Recital G**

*Motion for a resolution*

G. whereas natural gas is ***becoming ever more*** important in heating given ***that*** the chemical energy stored in it can be converted into heat energy highly efficiently;

*Amendment*

G. whereas natural gas is important in heating given the chemical energy stored in it can be converted into heat energy highly efficiently;

Or. en

**Amendment 77**  
**Patrizia Toia**

**Motion for a resolution**  
**Recital G**

*Motion for a resolution*

G. whereas natural gas ***is*** becoming ever more important in heating given that the chemical energy stored in ***it*** can be converted into heat energy highly efficiently;

*Amendment*

G. whereas natural gas ***and LPG are*** becoming ever more important in heating given that the chemical energy stored in ***them*** can be converted into heat energy highly efficiently ***and that their combustion produces low CO2 and air pollutant emissions;***

Or. en

**Amendment 78**  
**Françoise Grossetête, Anne Sander**

**Motion for a resolution**  
**Recital G**

*Motion for a resolution*

G. whereas natural gas ***is*** becoming ever more important in heating given that the chemical energy stored in ***it*** can be

*Amendment*

G. whereas natural gas ***and biomethane are*** becoming ever more important in heating given that ***they are***

converted into heat energy highly efficiently;

*easy to store and* the chemical energy stored in *them* can be converted into heat energy highly efficiently;

Or. fr

**Amendment 79**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Recital G a (new)**

*Motion for a resolution*

*Amendment*

*Ga. whereas local authorities, regions and cities, due to their suitable scale and closeness to the energy source, are key actors in deploying sustainable and efficient heating and cooling solutions, such as through district heating and cooling systems, that provide clean renewable and affordable energy to citizens;*

Or. en

**Amendment 80**

**Barbara Kappel**

**Motion for a resolution**

**Recital G a (new)**

*Motion for a resolution*

*Amendment*

*Ga. whereas there is a considerable variation of circumstances among the Member States concerning demand profiles, infrastructure capacities, environment and climate, availability of energy sources, purchasing power, buildings, and access to finance;*

Or. en

**Amendment 81**  
**Dario Tamburrano, David Borrelli**

**Motion for a resolution**  
**Recital G a (new)**

*Motion for a resolution*

*Amendment*

***Ga. highlights that the ongoing energy transition implies that the EU moves away from a fossil-fuel based and centralised energy system towards one which is capillary distributed across the whole territory, dynamic and scalable, future-oriented and renewables-based;***

Or. en

**Amendment 82**  
**Adam Gierek**

**Motion for a resolution**  
**Recital G a (new)**

*Motion for a resolution*

*Amendment*

***Ga. whereas there are currently major differences in annual expenditure on energy for heating purposes between the various climate zones in Europe, with an average of 60 to 90 kWh/m<sup>2</sup> in southern European countries and 175 to 235 kWh/m<sup>2</sup> in central and northern Europe;***

Or. pl

**Amendment 83**  
**Bronis Ropė, Valentinas Mazuronis**

**Motion for a resolution**  
**Recital G a (new)**

*Motion for a resolution*

*Amendment*

***Ga. whereas the deployment of effective heating and cooling solutions has significant potential to stimulate the development of Europe's industrial and service sectors, particularly in the renewable energy sector, and the creation of higher value added in remote and rural regions;***

Or. It

**Amendment 84**

**Soledad Cabezón Ruiz, José Blanco López**

**Motion for a resolution**

**Recital G a (new)**

*Motion for a resolution*

*Amendment*

***Ga. whereas energy has become a social asset, access to which must be guaranteed; whereas, however, not all citizens can gain access to energy, given that there are more than 25 million people in Europe who have serious difficulties in doing so;***

Or. es

**Amendment 85**

**Edward Czesak**

**Motion for a resolution**

**Recital G a (new)**

*Motion for a resolution*

*Amendment*

***Ga. whereas energy efficiency policies should focus on the most cost-effective ways to improve buildings performance by reducing heat demands and/or connecting buildings to high-efficiency alternatives;***

**Amendment 86**  
**Patrizia Toia**

**Motion for a resolution**  
**Recital G a (new)**

*Motion for a resolution*

*Amendment*

*Ga. whereas the low level of awareness among consumers concerning the lack of efficiency of heating systems is one of the factors having the greatest impact on energy bills;*

Or. it

**Amendment 87**  
**Louis Michel**

**Motion for a resolution**  
**Recital G a (new)**

*Motion for a resolution*

*Amendment*

*Ga. whereas homes that have good thermal insulation are of benefit both to the environment and to the energy bills of the user;*

Or. nl

**Amendment 88**  
**Algirdas Saudargas, Jerzy Buzek**

**Motion for a resolution**  
**Recital G a (new)**

*Motion for a resolution*

*Amendment*

*Ga. whereas the local and regional authorities play an important role in*

*planning, implementing heating and cooling infrastructure and in consulting consumers;*

Or. en

**Amendment 89**  
**Anneleen Van Bossuyt**

**Motion for a resolution**  
**Recital G a (new)**

*Motion for a resolution*

*Amendment*

*Ga. whereas priority should be given to efficiency in order to reduce overall energy demand which will in turn reduce the need for overinvestment in renewable energy;*

Or. en

**Amendment 90**  
**Patrizia Toia, Mercedes Bresso**

**Motion for a resolution**  
**Recital G a (new)**

*Motion for a resolution*

*Amendment*

*Ga. whereas 72% of the heating and cooling demand of single family houses is consumed in rural and intermediate areas;*

Or. en

**Amendment 91**  
**Dario Tamburrano, David Borrelli**

**Motion for a resolution**  
**Recital G b (new)**



*Motion for a resolution*

*Amendment*

***Gb.*** *whereas the combustion of gas, compared with other fossil fuels, releases a substantial lesser amount of health-damaging and environment-damaging substances, although close attention must be paid to the comprehensive losses of gas throughout the cycle of extraction, storage and distribution, due to the strong greenhouse effect of methane;*

Or. en

**Amendment 92**

**Patrizia Toia**

**Motion for a resolution**

**Recital G b (new)**

*Motion for a resolution*

*Amendment*

***Gb.*** *whereas nature-based solutions, such as well-designed street vegetation, green roofs and walls providing insulation and shade to buildings reduce energy demand by limiting the need for heating and cooling;*

Or. it

**Amendment 93**

**Soledad Cabezón Ruiz, José Blanco López**

**Motion for a resolution**

**Recital G b (new)**

*Motion for a resolution*

*Amendment*

***Gb.*** *whereas the energy poverty affecting a great many European citizens is preventing them from making use of heating and/or cooling, possibly to the*

*point of affecting their health;*

Or. es

**Amendment 94**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Recital G b (new)**

*Motion for a resolution*

*Amendment*

***Gb. whereas 85% of the energy consumed in buildings is used for space heating and hot water production and 45 % of the heating and cooling in the EU is used in the residential sector;***

Or. en

**Amendment 95**

**Algirdas Saudargas, Jerzy Buzek, Pilar del Castillo Vera**

**Motion for a resolution**

**Recital G b (new)**

*Motion for a resolution*

*Amendment*

***Gb. whereas industry in cooperation with local authorities has an important role to play in the better use of wasted heat and cool;***

Or. en

**Amendment 96**

**Patrizia Toia**

**Motion for a resolution**

**Recital G c (new)**

*Motion for a resolution*

*Amendment*

***Gc. whereas, on average, Europeans spend 6% of their consumption expenditure on heating and cooling and 11% cannot afford to keep their homes warm enough in winter;***

Or. it

**Amendment 97**

**Algirdas Saudargas, Jerzy Buzek, Pilar del Castillo Vera, Bendt Bendtsen, Seán Kelly**

**Motion for a resolution**

**Recital G c (new)**

*Motion for a resolution*

*Amendment*

***Gc. whereas cooling sector is still in need to be better analysed and taken into account in the Commission strategy and Member States policies;***

Or. en

**Amendment 98**

**Patrizia Toia**

**Motion for a resolution**

**Recital G d (new)**

*Motion for a resolution*

*Amendment*

***Gd. Considers it important to promote studies on energy saving in historic buildings in order to optimise energy performance where possible, whilst ensuring that the cultural heritage is protected and preserved;***

Or. it

**Amendment 99**

**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**

**Motion for a resolution**

**Paragraph -1 (new)**

*Motion for a resolution*

*Amendment*

***-1. Welcomes the European Commission's Communication "an EU Strategy on Heating and Cooling" as an important first step in developing appropriate European and national regulation to reduce GHG emissions from the heating and cooling sector and increasing security of supply; Fully endorses the European Commission's ambition of recognising and exploiting the synergies between the electricity and heating sector;***

Or. en

**Amendment 100**

**Algirdas Saudargas, Jerzy Buzek, Pilar del Castillo Vera**

**Motion for a resolution**

**Paragraph -1 (new)**

*Motion for a resolution*

*Amendment*

***-1. Welcomes the Commission communication on EU strategy for heating and cooling, which for the first time gives the holistic approach on heating and cooling in Europe's energy sector and identifies priority areas of action; calls on the Commission to consider heating and cooling sectors as part of European energy market design;***

Or. en

**Amendment 101**

**Kathleen Van Brempt, Dan Nica, Miriam Dalli, Miroslav Poche, Jeppe Kofod, Theresa Griffin, Edouard Martin, Flavio Zanonato, Miapetra Kumpula-Natri, Martina Werner**

**Motion for a resolution**

**Paragraph -1 (new)**

*Motion for a resolution*

*Amendment*

**-1. Points out the necessity to take along specific measures for heating and cooling when revising the energy efficiency directive (2012/27/EU) and the renewable energy directive (2009/28/EC) as well as the energy performance of buildings directive (2010/31/EU);**

Or. en

**Amendment 102**

**Soledad Cabezón Ruiz, José Blanco López, Simona Bonafè**

**Motion for a resolution**

**Paragraph -1 (new)**

*Motion for a resolution*

*Amendment*

**-1. Considers that the strategy on heating and cooling must allow in the same way for both of these necessities, taking into account that Europe has different climate zones and that needs in terms of energy use differ accordingly;**

Or. es

**Amendment 103**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Paragraph -1 (new)**

*Motion for a resolution*

*Amendment*

**-1. Stresses that improved energy efficiency in buildings is of paramount importance in reducing CO2 emissions, improving energy security, reducing energy poverty and boosting our economy;**

Or. en

**Amendment 104**

**Algirdas Saudargas, Jerzy Buzek, Seán Kelly, András Gyürk, Pilar del Castillo Vera, Bendt Bendtsen**

**Motion for a resolution  
Paragraph -1 a (new)**

*Motion for a resolution*

*Amendment*

**-1a. Underlines that strategy shall prioritise sustainable and cost efficient solutions which will enable Member states to reach EU climate and energy policy goals; Notes that Member states heating and cooling sectors are very diverse due to their energy mix, climatic conditions, the efficiency of the building stock or industry intensity therefore flexibility in choosing adequate strategy solutions shall be ensured;**

Or. en

**Amendment 105**

**Kathleen Van Brempt, Flavio Zanonato, Miroslav Poche, Theresa Griffin, Edouard Martin, Jeppe Kofod, Miapetra Kumpula-Natri, Martina Werner**

**Motion for a resolution  
Paragraph -1 a (new)**

*Motion for a resolution*

*Amendment*

**-1a. Calls for specific sustainable heating and cooling strategies to be developed at national level, giving special**

*attention to combined heat and power, cogeneration, district heating and cooling preferably based on renewables, as is stated in art 14 of the EED (2012/27/EU);*

Or. en

**Amendment 106**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Paragraph -1 a (new)**

*Motion for a resolution*

*Amendment*

*-1a. Considers that energy efficiency should be treated as an energy source in its own right when considering heating and cooling;*

Or. en

**Amendment 107**

**Kathleen Van Brempt, Edouard Martin, Theresa Griffin, Jeppe Kofod, Miroslav Poche, Martina Werner**

**Motion for a resolution**

**Paragraph -1 b (new)**

*Motion for a resolution*

*Amendment*

*-1b. When it comes to heating and cooling, points out the importance of respecting the principles of energy efficiency first and the trias energetica (reduction of demand, utilisation of renewables, optimization of fossil fuel systems) and acting accordingly when making policy and investment decisions;*

Or. en

**Amendment 108**

**Kathleen Van Brempt, Jeppe Kofod, Miroslav Poche, Theresa Griffin, Edouard Martin, Martina Werner**

**Motion for a resolution**

**Paragraph -1 c (new)**

*Motion for a resolution*

*Amendment*

***-1c. Stresses that energy efficiency measures should be given priority to, or at least treated on the same footage with, generating capacity when deciding on infrastructural and heating and cooling investments;***

Or. en

**Amendment 109**

**Kathleen Van Brempt, Theresa Griffin, Edouard Martin, Jeppe Kofod, Miroslav Poche, Martina Werner**

**Motion for a resolution**

**Paragraph -1 d (new)**

*Motion for a resolution*

*Amendment*

***-1d. Points out that improving the thermal efficiency of buildings by, amongst others, insulating, can reduce the energy demand in a building up to 70% according to studies; therefore, the optimal first step is often to reduce the energy and heating and cooling demand up to the cost-optimal level, before or combined with optimizing the heating and cooling systems, as the cheapest and most sustainable form of energy is still the one that is not used;***

Or. en

**Amendment 110**

**Benedek Jávor**



on behalf of the Verts/ALE Group

## Motion for a resolution

### Paragraph 1

#### *Motion for a resolution*

1. *Notes that the efficiency of extracting and using energy from various sources, discharging energy (cooling) and preventing energy from flowing from areas of a higher temperature to areas of a lower temperature, using thermally insulated partitions that pose maximum resistance to that flow, are fundamental elements in the EU's heating and cooling strategy;*

#### *Amendment*

1. *Welcomes the Commission's communication entitled 'An EU Strategy on Heating and Cooling' emphasising the need for phasing-out fossil fuels, which are still accounting for three quarter of primary energy supply in the sector; acknowledges that making full use of energy efficiency measures – our first fuel – and of the 'energy efficiency first principle' will lead to an overall reduction of our energy consumption which will allow renewable energy sources (sustainable biomass, geothermal, aerothermal, solar thermal and renewable electricity) to fully remove the need for fossil fuels in heating and cooling;*

Or. en

## Amendment 111

Cornelia Ernst

## Motion for a resolution

### Paragraph 1

#### *Motion for a resolution*

1. Notes that *the* efficiency of extracting and using energy from various sources, discharging energy (cooling) and preventing energy from flowing from areas of a higher temperature to areas of a lower temperature, using thermally insulated partitions that pose maximum resistance to that flow, are fundamental elements in the EU's heating and cooling strategy;

#### *Amendment*

1. Notes that *high* efficiency, *low-carbon intensity and renewable character* of energy used and extracted from various sources should be the main drivers of the EU's heating and cooling strategy; calls on the Commission and the Member States to develop consistent supportive regulatory and financial frameworks;

Or. en

## Amendment 112

Algirdas Saudargas, Jerzy Buzek, Bendt Bendtsen, Seán Kelly

### Motion for a resolution

#### Paragraph 1

##### *Motion for a resolution*

1. Notes that the efficiency of extracting and using energy from various sources, ***discharging energy (cooling) and preventing energy from flowing from areas of a higher temperature to areas of a lower temperature, using thermally insulated partitions that pose maximum resistance to that flow***, are fundamental elements in the EU's heating and cooling strategy;

##### *Amendment*

1. Notes that the ***high*** efficiency of extracting and using energy from various sources, ***performant thermal insulation and use of renewable energy sources and recovered heat*** are fundamental elements in the EU's heating and cooling strategy;

Or. en

## Amendment 113

Adam Gierek

### Motion for a resolution

#### Paragraph 1

##### *Motion for a resolution*

1. Notes that the efficiency of extracting and using energy from various sources, discharging energy (cooling) and preventing energy from flowing from areas of a higher temperature to areas of a lower temperature, using thermally insulated partitions that pose maximum resistance to that flow, are fundamental ***elements*** in the EU's heating and cooling ***strategy***;

##### *Amendment*

1. Notes that the efficiency of extracting and using energy from various sources, discharging energy (cooling) and preventing energy from flowing from areas of a higher temperature to areas of a lower temperature, using thermally insulated partitions that pose maximum resistance to that flow, are ***a*** fundamental ***priority*** in the EU's ***strategy for using the best possible*** heating and cooling ***technologies***;

Or. pl

**Amendment 114**  
**Edward Czesak**

**Motion for a resolution**  
**Paragraph 1 a (new)**

*Motion for a resolution*

*Amendment*

*1a. Welcomes the Strategy that recognizes the need to adopt a common European approach on heat with the objective to transform the current shape of the heat market, dominated by on-site individual fossil-fuels boilers, towards high efficiency heating solutions which increase energy security and facilitate cost-effective achievement of the EU climate and energy objectives;*

Or. en

**Amendment 115**  
**Dario Tamburrano, David Borrelli**

**Motion for a resolution**  
**Paragraph 1 a (new)**

*Motion for a resolution*

*Amendment*

*1a. Underlines that energy efficiency, considered both as a first fuel and as an essential infrastructure, is a major driving force to reduce the EU's import dependency and its overall external energy bill and to increase EU energy and geopolitical independence; reminds to this respect how every additional 1% increase in energy savings cuts gas imports by 2,6%;*

Or. en

**Amendment 116**  
**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Paragraph 1 a (new)**

*Motion for a resolution*

*Amendment*

*1a. Regrets the slow progress for renewable use in heating and cooling; stresses the importance of avoiding the locking-in of technologies in compatible with the 1.5°C goal of the Paris Agreement and hence urges the immediate phasing-out of subsidies and other -direct and indirect- incentives for fossil-based heating and cooling technology;*

Or. en

**Amendment 117**

**Françoise Grossetête, Anne Sander**

**Motion for a resolution**

**Paragraph 1 a (new)**

*Motion for a resolution*

*Amendment*

*1a. Is of the opinion that demand for heating will remain an essential component of the energy system in the future; calls on the Commission to reduce the demand for buildings and to link the remaining demand to such sources as might be sustainable in the particular local context, proceeding from a cost-effectiveness analysis;*

Or. fr

**Amendment 118**

**Barbara Kappel**

**Motion for a resolution**

**Paragraph 1 a (new)**

*Motion for a resolution*

*Amendment*

*1a. Believes that due to the variation of circumstances among Member States, it is necessary to keep open a variety of options so as to decarbonise heating, rather than focusing on a small number of options as this would limit competition, innovation, consumer choice and affordability;*

Or. en

**Amendment 119**

**Jeppe Kofod**

**Motion for a resolution**

**Paragraph 1 a (new)**

*Motion for a resolution*

*Amendment*

*1a. Welcomes the Communication from the European Commission on an EU Strategy on Heating and Cooling;*

Or. en

**Amendment 120**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Paragraph 1 b (new)**

*Motion for a resolution*

*Amendment*

*1b. Calls on the Commission to fully integrate its Heating and Cooling Strategy into all forthcoming energy legislative proposals, especially its Market Design initiative, the Energy Efficiency Directive, the Energy Performance of Buildings Directive and the Renewable Energy*

*Directive, as well as into the guidance to Member States in the implementation of the existing ones; calls on the Commission to assess how this can be taken into account in energy planning;*

Or. en

**Amendment 121**  
**Edward Czesak**

**Motion for a resolution**  
**Paragraph 1 b (new)**

*Motion for a resolution*

*Amendment*

*Ib. Supports the Commission's analysis formulated in the Heat strategy that heating demands will not disappear, hence the need to develop policies that tap the full potential for the use of recovered heat (cogeneration and industrial heat) and allow a cost-effective development of DH networks capable of bringing renewable energy sources into urban areas, where population and energy demands are concentrated;*

Or. en

**Amendment 122**  
**Dario Tamburrano, David Borrelli**

**Motion for a resolution**  
**Paragraph 1 b (new)**

*Motion for a resolution*

*Amendment*

*Ib. Calls on the Member States to fully implement and enforce existing EU legislation in the field of energy efficiency and renewable energy and calls on the European commission to further promote synergies between the ecodesign directive*

*and the energy labelling regulation,  
especially regarding heating and cooling  
appliances;*

Or. en

**Amendment 123**  
**Barbara Kappel**

**Motion for a resolution**  
**Paragraph 1 b (new)**

*Motion for a resolution*

*Amendment*

***1b. Supports that conclusion in the heating and cooling strategy that "consumers must be at the centre of this strategy" by enabling them to use a variety of technologies and solutions so as to help them shift to more sustainable consumption patterns and generate savings;***

Or. en

**Amendment 124**  
**Dario Tamburrano, David Borrelli**

**Motion for a resolution**  
**Paragraph 1 c (new)**

*Motion for a resolution*

*Amendment*

***1c. Remembers that the "energy efficiency first" principle is a priority for the EU energy policy and must be applied by reducing energy demand especially in existing and future buildings, both residential and non-residential, as the key strategy for achieving a successful transition towards a renewable, secure, resilient and smart heating and cooling system;***

**Amendment 125**  
**Jeppe Kofod**

**Motion for a resolution**  
**Paragraph 2**

*Motion for a resolution*

*Amendment*

**2. Takes the view that the shorter the chain by which primary energy is converted into other forms to generate usable heat, the higher the energy efficiency;** **deleted**

Or. en

**Amendment 126**  
**Benedek Jávor**  
on behalf of the Verts/ALE Group

**Motion for a resolution**  
**Paragraph 2**

*Motion for a resolution*

*Amendment*

**2. Takes the view that the shorter the chain by which primary energy is converted into other forms to generate usable heat, the higher the energy efficiency;**

**2. Calls on the Commission to exploit more thoroughly synergies between renewable heating and cooling and energy efficiency measures through comprehensive measures, such as the 'Smart Finance for Smart Buildings Initiative' promoting a greater up-take of energy efficiency measures in combination with renewables in the building sector;**

Or. en

**Amendment 127**  
**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**



**Motion for a resolution**  
**Paragraph 2**

*Motion for a resolution*

2. Takes the view that the shorter the chain by which primary energy is converted into other forms to generate usable heat, the higher the energy efficiency;

*Amendment*

2. ***Notes that a more decentralised and flexible energy system, with power and heat sources being placed closer to the point of consumption, can facilitate decentralised energy generation and therefore empowers consumers and communities to be more involved in the energy market and control their own energy use as well as becoming active participants in demand side response;*** Takes the view that the shorter the chain by which primary energy is converted into other forms to generate usable heat, the higher the energy efficiency ***of the energy system overall; Recognizes moreover that such an approach diminishes transmission and distribution losses, improves the resilience of energy infrastructure, and simultaneously provides local business opportunities for small and medium-sized enterprises;***

Or. en

**Amendment 128**  
**Barbara Kappel**

**Motion for a resolution**  
**Paragraph 2**

*Motion for a resolution*

2. Takes the view that the shorter the chain by which primary energy is converted into other forms to generate usable heat, the higher the energy efficiency;

*Amendment*

2. Takes the view that the shorter the chain, ***supported by modern and highly efficient appliances,*** by which primary energy is converted into other forms to generate usable heat, the higher the energy efficiency;

Or. en

**Amendment 129**  
**Patrizia Toia**

**Motion for a resolution**  
**Paragraph 2**

*Motion for a resolution*

2. Takes the view that the shorter the chain by which primary energy is converted into other forms to generate usable heat, the higher the energy efficiency;

*Amendment*

2. Takes the view that the shorter the chain by which primary energy is converted into other forms to generate usable heat ***or collected among local resources***, the higher the energy efficiency;

Or. en

**Amendment 130**  
**Miroslav Poche, Kathleen Van Brempt**

**Motion for a resolution**  
**Paragraph 2 a (new)**

*Motion for a resolution*

*Amendment*

***2a. Underlines that 85% of the energy consumption within a building is required for space heating and domestic hot water and that it is therefore necessary to enable consumers to accelerate the modernisation of their old and inefficient heating systems in Europe in order to deliver at least 20% energy efficiency gains with available technologies, including renewable heating systems;***

Or. en

**Amendment 131**  
**Benedek Jávor**  
on behalf of the Verts/ALE Group

**Motion for a resolution**

### Paragraph 3

#### *Motion for a resolution*

3. Considers that domestic appliances (washing machines, dishwashers, etc.) should be designed in such a way that they can use the hot water supply at the place where they are installed;

#### *Amendment*

3. Considers that domestic appliances (washing machines, dishwashers, etc.) should be ***the most energy efficient and*** designed in such a way that they can use the hot water supply at the place where they are installed; ***accordingly eco-design minimum requirements as well as strong energy labelling policies should be updated on a regular basis, and revised upwards;***

Or. en

### Amendment 132

Morten Helveg Petersen, Carolina Punset, Fredrick Federley, Lieve Wierinck

#### **Motion for a resolution**

#### **Paragraph 3**

#### *Motion for a resolution*

3. Considers that domestic appliances (washing machines, dishwashers, etc.) should be designed in such a way that they can use the hot water supply at the place where they are installed;

#### *Amendment*

3. ***Underlines the complementarities between ecodesign and energy labelling framework Directives, the Energy Efficiency Directive and the Energy Performance of Buildings Directive in reducing heat and cooling consumption; Calls on the Commission to continue develop ecodesign and energy labelling requirements in order to achieve additional energy savings and support EU competitiveness; Highlights the potential for significant additional energy savings through improvements at product, component system levels;*** Considers that domestic appliances (washing machines, dishwashers, etc.) should be designed in such a way that they can use the hot water supply at the place where they are installed;

Or. en

### **Amendment 133**

**Dario Tamburrano, David Borrelli**

#### **Motion for a resolution**

##### **Paragraph 3**

###### *Motion for a resolution*

3. Considers that domestic appliances (washing machines, dishwashers, etc.) should be designed in such a way that they can use the hot water supply at the place where they are installed;

###### *Amendment*

3. Considers that domestic appliances (washing machines, dishwashers, etc.) should be designed in such a way that they can use the hot water supply at the place where they are installed; ***highlights, within this context, the importance of combining the most advanced technologies with a smart energy management, especially in a connected world where the appliance can easily adapt to weather conditions and electricity price signals and contribute to the stabilisation of the grid;***

Or. en

### **Amendment 134**

**Nikolay Barekov**

#### **Motion for a resolution**

##### **Paragraph 3**

###### *Motion for a resolution*

3. Considers that domestic appliances (***washing machines, dishwashers, etc.***) should be designed in such a way that they can use the hot water supply at the place where they are installed;

###### *Amendment*

3. Considers that domestic appliances should be designed in such a way that they can use the hot water supply at the place where they are installed;

Or. bg

### **Amendment 135**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**  
**Paragraph 3 a (new)**

*Motion for a resolution*

*Amendment*

**3a. Requests the Member States to fully implement the current EED and the EPBD and urges the Commission to accompany Member States in the implementation of the 'Nearly Zero Energy Buildings (nZEB)' that will be the rule as of 2021 for all new buildings; calls on the Member States to fully implement their long-term renovation strategies taking into account that similar standards should be progressively applied to existing buildings in order to mobilise sufficient investment for the modernisation of their building stock and to achieve a nearly-zero energy building stock by 2050 at EU level;**

Or. en

**Amendment 136**

**Algirdas Saudargas, Jerzy Buzek, Bendt Bendtsen, Seán Kelly, András Gyürk, Pilar del Castillo Vera**

**Motion for a resolution**  
**Paragraph 3 a (new)**

*Motion for a resolution*

*Amendment*

**3a. Stresses that building sector has high potential in reducing energy demand and CO2 emissions; underlines that further efforts are needed to increase building renovation rate; notes that attractive financial incentives, availability of highly competent experts at various levels, exchange and promotion of best practices are necessary to achieve this;**

Or. en

**Amendment 137**  
**Dario Tamburrano, David Borrelli**

**Motion for a resolution**  
**Paragraph 3 a (new)**

*Motion for a resolution*

*Amendment*

**3a. Notes that smart buildings must become a core part of the energy system in terms of energy production, consumption, storage and management as they enable to reduce peak energy demand and therefore they play a major role in the transition towards a more resilient, stable but flexible energy network;**

Or. en

**Amendment 138**  
**Anneleen Van Bossuyt**

**Motion for a resolution**  
**Paragraph 3 a (new)**

*Motion for a resolution*

*Amendment*

**3a. Underlines that 85% of the energy consumption within a building is used for space heating and domestic hot water in Europe, therefore it is crucial to enable consumers to accelerate the modernisation of their old and inefficient heating systems;**

Or. en

**Amendment 139**  
**Dario Tamburrano, David Borrelli**

**Motion for a resolution**

**Paragraph 3 b (new)**

*Motion for a resolution*

*Amendment*

**3b.** *Underlines that in a context where regulatory stability is ensured, owners, tenants and managers are highly motivated to invest in strongly reducing the energy consumption of buildings; calls, in this respect, to bring the EU building stock to nearly-zero-energy buildings level by 2050, setting ambitious intermediate milestones in 2030 and 2040;*

Or. en

**Amendment 140**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Paragraph 3 b (new)**

*Motion for a resolution*

*Amendment*

**3b.** *Recalls that nZEB should be primarily based on better insulation techniques and smart buildings management making it possible to reduce the absolute energy consumption of buildings to nearly-zero, followed by on-site or near-site energy generation from renewable sources in order to meet residual demand;*

Or. en

**Amendment 141**

**Anneleen Van Bossuyt**

**Motion for a resolution**

**Paragraph 3 b (new)**

*Motion for a resolution*

*Amendment*

**3b. Considers that a stumbling block to improving the efficiency of the households in the EU is the lack of awareness among consumers about the efficiency of their heating systems;**

Or. en

**Amendment 142**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Paragraph 3 c (new)**

*Motion for a resolution*

*Amendment*

**3c. Stresses the need for enabling consumers to accelerate the modernisation of their old and inefficient heating systems in Europe in order to deliver energy efficiency gains with available technologies, including district heating systems fuelled by renewable energy sources; calls on the European Commission to bring forward concrete proposals to increase the modernisation rate of individual and district heating systems installed in existing buildings;**

Or. en

**Amendment 143**

**Dario Tamburrano, David Borrelli**

**Motion for a resolution**

**Paragraph 3 c (new)**

*Motion for a resolution*

*Amendment*

**3c. Calls on the European commission to propose a unified financial instrument for energy efficiency, in order to coordinate all existing EU funds towards**



*the realisation of the vision of a zero-energy-building stock by 2050; reminds to this respect the importance of extending the requirement in article 5 of the energy efficiency directive to all public buildings;*

Or. en

**Amendment 144**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Paragraph 3 d (new)**

*Motion for a resolution*

*Amendment*

*3d. Stresses the need for a favourable framework for tenants and those living in multi-dwelling buildings, to enable them to also benefit from self-generation and consumption of renewable heating and cooling and energy efficiency measures thereby tackling the challenges of split incentives and sometimes impeding tenancy rules;*

Or. en

**Amendment 145**

**Algirdas Saudargas, Jerzy Buzek**

**Motion for a resolution**

**Paragraph 4**

*Motion for a resolution*

*Amendment*

4. Highlights *the fundamental role* of RES, *and in particular photovoltaic cells and solar panels, in the heating of water and the provision of thermal comfort in buildings, in conjunction with thermal storage facilities that can be used at night;*

4. Highlights *that for the decarbonisation of buildings heating and cooling systems, the integration of RES plays a fundamental role ; stresses that a wide range of renewable heating and cooling solutions are available and competing on a market such as*

*photovoltaic cells, solar panels, geothermal, biomass; Calls on the Member states to provide right incentives for their promotion and take up;*

Or. en

#### **Amendment 146**

**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**

#### **Motion for a resolution**

##### **Paragraph 4**

###### *Motion for a resolution*

4. Highlights the fundamental role of **RES, and** in particular photovoltaic cells and solar panels, in the heating of water and the provision of thermal comfort in buildings, in conjunction with thermal storage facilities that can be used at night;

###### *Amendment*

4. Highlights the fundamental role of **electricity based on renewables and heat recovery**, in particular photovoltaic cells and solar **thermal** panels, in the heating of water and the provision of thermal comfort in buildings, in conjunction with thermal storage facilities that can be used at night; **Stresses the increased flexibility of thermal infrastructure and storage in facilitating the integration of intermittent renewable sources by storing energy in the form of heat;**

Or. en

#### **Amendment 147**

**Bendt Bendtsen, Seán Kelly, Luděk Niedermayer**

#### **Motion for a resolution**

##### **Paragraph 4**

###### *Motion for a resolution*

4. Highlights the fundamental role of **RES, and in particular photovoltaic cells and solar panels, in the heating of water and the provision of** thermal comfort in buildings, **in conjunction with thermal**

###### *Amendment*

4. Highlights the fundamental role of **renewable energy technologies, including aero thermal, biomass, geothermal, solar thermal and cross cutting technologies and thermal storage facilities, in**

*storage facilities that can be used at night;*

*providing hot water and thermal comfort in buildings in a sustainable manner and in support of EU's climate and energy ambitions;*

Or. en

#### **Amendment 148**

**Cornelia Ernst**

#### **Motion for a resolution**

##### **Paragraph 4**

###### *Motion for a resolution*

4. Highlights the fundamental role of ***RES, and in particular photovoltaic cells and solar panels, in the heating of water and the provision of thermal comfort in buildings***, in conjunction with thermal storage facilities ***that can be used at night;***

###### *Amendment*

4. Highlights the fundamental role of ***aerothermal, biomass, geothermal, solar thermal and photovoltaic RES for hot water production and fulfilling of human thermal needs, provided high energy efficiency requirements are met***, in conjunction with thermal storage facilities;

Or. en

#### **Amendment 149**

**Benedek Jávor**

on behalf of the Verts/ALE Group

#### **Motion for a resolution**

##### **Paragraph 4**

###### *Motion for a resolution*

4. Highlights the fundamental role of ***RES, and in particular photovoltaic cells and solar panels***, in the heating of water and the provision of thermal comfort in buildings, in conjunction with thermal storage facilities that can be used ***at night;***

###### *Amendment*

4. Highlights the fundamental role, ***when combined with energy efficiency, of renewable heating and cooling (such as solar thermal, geothermal, aerothermal and sustainable biomass)***, in the heating of water and the provision of thermal comfort in buildings, ***if necessary*** in conjunction with thermal storage facilities that can be used ***for daily or seasonal balancing onsite or at district level;***

**Amendment 150**  
**Adam Gierek**

**Motion for a resolution**  
**Paragraph 4**

*Motion for a resolution*

4. Highlights the fundamental role of RES, and in particular photovoltaic cells and solar panels, in the heating of water **and** the provision of thermal comfort in buildings, in conjunction with thermal storage facilities **that can be used at night**;

*Amendment*

4. Highlights the fundamental role of RES, and in particular photovoltaic cells **linked up to batteries** and solar panels **used** in the heating of water, **in** the provision of thermal comfort in buildings (**heating and cooling**), in conjunction with thermal storage facilities **used for daily or seasonal balancing**;

Or. pl

**Amendment 151**  
**Martina Werner**

**Motion for a resolution**  
**Paragraph 4**

*Motion for a resolution*

4. Highlights the fundamental role of RES, **and in particular photovoltaic cells and solar panels, in the heating of water and the provision of thermal comfort in buildings**, in conjunction with thermal storage facilities **that can be used at night**;

*Amendment*

4. Highlights the fundamental role of RES, **particularly from solar collectors, biomass plants and heat pumps, which can be used very efficiently to heat buildings, produce process heat and heat service water, especially** in conjunction with **sufficiently large** thermal storage facilities;

Or. de

**Amendment 152**  
**Françoise Grossetête, Anne Sander**

**Motion for a resolution**

## Paragraph 4

### *Motion for a resolution*

4. Highlights the fundamental role of RES, and in particular photovoltaic cells and solar panels, in the heating of water and the provision of thermal comfort in buildings, in conjunction with thermal storage facilities that can be used at night;

### *Amendment*

4. Highlights the fundamental role of RES, and in particular **biomass combined with cogeneration**, photovoltaic cells, and solar panels, in the heating of water and the provision of thermal comfort in buildings, in conjunction with thermal storage facilities that can be used at night;

Or. fr

## Amendment 153

**Kathleen Van Brempt, Dan Nica, Miroslav Poche, Edouard Martin, Flavio Zanonato, Theresa Griffin**

### **Motion for a resolution**

#### **Paragraph 4**

### *Motion for a resolution*

4. Highlights the fundamental role of RES, **and in particular** photovoltaic cells and solar panels, in the heating of water and the provision of thermal comfort in buildings, in conjunction with thermal storage facilities **that can be used at night**;

### *Amendment*

4. Highlights the fundamental role of RES, **such as** photovoltaic cells and solar panels **and geothermal energy**, in the heating of water and the provision of thermal comfort in buildings **on a local or micro level**, in conjunction with thermal storage facilities;

Or. en

## Amendment 154

**Miapetra Kumpula-Natri**

### **Motion for a resolution**

#### **Paragraph 4**

### *Motion for a resolution*

4. Highlights the fundamental role of RES, **and in particular** photovoltaic cells and solar panels, in the heating of water and the provision of thermal comfort in

### *Amendment*

4. Highlights the fundamental role of RES, **such as biomass, geothermal, aerothermal**, photovoltaic cells and solar panels, in the heating of water and the

buildings, in conjunction with thermal storage facilities *that can be used at night*;

provision of thermal comfort in buildings, in conjunction with thermal storage facilities;

Or. en

**Amendment 155**  
**Louis Michel**

**Motion for a resolution**  
**Paragraph 4**

*Motion for a resolution*

4. Highlights the fundamental role of RES, *and in particular* photovoltaic *cells* and solar *panels*, in the heating of water and the provision of thermal comfort in buildings, in conjunction with thermal storage facilities that can be used at night;

*Amendment*

4. Highlights the fundamental role of RES, *such as* photovoltaic *solar panels* and solar *collectors*, in the heating of water and the provision of thermal comfort in buildings, in conjunction with thermal storage facilities that can be used at night;

Or. nl

**Amendment 156**  
**Morten Helveg Petersen, Carolina Punset, Fredrick Federley, Lieve Wierinck**

**Motion for a resolution**  
**Paragraph 4 a (new)**

*Motion for a resolution*

*Amendment*

**4a. *Highlights that district heating and cooling networks provide the possibility to significantly increase the flexibility and openness of the energy system through better integrating energy sources into the market; Underlines that such an integration can best be achieved by developing a regulatory framework that fosters demand side response, making best economic use of intermittent renewables such as wind and solar, harnessing the potential of waste heat and cool, and facilitating the participation of different energy sources in a transparent and competitive heating and cooling***

*market so as to avoid potential dominance of less sustainable technologies;  
Reiterates the importance of developing an open and transparent heating and cooling market which allows different technologies to compete, ensures a high standard of consumer protection and choice, and delivers cost effective decarbonisation;*

Or. en

**Amendment 157**

**Anne Sander, Françoise Grossetête**

**Motion for a resolution**

**Paragraph 4 a (new)**

*Motion for a resolution*

*Amendment*

*4a. Points to the economic potential and short-term profitability of energy efficiency and energy retrofitting solutions for non-residential buildings; calls on the Commission to encourage and promote investment in solutions making for smart building energy consumption management and to integrate electricity systems more effectively with heating and cooling systems;*

Or. fr

**Amendment 158**

**Seán Kelly, Bendt Bendtsen, Luděk Niedermayer**

**Motion for a resolution**

**Paragraph 4 a (new)**

*Motion for a resolution*

*Amendment*

*4a. Considers that issues surrounding energy security in the EU largely concern*

*the security of heat supply; considers, therefore, the diversification of sources for heating to be of utmost importance and calls on the Commission to explore ways to further support and accelerate the increased deployment of renewable heat technologies;*

Or. en

**Amendment 159**  
**Patrizia Toia**

**Motion for a resolution**  
**Paragraph 4 a (new)**

*Motion for a resolution*

*Amendment*

*4a. Highlights the crucial role of automation and control systems to serve the occupants of buildings better and to provide flexibility for the electricity system through reducing and shifting demand, and thermal storage;*

Or. it

**Amendment 160**  
**Miroslav Poche, Kathleen Van Brempt**

**Motion for a resolution**  
**Paragraph 4 a (new)**

*Motion for a resolution*

*Amendment*

*4a. Highlights that hybrid heating systems, which provide heat from two or more energy sources, can facilitate a growing role for renewable heating, in particular in existing buildings where hybrid heating systems can be introduced with limited refurbishment needs;*

Or. en



**Amendment 161**

**Fredrick Federley, Morten Helveg Petersen, Carolina Punset**

**Motion for a resolution**

**Paragraph 4 a (new)**

*Motion for a resolution*

*Amendment*

**4a. Stresses the importance of district energy networks as a particularly efficient and cost-effective means of delivering low carbon heating and cooling, and particularly points out the potential of biomass in this regard;**

Or. en

**Amendment 162**

**Dario Tamburrano, David Borrelli**

**Motion for a resolution**

**Paragraph 4 a (new)**

*Motion for a resolution*

*Amendment*

**4a. Stresses the importance of educating citizens, through awareness and information campaigns, to reduce thermal conditioning, to use less energy intensive appliances, to fully exploit the potential of renewables;**

Or. en

**Amendment 163**

**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**

**Motion for a resolution**

**Paragraph 4 b (new)**

*Motion for a resolution*

*Amendment*

**4b. Calls on the Commission and the Member States to facilitate further development and integration of renewable energy sources with local and regional distribution networks for heating and cooling, through policies that tackle existing regulatory and financial barriers; Stresses the potential of cities in particular, with their natural concentration of people and energy use, in developing district energy networks as a particularly efficient and cost-effective means of delivering low carbon heating and cooling in an urban environment;**

Or. en

**Amendment 164**  
**Miroslav Poche, Kathleen Van Brempt**

**Motion for a resolution**  
**Paragraph 4 b (new)**

*Motion for a resolution*

*Amendment*

**4b. Emphasises that existing decentralised and district heating systems both share the challenge to improve efficiency and include a greater share of renewable energy sources, as fossil fuels account for about 80% of the fuel mix in both existing decentralised and district heating systems;**

Or. en

**Amendment 165**  
**Patrizia Toia**

**Motion for a resolution**  
**Paragraph 4 b (new)**

*Motion for a resolution*

*Amendment*

**4b.** *Takes the view that district heating and cooling are important instruments for improving the energy efficiency of buildings and should therefore be recognised at the same level as renewable energy;*

Or. it

**Amendment 166**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Paragraph 5**

*Motion for a resolution*

5. Considers that the use of appropriate architectural solutions and urban design principles ***in the planning of whole residential areas should be the basis for*** energy-efficient and ***low-emission*** construction in the various climate zones in Europe;

*Amendment*

5. Considers that the use of ***mapping resources for heat purposes***, appropriate architectural solutions and urban design principles, ***including urban level network solutions, such as district heating and cooling, should contribute to*** energy-efficient and ***renewable energy equipped*** construction in the various climate zones in Europe;

Or. en

**Amendment 167**

**Algirdas Saudargas, Jerzy Buzek**

**Motion for a resolution**

**Paragraph 5**

*Motion for a resolution*

5. Considers that the use of appropriate architectural solutions and urban design principles in the planning of whole residential areas should be the basis for energy-efficient and low-emission construction in the various climate zones in

*Amendment*

5. Considers that the use of appropriate architectural solutions, ***facility management best practices*** and urban design principles ***including urban level network solutions*** in the planning of whole residential ***and commercial*** areas should be

Europe;

the basis for energy-efficient and low-emission construction in the various climate zones in Europe;

Or. en

#### **Amendment 168**

**Dario Tamburrano, David Borrelli**

#### **Motion for a resolution**

##### **Paragraph 5**

###### *Motion for a resolution*

5. Considers that the use of appropriate architectural solutions and urban design principles in the planning of whole residential areas should be the basis for energy-efficient and **low-emission** construction in the various climate zones in Europe;

###### *Amendment*

5. Considers that the use of appropriate architectural solutions and urban design principles in the planning of whole residential areas should be the basis for energy-efficient and **zero-energy** construction in the various climate zones in Europe; ***underlines that a properly insulated building fabric has a high thermal storage capacity, resulting in significant heating and cooling savings;***

Or. en

#### **Amendment 169**

**Miapetra Kumpula-Natri**

#### **Motion for a resolution**

##### **Paragraph 5**

###### *Motion for a resolution*

5. Considers that the use of appropriate architectural solutions and urban design principles in the planning of whole residential areas should be the basis for energy-efficient and low-emission construction in the various climate zones in Europe;

###### *Amendment*

5. Considers that the use of appropriate architectural solutions and urban design principles in the planning of whole residential areas should be the basis for energy-efficient and low-emission construction in the various climate zones in Europe; ***highlights the importance of urban planning also in integration of renewables to heating and cooling sector;***

**Amendment 170**

**Kathleen Van Brempt, Dan Nica, Jeppe Kofod, Miroslav Poche, Edouard Martin, Theresa Griffin, Martina Werner**

**Motion for a resolution**

**Paragraph 5**

*Motion for a resolution*

5. Considers that the use of appropriate architectural solutions and urban design principles in the planning of whole residential areas should be the basis for energy-efficient and low-emission construction in the various climate zones in Europe;

*Amendment*

5. Considers that the use of appropriate architectural solutions and urban design principles, ***such as urban level network solutions and sustainable district heating and cooling***, in the planning of whole residential areas should be the basis for energy-efficient and low-emission construction in the various climate zones in Europe;

**Amendment 171**

**Cornelia Ernst**

**Motion for a resolution**

**Paragraph 5**

*Motion for a resolution*

5. Considers that the use of appropriate architectural solutions and urban design principles in the planning of whole residential areas should be the basis for energy-efficient and low-emission construction in the various climate zones in Europe;

*Amendment*

5. Considers that the use of appropriate architectural solutions and urban design principles in the planning of whole residential areas should be the basis for energy-efficient, ***renewable energy-based*** and low-emission construction in the various climate zones in Europe;

**Amendment 172**

**Nikolay Barekov**

**Motion for a resolution**  
**Paragraph 5**

*Motion for a resolution*

5. Considers ***that the use of*** appropriate architectural ***solutions*** and urban design principles in the planning of whole residential areas ***should be*** the basis for energy-efficient and low-emission construction in the various climate zones in Europe;

*Amendment*

5. Considers ***there is a need to introduce*** appropriate architectural ***standards*** and urban design principles in the planning of whole residential areas ***as*** the basis for energy-efficient and low-emission construction in the various climate zones in Europe;

Or. bg

**Amendment 173**

**Morten Helveg Petersen, Carolina Punset, Fredrick Federley, Lieve Wierinck**

**Motion for a resolution**  
**Paragraph 5 a (new)**

*Motion for a resolution*

*Amendment*

***5a. Stresses that energy demand in the building sector is responsible for about 40 % of energy consumption in the EU and a third of natural gas use, and could be cut by up to three quarters if the renovation of buildings is speeded up; highlights that 85% of this energy consumption is used for heating and domestic hot water, and that as such, modernisation of old and inefficient heating systems, increased utilisation of electricity from renewables, better use of "waste heat" through highly efficient district heating systems, as well as deep renovation of buildings with improved thermal insulation, remain key to delivering a more secure and sustainable approach to heat supply; recommends the continuation of increasing energy efficiency standards for buildings taking account of and encouraging technical innovation particularly in ensuring homogeneity of insulation; further recommends continued support for the construction of***

*nearly zero-energy buildings;*

Or. en

**Amendment 174**

**Algirdas Saudargas, Jerzy Buzek, Seán Kelly, Bendt Bendtsen**

**Motion for a resolution**

**Paragraph 5 a (new)**

*Motion for a resolution*

*Amendment*

**5a. Encourages Member States to develop long term heating and cooling strategies based on integrated approach, harmonized mapping and the assessment made following article 14 of EED directive; the strategy shall identify priority areas for intervention and enable optimised urban energy planning; Calls the Commission to accompany Member States in this exercise by elaborating general guidance for the national heating and cooling strategies;**

Or. en

**Amendment 175**

**Patrizia Toia**

**Motion for a resolution**

**Paragraph 5 a (new)**

*Motion for a resolution*

*Amendment*

**5a. Takes the view that to make buildings smart and interconnected, active technological solutions should be promoted when renovating the existing building stock, by encouraging the dissemination of dynamic models in buildings for the remote control of heating systems, hot water production and air conditioning, creating synergies with**

*other energy sources, including  
renewables;*

Or. it

**Amendment 176**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Paragraph 5 a (new)**

*Motion for a resolution*

*Amendment*

*5a. Believes that, in this context of heating and cooling, the Energy Union should have the interests of present and future generations at its core and should empower the people to produce, consume, store or trade their own renewable energy either individually or collectively, to take energy-saving measures, to become active participants;*

Or. en

**Amendment 177**

**Marian-Jean Marinescu**

**Motion for a resolution**

**Paragraph 5 a (new)**

*Motion for a resolution*

*Amendment*

*5a. Reiterates the need of using Structural Funds for a wider range of building and building system upgrades, especially in the form of preferential loans to private building owners, which would facilitate a much stronger drive towards a greatly-needed upgrade on existing buildings, especially in the lesser-developed parts of the EU;*

Or. en



**Amendment 178**  
**Dario Tamburrano, David Borrelli**

**Motion for a resolution**  
**Paragraph 5 a (new)**

*Motion for a resolution*

*Amendment*

**5a. Underlines that it is necessary to enable buildings owners, managers and tenants to accelerate the modernisation of their old and inefficient heating systems in Europe in order to deliver high energy efficiency gains with available technologies, with particular reference to the renewable heating systems;**

Or. en

**Amendment 179**  
**Bronis Ropé**

**Motion for a resolution**  
**Paragraph 5 a (new)**

*Motion for a resolution*

*Amendment*

**5a. Draws attention to the economic effect of renovating and insulating buildings, often resulting in up to 50% lower heating and cooling costs, and calls on the Commission to provide adequate co-financing for initiatives aimed at renovating public housing and apartment blocks with low levels of energy efficiency;**

Or. It

**Amendment 180**  
**Anneleen Van Bossuyt**

**Motion for a resolution**  
**Paragraph 5 a (new)**

*Motion for a resolution*

*Amendment*

**5a. Calls on the European Commission to prioritise in the review of the Directive on the Energy Performance of Buildings (2010/31/EU), the modernisation of the building stock and the installed heating systems;**

Or. en

**Amendment 181**  
**Bronis Ropė**

**Motion for a resolution**  
**Paragraph 5 b (new)**

*Motion for a resolution*

*Amendment*

**5b. Stresses the importance of institutions of local and regional government in selecting the most effective solutions on energy consumption in the heating and ventilation of buildings; calls on the Member States to maximise this potential by ensuring that local and regional government institutions have as many opportunities as possible to make use of existing legal and financial instruments in order to implement solutions concerning the heating and ventilation of buildings;**

Or. lt

**Amendment 182**  
**Algirdas Saudargas, Jerzy Buzek, Bendt Bendtsen, Seán Kelly, Krišjānis Kariņš**

**Motion for a resolution**  
**Paragraph 5 b (new)**

*Motion for a resolution*

*Amendment*

**5b.** *Welcomes the Commission intention to develop a toolbox of measure to facilitate the renovation in multi-apartment buildings; considers that a harmonised and comprehensive toolbox should be developed also for the energy planning of cities to enable the mapping of local heating and cooling potential, optimised and integrated building renovation and heating and cooling infrastructure development;*

Or. en

**Amendment 183**  
**Marian-Jean Marinescu**

**Motion for a resolution**  
**Paragraph 5 b (new)**

*Motion for a resolution*

*Amendment*

**5b.** *Reiterates the importance of developing EU schemes that provide incentives to buildings going beyond the minimum legal requirements for energy efficient retrofits of public buildings, dwellings and social housing, and for ecological new buildings;*

Or. en

**Amendment 184**  
**Benedek Jávor**  
on behalf of the Verts/ALE Group

**Motion for a resolution**  
**Paragraph 6**

*Motion for a resolution*

*Amendment*

6. ***Calls on** local authorities **to take***

6. ***Given the decentralised nature of***

*the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;*

*the heating and cooling sector, considers local authorities, cities and regions to have a key role in fostering energy efficiency and renewable heating and cooling in existing public, commercial and residential buildings with low energy performance and thermal comfort; highlights in this context the importance of movements and bodies such as the Covenant of Mayors allowing sharing of knowledge and best practice and that should be further encouraged, strengthened and properly financed;*

Or. en

#### **Amendment 185**

**Bendt Bendtsen, Seán Kelly, Luděk Niedermayer**

#### **Motion for a resolution**

##### **Paragraph 6**

###### *Motion for a resolution*

6. Calls on local authorities to *take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;*

###### *Amendment*

6. Calls on local, *regional and national* authorities to *facilitate the further thermomodernisation of existing public, residential and commercial buildings in support of the objectives of both Member States and the EU to reduce greenhouse gas emissions by 40 % by 2030;*

Or. en

#### **Amendment 186**

**Kathleen Van Brempt, Flavio Zanonato, Miapetra Kumpula-Natri, Edouard Martin, Theresa Griffin, Miroslav Poche, Martina Werner**

#### **Motion for a resolution**

##### **Paragraph 6**

###### *Motion for a resolution*

###### *Amendment*

6. Calls on local authorities to *take the necessary steps towards* the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;

6. *Points out the local character and potential for heating and cooling and* calls on local authorities to *map local heating and cooling demands as well as available renewable and industrial heating and cooling sources in order to promote* the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling *in the most sustainable, cost-optimal and efficient way*;

Or. en

**Amendment 187**  
**Rolandas Paksas**

**Motion for a resolution**  
**Paragraph 6**

*Motion for a resolution*

6. Calls on local authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;

*Amendment*

6. Calls on local authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling *and to encourage the use of centralised heating and cooling systems as the cleanest and most technologically advanced form of heating*;

Or. It

**Amendment 188**  
**Morten Helveg Petersen, Carolina Punset, Kaja Kallas, Fredrick Federley, Lieve Wierinck**

**Motion for a resolution**  
**Paragraph 6**

*Motion for a resolution*

6. Calls on local authorities to take the

*Amendment*

6. Calls on local authorities, *Member*

necessary steps towards the **thermomodernisation** of existing public **or** residential buildings with low thermal comfort or comfort cooling;

**States and the Commission** to take the necessary steps towards the **renovation** of existing public, **commercial and** residential **inefficient** buildings with low thermal comfort or comfort cooling, **including the optimization of the heating, cooling and ventilation systems and installation of homogenous insulation**;

Or. en

**Amendment 189**  
**Laurențiu Rebegea**

**Motion for a resolution**  
**Paragraph 6**

*Motion for a resolution*

6. **Calls on** local authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;

*Amendment*

6. **Considers that** local authorities **have a key role to play in, and an obligation** to take, the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;

Or. ro

**Amendment 190**  
**Algirdas Saudargas, Jerzy Buzek**

**Motion for a resolution**  
**Paragraph 6**

*Motion for a resolution*

6. Calls on local authorities to take the necessary steps towards the thermomodernisation of existing public **or residential** buildings with low thermal comfort or comfort cooling;

*Amendment*

6. Calls on local **and regional** authorities to take the necessary steps towards the thermomodernisation of existing public, **residential and commercial** buildings with low thermal comfort or comfort cooling;

Or. en

**Amendment 191**  
**Cornelia Ernst**

**Motion for a resolution**  
**Paragraph 6**

*Motion for a resolution*

6. Calls on local authorities to take the necessary steps towards the thermomodernisation of existing public *or residential* buildings with low thermal comfort or comfort cooling;

*Amendment*

6. Calls on local authorities to take the necessary steps towards the thermomodernisation of existing public, *residential and commercial* buildings with low thermal comfort or comfort cooling;

Or. en

**Amendment 192**  
**Ivan Jakovčić**

**Motion for a resolution**  
**Paragraph 6**

*Motion for a resolution*

6. Calls on local authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;

*Amendment*

6. Calls on local *and regional* authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;

Or. hr

**Amendment 193**  
**Bronis Ropé**

**Motion for a resolution**  
**Paragraph 6**

*Motion for a resolution*

6. Calls on local authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal

*Amendment*

6. Calls on local *and regional* authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with

*comfort* or *comfort* cooling;

low thermal or cooling *efficiency*;

Or. It

**Amendment 194**

**Anneleen Van Bossuyt**

**Motion for a resolution**

**Paragraph 6**

*Motion for a resolution*

6. Calls on *local* authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;

*Amendment*

6. Calls on authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;

Or. en

**Amendment 195**

**Miapetra Kumpula-Natri**

**Motion for a resolution**

**Paragraph 6**

*Motion for a resolution*

6. Calls on local authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;

*Amendment*

6. Calls on local authorities *and Member States* to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling; *highlights that in building modernization and related legislation, decarbonisation of heating and cooling as well as electricity system should be taken into account;*

Or. en

**Amendment 196**

**Miapetra Kumpula-Natri**

**Motion for a resolution**



## Paragraph 6

### *Motion for a resolution*

6. Calls on local authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling;

### *Amendment*

6. Calls on local authorities to take the necessary steps towards the thermomodernisation of existing public or residential buildings with low thermal comfort or comfort cooling; ***notes that district heating infrastructure and combined heat and power are efficient ways to use renewable energy; calls for modernization and extension of existing district heating systems;***

Or. en

## Amendment 197

Dario Tamburrano, David Borrelli

### Motion for a resolution

#### Paragraph 6 a (new)

### *Motion for a resolution*

### *Amendment*

***6a. Highlights the potential of 'prosumers' (active energy consumers, such as households, both owners and tenants, institutions and small and micro businesses that engage in renewable energy production either on their own or collectively through cooperatives, other social enterprises or aggregations) in establishing energy systems providing renewable heating and cooling along with energy efficiency and savings measures;***

Or. en

## Amendment 198

Adam Gierek

### Motion for a resolution

#### Paragraph 6 a (new)

*Motion for a resolution*

*Amendment*

**6a.** *Calls on local authorities to assess existing heating and cooling potential in their areas, as well as future heating and cooling needs, taking into account the potential of locally available renewable energy sources, thermal energy from cogeneration and district heating volumes;*

Or. pl

**Amendment 199**  
**Soledad Cabezón Ruiz, Simona Bonafè**

**Motion for a resolution**  
**Paragraph 6 a (new)**

*Motion for a resolution*

*Amendment*

**6a.** *Calls on the Commission to increase support for the Covenant of Mayors and for the ‘Smart Cities and Communities’ initiative in order to make this a tool for promoting self-generation and energy efficiency and fighting energy poverty;*

Or. es

**Amendment 200**  
**Miroslav Poche, Kathleen Van Brempt**

**Motion for a resolution**  
**Paragraph 6 a (new)**

*Motion for a resolution*

*Amendment*

**6a.** *Calls on the European Commission to bring forward concrete proposals to increase the modernisation rate of installed heating systems in existing buildings in its review of the Directive on the Energy Performance of Buildings (2010/31/EU);*

**Amendment 201**  
**Patrizia Toia, Mercedes Bresso**

**Motion for a resolution**  
**Paragraph 6 a (new)**

*Motion for a resolution*

*Amendment*

**6a. Calls on local authorities to address the specific problems of rural buildings that tend to be older, less energy efficient, less beneficial to health, and provide lower thermal comfort;**

Or. en

**Amendment 202**  
**Miroslav Poche, Kathleen Van Brempt**

**Motion for a resolution**  
**Paragraph 6 b (new)**

*Motion for a resolution*

*Amendment*

**6b. Calls on the European Commission to prioritise the modernization of the existing building stock in the EU and the – largely inefficient – installed heating systems, in the review of the Directive on the Energy Performance of Buildings (2010/31/EU);**

Or. en

**Amendment 203**  
**Pilar del Castillo Vera**

**Motion for a resolution**  
**Paragraph 7**

*Motion for a resolution*

*Amendment*

7. *Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be restricted and replaced with large-scale local cogeneration systems that produce heat and electricity;*

*deleted*

Or. en

**Amendment 204**

**Benedek Jávor**

on behalf of the Verts/ALE Group

**Motion for a resolution**

**Paragraph 7**

*Motion for a resolution*

*Amendment*

7. *Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be restricted and replaced with large-scale local cogeneration systems that produce heat and electricity;*

7. *Considers district heating and cooling systems as strategic assets, especially in dense urban areas, as they can integrate locally available renewable energy sources, store surplus renewable electricity in times of lower electricity consumption, and effectively distribute heating and cooling to buildings and industrial sites; underlines that based on heat density calculations and taking account of the need to respect the 'energy efficiency first' principle and to optimise energy efficiency improvements, there should be a case-by-case assessment based on where district heating/cooling is economically and environmentally expedient and new systems should be installed or the renovation of existing ones should be encouraged;*

Or. en

**Amendment 205**

**Motion for a resolution**

**Paragraph 7**

*Motion for a resolution*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels *be* restricted and *replaced with large-scale local cogeneration systems that produce heat and electricity*;

*Amendment*

7. *Stresses that over 20% of district heating and cooling is already generated from renewable energy; Considers that district heating and cooling systems are one of the most efficient way to supply thermal energy and has an important potential to integrate renewable energy sources, recovered heat and cooling as well as to offer a flexibility to the energy system ; Stresses that in dense urban agglomerations where district heating network is available it is imperative that the use of inefficient individual heating systems that depend on fossil fuels is restricted and the connection of such individual houses to the district heating is encouraged;*

Or. en

**Amendment 206**

**Simona Bonafè, Flavio Zanonato**

**Motion for a resolution**

**Paragraph 7**

*Motion for a resolution*

7. Stresses that *in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be restricted and replaced with large-scale local cogeneration systems that produce heat and electricity*;

*Amendment*

7. Stresses that *inefficient individual and district heating systems shall be modernised in order to shift to high-efficiency and increase the contribution of renewable alternatives towards the transition to a decarbonized and resilient heating and cooling systems;*

Or. en

**Amendment 207**  
**András Gyürk**

**Motion for a resolution**  
**Paragraph 7**

*Motion for a resolution*

7. Stresses that in dense urban agglomerations it is imperative that the *use of individual heating systems that depend on fossil fuels be restricted and replaced with large-scale local cogeneration systems that produce heat and electricity;*

*Amendment*

7. Stresses that in dense urban agglomerations it is imperative that the *inefficient and unsustainable individual or district heating/cooling systems are replaced with efficient district heating/cooling systems or are modernised with state-of-the-art heating/cooling technologies to shift to high-efficiency and renewable alternatives;*

Or. en

**Amendment 208**  
**Dario Tamburrano, David Borrelli**

**Motion for a resolution**  
**Paragraph 7**

*Motion for a resolution*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be restricted and replaced with *large-scale* local cogeneration *systems that produce heat and electricity;*

*Amendment*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be restricted and replaced with local cogeneration *or trigeneration (combined heat, power and cooling, CHPC) systems, with a particular focus on micro- and small-scale systems that can also provide the opportunity for power backup of residential-scale photovoltaic (PV) arrays;*

Or. en

**Amendment 209**

Cornelia Ernst

**Motion for a resolution**  
**Paragraph 7**

*Motion for a resolution*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be restricted and replaced with large-scale local cogeneration systems that produce heat and electricity;

*Amendment*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be restricted and replaced with **highly energy efficient and RES-based systems, including** large-scale local **installations (such as heat-pump applications that provide for heating and cooling and** cogeneration systems that produce heat and electricity);

Or. en

**Amendment 210**  
**Patrizia Toia**

**Motion for a resolution**  
**Paragraph 7**

*Motion for a resolution*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be restricted and replaced with large-scale local cogeneration systems that produce heat and electricity;

*Amendment*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be restricted and replaced with **renewable and recoverable sources including waste heat and** large-scale local cogeneration systems that produce heat and electricity, **which should be distributed - if economically feasible - through district heating and cooling systems;**

Or. en

**Amendment 211**  
**Kathleen Van Brempt, Theresa Griffin, Miroslav Poche, Edouard Martin, Jeppe Kofod, Martina Werner**

**Motion for a resolution**  
**Paragraph 7**

*Motion for a resolution*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be restricted and replaced with **large-scale local cogeneration** systems **that produce heat and electricity**;

*Amendment*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be restricted and replaced with **state-of-the-art individual or district heating and cooling** systems, **which are more efficient and preferably renewables based**;

Or. en

**Amendment 212**  
**Kaja Kallas**

**Motion for a resolution**  
**Paragraph 7**

*Motion for a resolution*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be **restricted and** replaced with **large-scale** local cogeneration systems that produce heat and electricity;

*Amendment*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be **reduced and gradually** replaced with local cogeneration systems, **using local and sustainable energy sources such as wood**, that produce heat and electricity;

Or. en

**Amendment 213**  
**Françoise Grossetête, Anne Sander**

**Motion for a resolution**  
**Paragraph 7**

*Motion for a resolution*

7. Stresses that in dense urban

*Amendment*

7. Stresses that in dense urban



agglomerations *it is imperative that* the use of individual heating systems *that depend on fossil fuels* be restricted and replaced with *large-scale local* cogeneration systems that produce heat and electricity;

agglomerations the use of *the most polluting coal- and oil-fired* individual heating systems *should gradually* be restricted and replaced with *centralised or decentralised* cogeneration systems that produce heat and electricity;

Or. fr

#### **Amendment 214**

**Miroslav Poche, Dan Nica, Kathleen Van Brempt**

#### **Motion for a resolution Paragraph 7**

##### *Motion for a resolution*

7. Stresses that *in dense urban agglomerations* it is imperative that *the use of individual* heating systems *that depend on fossil fuels be restricted and replaced with large-scale local cogeneration systems that produce heat and electricity*;

##### *Amendment*

7. Stresses that it is imperative that *inefficient individual and district* heating systems *are modernised with state-of-the-art heating technologies to shift to high-efficiency and renewable alternatives*;

Or. en

#### **Amendment 215**

**José Blanco López, Soledad Cabezón Ruiz**

#### **Motion for a resolution Paragraph 7**

##### *Motion for a resolution*

7. Stresses that in dense urban agglomerations it is imperative that the use of *individual* heating systems *that depend on fossil fuels be restricted and replaced with large-scale local* cogeneration systems *that produce heat and electricity*;

##### *Amendment*

7. Stresses that in dense urban agglomerations it is imperative that the use of *inefficient* heating systems *are progressively replaced with modern heating solutions and* cogeneration systems *contributing to improve air quality standards*;

Or. en

**Amendment 216**  
**Barbara Kappel**

**Motion for a resolution**  
**Paragraph 7**

*Motion for a resolution*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems *that depend on fossil fuels be restricted and replaced with large-scale local cogeneration systems that produce heat and electricity*;

*Amendment*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems *as well as district heating systems to be optimized so as to comply with the emission reduction targets of the EU, while keeping costs for suppliers and consumers affordable*;

Or. en

**Amendment 217**  
**Morten Helveg Petersen, Carolina Punset, Gerben-Jan Gerbrandy, Fredrick Federley**

**Motion for a resolution**  
**Paragraph 7**

*Motion for a resolution*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be *restricted* and replaced with *large-scale* local cogeneration systems that produce heat and electricity;

*Amendment*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend on fossil fuels be *phased out* and replaced with *sustainable* local cogeneration systems that produce heat and electricity;

Or. en

**Amendment 218**  
**Ivan Jakovčić**

**Motion for a resolution**  
**Paragraph 7**

*Motion for a resolution*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend

*Amendment*

7. Stresses that in dense urban agglomerations it is imperative that the use of individual heating systems that depend

on fossil fuels be restricted and replaced with large-scale local cogeneration systems that produce heat and electricity;

on fossil fuels be restricted and replaced with large-scale local *and/or regional* cogeneration systems that produce heat and electricity;

Or. hr