



# Paradigm shift, a new perception of the importance of LPG



GASNOVA – 3er CONGRESO INTERNACIONAL DEL GLP  
CLEAN ENERGY

11.11.2021

Esther Busscher, President Liquid Gas Europe



European LPG Association  
[www.liquidgaseurope.eu](http://www.liquidgaseurope.eu)

# Shifting gear



- Externally
- Internally
- Jointly





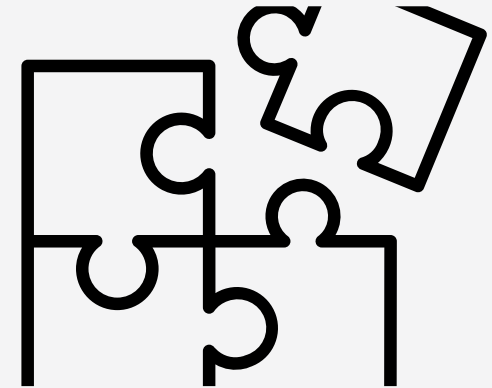
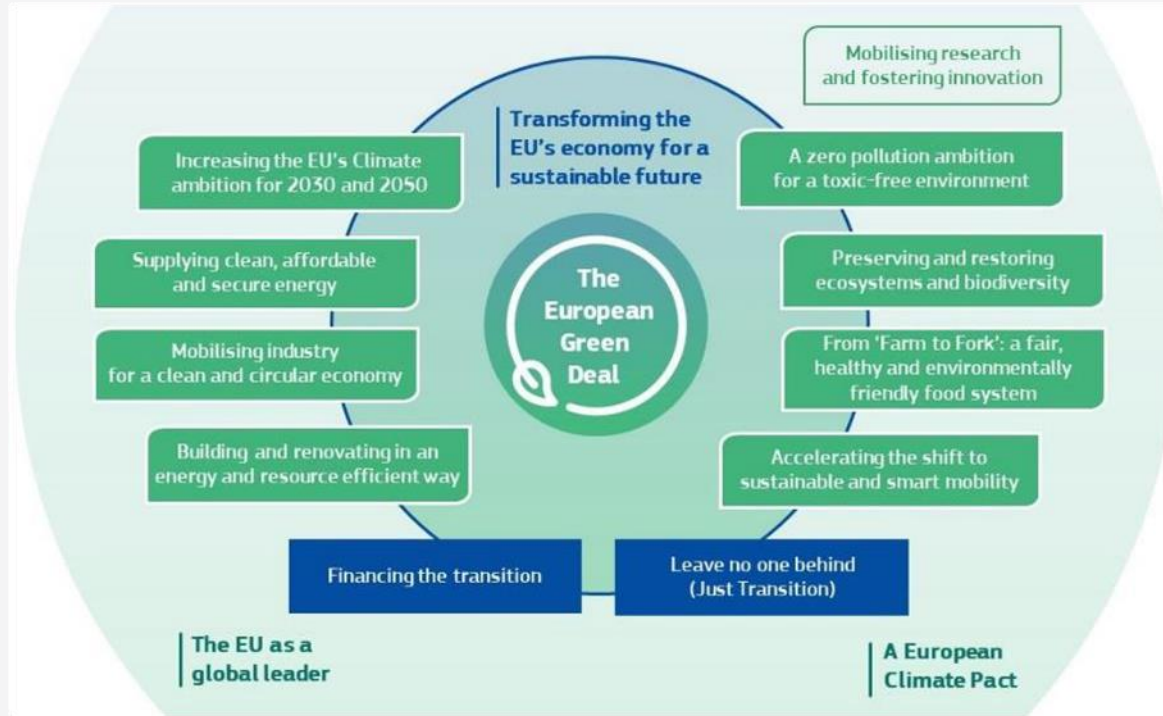


## External dimension

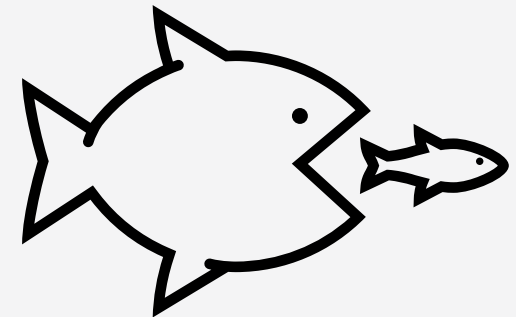
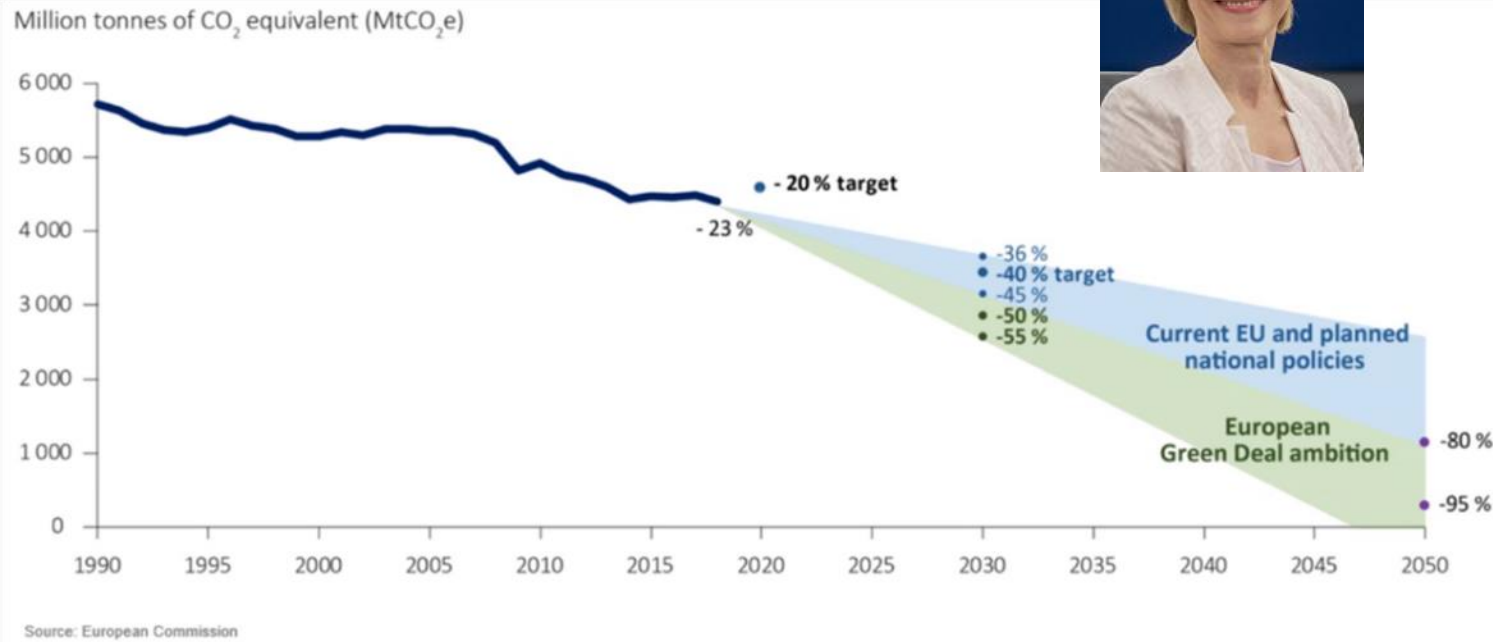
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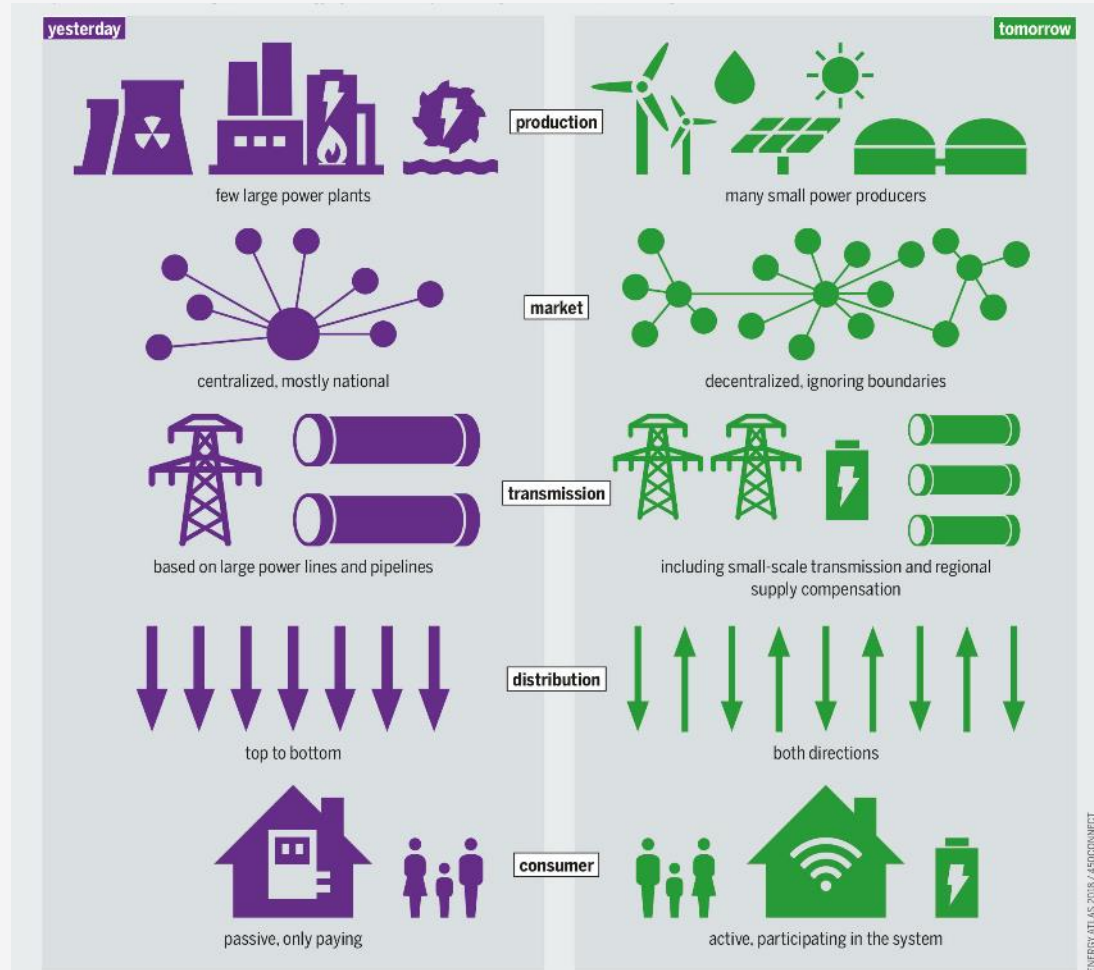
# From a separate Clean Energy Package to an integrated Green Deal



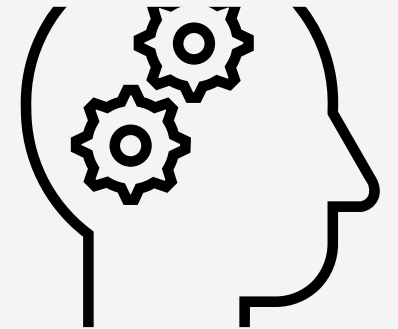
# From a decarbonised economy to the world's first climate neutral continent



# From an energy transition to a new energy system



Source: <https://gr.boell.org/en/2018/05/10/energy-atlas-nutshell>



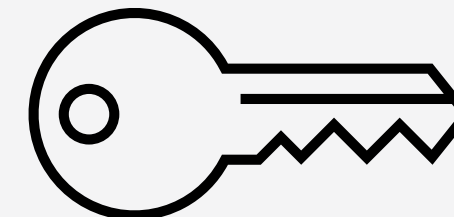
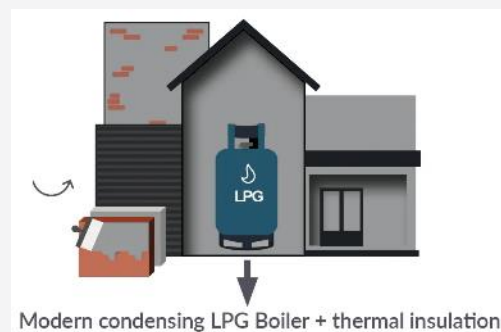
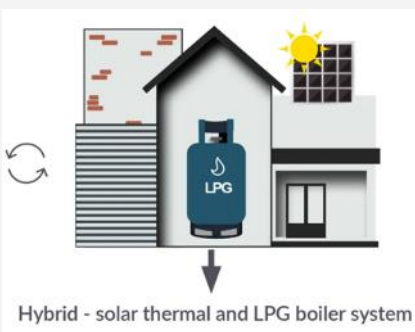
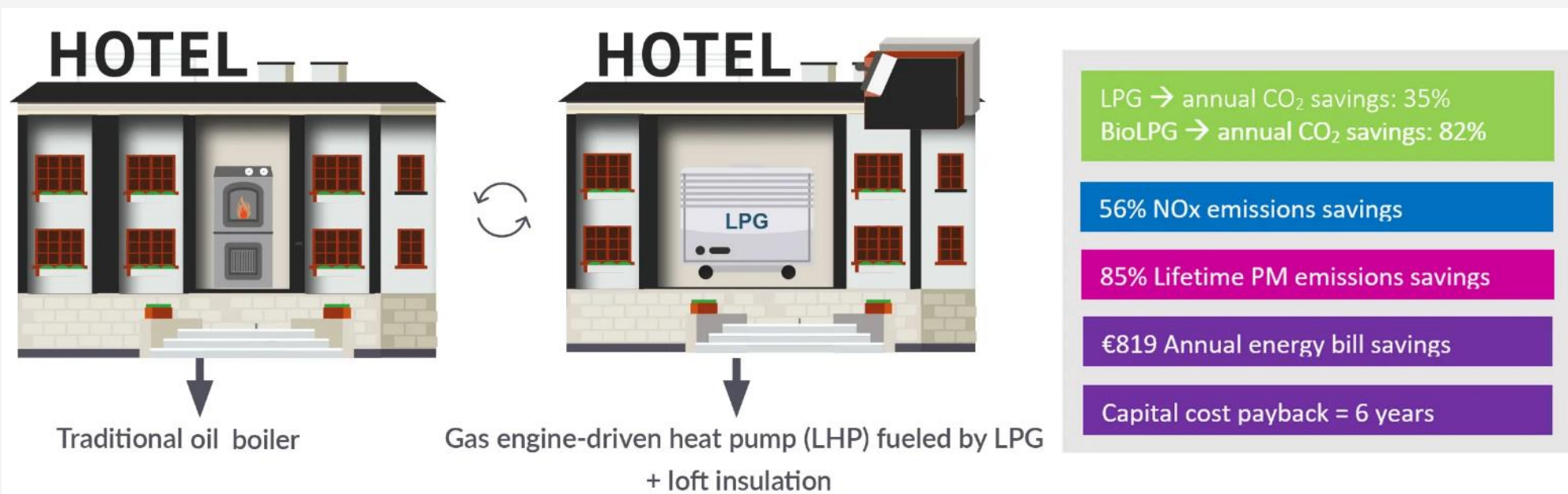


Internal dimension

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# From fuel to energy solution





# From stand-alone to partner



## Solar Thermal & LPG to decarbonise local heat – a winning case

Joint paper of Solar Heat Europe and Liquid Gas Europe

The next decade will be essential to achieve the European goal of carbon neutrality by 2050. The European heating and cooling sector represents 51% of the final energy consumption and is responsible for approximately 27% of the EU carbon emissions. Taking into consideration that the EU heating market is twice the size of the electricity one, European, national, and local policymakers need to take tangible and fast actions to decarbonise this sector. This will be a fundamental step towards the transition to a sustainable energy mix.

Heating is a challenging area to decarbonise, especially in rural areas. There are more than 40 million European households located in rural areas that are not connected to the gas grid. Hybrid technology combining the environmental benefits and reliability of solar thermal and LPG, increasingly bioLPG, a renewable gas distributed off the grid, presents an exciting opportunity for their local heat generation.

**Solar Heat Europe and Liquid Gas Europe promote a mixed technology approach to heating and cooling to facilitate decarbonisation of this sector and contribute to a further deployment of renewables and smart system integration in rural Europe.**



YOUNG PERSON IN  
LPG AWARDS



News from European LPG Stakeholders  
2021-07-15

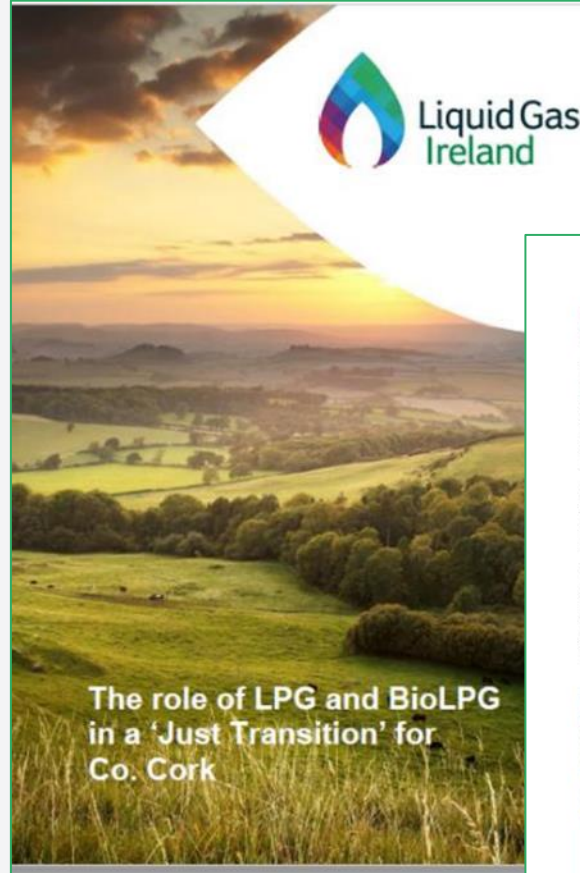
Joint statement on the Fit for 55  
package – Renewable & Low-Carbon  
Liquid Fuels Platform

[Read more](#)



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# From customer to champion



## Savings breakdown for Co. Cork through a 'mixed technology' approach



€4.7bn

Vs

€426m



The cost of retrofitting 85,232 homes in Co. Cork for heat pump installation at an average cost of €56,000

The cost of transitioning the same 85,232 homes to a lower carbon fuel option such as LPG or BioLPG at an average cost of €5,000



**Total potential savings** for Co. Cork by switching to LPG or BioLPG instead of a heat pump system

**= €4.3bn**



### Case studies

Stories of homeowners and businesses around Ireland who made the switch to LPG and BioLPG

#### Residential Gerard Hussey, Homeowner, Co. Cork

Gerard was converting and upgrading his rural property, which contained a main house and a self-contained apartment. The home had an old oil heating system that was inefficient. He wanted a clean, easily controlled, and energy-efficient system.

Considering the unique features of his rural home, an underground gas tank and high-efficiency condensing gas boiler were recommended, which were both readily suitable for the 'drop-in' recommended solution, BioLPG.

Gerard was already realising the benefits of gas cooking and the convenience of a gas fire using LPG cylinders. Due to the versatility of BioLPG, these were also connected to his new BioLPG supply. This enabled Gerard to have a single and secure fuel source for his home, as well as a 100% renewable fuel source.



#### Key benefits

- Carbon savings: over 6 tonnes saved since switching to BioLPG from oil, 2 tonnes per year
- A 70% reduction in emissions.



#### Agriculture The Dunne Dairy Farm, Co Wexford

With a growing farm, in 2018 the Dunes major transformation of their old dairy one suitable for housing the state-of-the-art Astronaut robotic milking system.

Gerald and Henry pride themselves in a top-quality dairy product, so they search for a hot water solution that would meet the requirements of Astronaut.

The Dunes opted for an LPG hot water system. A smooth changeover process was a part of the overall parlour upgrade. An LPG bulk tank was delivered and the wall mounted water heaters were connected to the tank.

- Key benefits**
- On-demand hot water delivering temperatures from 37°C to 85°C.
  - Reduced running costs.
  - Reduced carbon footprint.

## Retrofitting and heat pump installation to cost €4.7bn for over 85,000 Cork homes

29 August 2021

By Tom Collins

tom@TheCork.ie

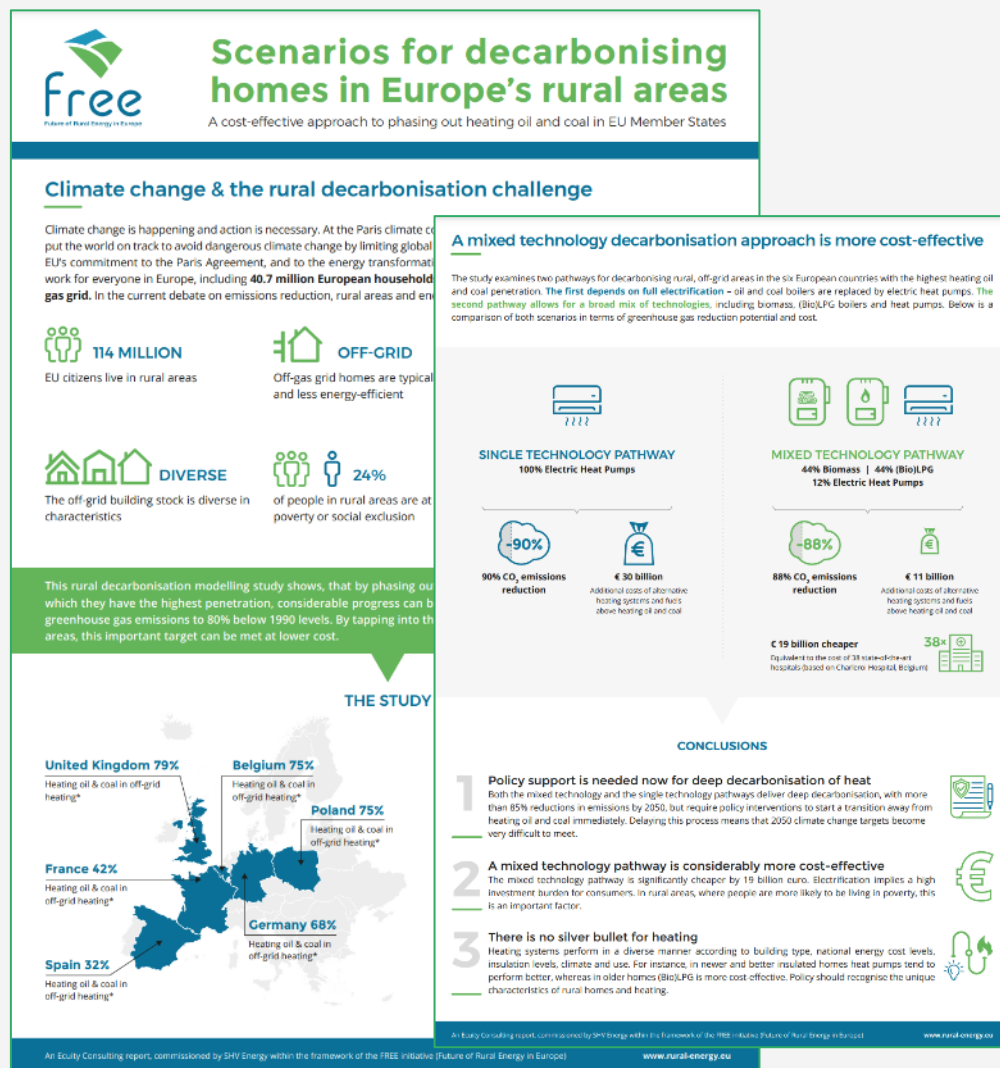


### longfordleader

## Retrofitting and heat pump installation to cost €692m for over 12,000 Longford homes



# From silver bullet to energy mix



**PATH TO ZERO**

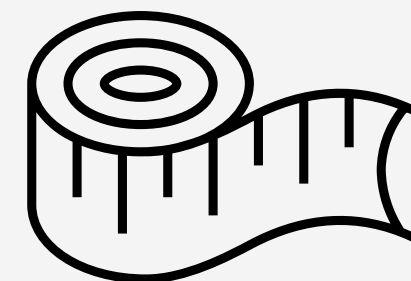
HOSTED BY  
**Tucker Perkins**  
 CEO OF THE PROPANE EDUCATION & RESEARCH COUNCIL

**ENERGY FOR EVERYONE**  
**propane**

## Check out the Podcast

PERC's podcast, Path to Zero, is an exploration of how we can work toward a low carbon future using the clean energy available to us right now.

[LISTEN NOW >](#)



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Joint efforts

European LPG Association  
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# From pure to pathways



BIOLPG  
A RENEWABLE  
PATHWAY TOWARDS  
2050

**BioLPG is  
DROP-IN READY**

The green transition can happen  
in existing technologies, without  
additional costs or modifications

BIOLPG:  
A RENEWABLE PATHWAY  
TOWARDS 2050

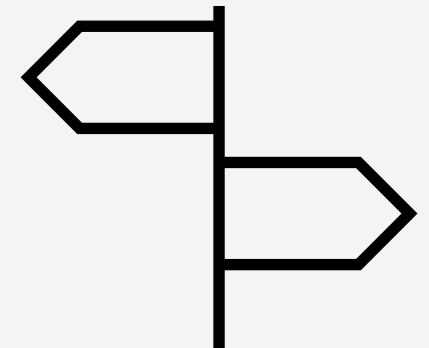
#BioLPG2050  
The conversation starts now!

Supporting businesses in the energy transition

## The role of LPG and bioLPG in Europe

### Q&A on BioLPG

- 1. What is bioLPG?**  
BioLPG is a naseous fuel that can come from production processes using renewable and organic feedstocks. It is chemically identical to conventional LPG (propane, butane or a mix of the two). It is already available on the European market in growing quantities.
- 2. How is bioLPG different from regular LPG? Is it identical in use and performance to LPG?**  
BioLPG and conventional LPG are chemically identical but produced from different feedstocks. This makes bioLPG a drop-in fuel that can be used at any rate and still be used in existing infrastructure and appliances. It means that distributors and consumers do not need to change or upgrade their equipment or facilities to switch to a renewable energy solution.
- 3. What are the benefits of bioLPG in terms of CO2 and pollutant emissions?**  
The carbon footprint of bioLPG is up to 80% lower than that of conventional LPG, depending on the feedstock used. As bioLPG is chemically identical to conventional LPG, it carries the same low NOx, SOx and PM as conventional LPG.



# From climate change to health and environment



## New WHO Global Air Quality Guidelines aim to save millions of lives from air pollution

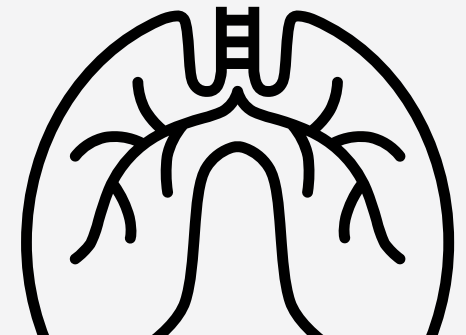
Air pollution is one of the biggest environmental threats to human health, alongside climate change.

**1**

**CLIMATE CHANGE AND AIR POLLUTION ARE TWO SIDES OF THE SAME COIN.**

**THE CONTRIBUTION OF LPG.**

- Coal** Substituting from an oil or coal boiler to an LPG one can reduce emissions respectively by 35% and 55%.\*
- Coal** Compared to liquid feed stock fuels, LPG also emits virtually no black carbon, which is the second largest contributor to climate change after CO<sub>2</sub>. LPG boilers produce 60% less PM than oil boilers and 99% less PM than woody biomass stoves.\*
- As a transport fuel**, recent real driving emission tests have shown that LPG vehicles produce 58% less NO<sub>x</sub> emissions than diesel cars. In addition, they emit 40% less particulates and 45% less carbon monoxide than gasoline cars.\* Regarding CO<sub>2</sub>, LPG vehicles also produce 20% less well-to-wheel GHG emissions than diesel and 25% less than petrol.\*



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# From acting locally to sharing globally



Photo credit: Canva



Photo credit: Canva

## LPG HEATING INCENTIVE POLICIES

A Survey of Why and How Governments Can and Should Encourage Heating With LPG

AUGUST 2021



### NEWS

## RURAL HOUSEHOLDS UNABLE TO AFFORD GOVERNMENT'S NET-ZERO PLANS, SURVEY FINDS

18:08, 4 May, 2021

SHARE

BIO LPG LGUK LIQUID GAS UK LPG NET-ZERO

# HVP

HEATING VENTILATING & PLUMBING



New research by Liquid Gas UK (LGUK), the trade association for the LPG and bioLPG industry in the UK, has found that over a quarter (28%) of rural households living off the gas grid have said that they would not be able to afford a new heating system at any price if forced to install one to meet net-zero emissions targets.



Liquid Gas UK



[www.liquidgaseurope.eu](http://www.liquidgaseurope.eu)



# Bienvenido @Barcelona 29-30 June 2022



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**¡Muchas gracias !  
¿Alguna pregunta?**



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