

## RENEW YOUR HEATING SYSTEM FOR HALF PRICE

Barningham Net Zero is applying to the Prince's Countryside Fund for a grant under the *Supporting Rural Communities* programme. The new project would compare three sustainable heating technologies suitable for older houses off the gas-grid to eliminate the use of fossil fuels.

We aim to compare the performance and cost of heating an old property using an air source heat pump, a wood pellet boiler and a new technology electric heating system. The first two are established technologies with somewhat limited take up in the off-gas grid older housing stock.

New technology electric heating systems with energy efficient heat storage are relatively new to market. The system comprises an electric boiler with heat storage unit controlled by smart technology to draw electricity at a cheap tariff rate. Night-time tariffs of 5p/kWh are offered by Good Energy and Octopus, while Octopus also offers an agile tariff that takes advantage of half-hourly fluctuations to the wholesale energy price and enables charging when the price falls below a threshold. These tariffs potentially bring the cost of electric heating in line with that of fossil fuel heating oil.

Performance and cost data for the three no / low carbon heating technologies will be collected over a 12-month period, with the results provided as a case study for sharing with other rural communities, both regionally and nationally.

If you are thinking of updating your home heating system, want to eliminate the use of fossil fuel oil and are willing to be an early adopter of the new electric technology, please email [info@barninghamnetzero.com](mailto:info@barninghamnetzero.com) or contact Martha (07984 756080). The Barningham Net Zero project is offering to cover 50% of the purchase and installation cost.

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**Barningham Net Zero Community Interest Company**

*Meeting the Climate Change Emergency in Barningham*

[www.barninghamnetzero.com](http://www.barninghamnetzero.com)

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## Barningham Net Zero News...issue 12

### BARNINGHAM CLIMATE GET-TOGETHER..... *coinciding with COP26*

The **Greener Barningham** event announced in issue 11 of BNZ News will now be held on **Friday, 12 November** to coincide with the United Nations Climate Change Conference (COP26). This will be a fun evening for all the family in **Barningham Village Hall from 6 to 9pm**.

- Hot food available for pre-order – menu to follow
- Liquid refreshments available
- Information stands on from regional and local organisations, including our own *Barningham Net Zero*
- Natural Beeswax Products, as advertised in *The Flyer*
- Apple pressing
- Make your own eco-bag activity for kids
- Family climate change quiz with prize
- Green raffle
- **Free** film screening: *My Octopus Teacher*

**Children's climate change poster competition – a prize will be given for the best climate change themed poster (under 16 years)**. All posters to be displayed at the event, then posted on our website and facebook page.

Make a diary note now! To pre-book food or seats for the film screening, email [info@barninghamnetzero.com](mailto:info@barninghamnetzero.com) or contact Martha (07984 756080).

### COP26



For nearly three decades the United Nations has been bringing together almost every country on earth for global climate summits – called COPs – which stands for 'Conference of the Parties'. In that time climate change has gone from being a fringe issue to a global priority.

This year will be the 26th annual summit – giving it the name COP26. With the UK as President, COP26 takes place in Glasgow.

## CLIMATE CHANGE IS HERE NOW.....

This summer has brought more examples of what we can expect as a result of human induced climate change through excessive carbon dioxide emissions. Severe flooding in Germany, France, The Netherlands, China and the US has brought death and destruction. Record high temperatures and resulting wildfires have wreaked havoc and mayhem in North America. Antarctica has lost a record amount of ice and in Russia, thawing of the permafrost has released more methane into the atmosphere.

In a special report this summer, The **Intergovernmental Panel on Climate Change (IPCC)** stated that human-induced climate change is already affecting many weather and climate extremes in every region across the globe. Scientists are also observing changes across the whole of Earth's climate system; in the atmosphere, in the oceans, ice floes and on land. Many of these changes are unprecedented, and some of the shifts are in motion now, while some - such as continued sea level rise – **are already 'irreversible' for centuries to millennia**, the report warns.

But there is still time to limit climate change, IPCC experts say. Strong and sustained reductions in emissions of carbon dioxide (CO<sub>2</sub>) and other greenhouse gases could quickly make air quality better, and in 20 to 30 years, global temperatures could stabilise.

This means that all governments need to address the climate emergency with even greater urgency. Internationally, the United Nations Climate Change Conference, also known as **COP26 (Conference of the Parties)** will be held in Glasgow; let's hope that real commitments to change will be made by the heads of governments from all over the globe.

## .....**BUT WE'RE TACKLING IT IN BARNINGHAM**

Sometimes, the ever-growing threats to our way of life of excessive carbon emissions seem overwhelming, paralysing and remote but residents of Barningham continue to make the necessary changes needed.

There are now three electric vehicles (EVs) in the village, while a fourth household has recently future-proofed the electricity supply to their parking area by increasing to 40amp – sufficient to power an EV charger in the near future.

Another household has removed their oil-fired boiler and installed a wood-pellet system. In other households, more insulation is being installed and installation of a second air-source heat pump in the village is imminent. Finally, the Village Hall is also planning to install double-glazed windows and are taking advice on further energy efficiency improvements.

Close by there are other developments: Cross Lanes Organic Farm Shop has an EV charger and there is also a charger now installed (but not yet functional) at the Hole in the Wall car park in Barnard Castle.

So, things **are** possible and **are** happening but more and faster changes are needed!

## ..... **MEANWHILE IN NORWAY**

International new car sales figures for the month of August show that Norway has the highest percentage of fully-electric cars registered as a

proportion of all cars sold in that country – a staggering 71.9%. If hybrids are included, then the figure rises to 88%. But is it surprising?

By comparison in the UK, as of the end of August 2021, there were more than 600,000 plug-in vehicles on the road with nearly 300,000 fully electric and 300,000 hybrids. Last year more than 175,000 new electric vehicles were registered, showing a growth of 66% on 2019.

Although we have a way to go to catch up with Norway, the death knell is certainly sounding for the poor old internal combustion engine!

