



**FULLY CHARGED
OUTSIDE**

Visit the biggest festival of electric vehicles and clean energy

**GREEN
DELIVERIES**

DPD's plans to electrify UK deliveries and 'plant trees for EVs'

**CHARGING
FORWARD**

How powerful software, intelligent design and great user experience will support the shift to clean power

SPECIAL ISSUE

ELECTRIC NATION

ELECTRIC DREAMS



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Something's changed...



Robert Llewellyn, founder, presenter & joint-CEO of FULLY CHARGED, says now it's our time to change, too

It's been 18 months since the enormity of the coronavirus crisis engulfed Europe, and all the while, looming ominously in the background, is an even bigger threat: the climate emergency. At FULLY CHARGED we choose to focus on some of the positives from the last year and a half. After all, we have been shown what the world might look like with less commuting and less flying; it's also made us take a long, hard look at supply chains and how we consume things. Perhaps above all, the global vaccine rollout has shown that we can science our way out of a tight spot.

With extreme weather-related events increasing in frequency and severity, now is the time to stop navel-gazing. We know what the available solutions are – now it's time to act, and at speed.

WELCOME TO THE ENERGY TRANSITION
FULLY CHARGED started life as a YouTube channel, but for many it's becoming a movement for those who are looking to reduce their impact. Our mantra is #StopBurningStuff as, while it has advanced civilisation immeasurably, combustion (alongside consumption) is the driving force behind a warming world. Thankfully, there are cleaner technologies that don't rely on burning fossil fuels; they are better than what's been before – and they are better for us, too.

We are in the midst of the 'third industrial revolution' or, as some term it, 'the energy transition': a radical transformation from a fossil fuel-powered world to one that is run on post-combustion, sustainable technologies – like wind, solar, hydro and tidal – ably supported by energy storage (including batteries).

But we believe that the hero of this story is set to be the electric car. This is not to say that we believe in more cars (actually we believe in fewer, smaller, lighter and more shareable cars), but if you genuinely need your car we would urge you to choose a pure electric vehicle without an exhaust when you next need one.

The indisputable fact remains that cars stir emotions, and can act as the spearhead to advance an array of cleaner technologies. At FULLY CHARGED we are very familiar with the journey when someone gets their first electric car. Typically they are blown away by its superior performance and how much more convenient it is than they might have thought, and then before long they become increasingly engaged with the energy that goes into it, as well as the array of adjacent topics. In short, it asks the question: if driving electric is this liberating, what would *living* electric be like? We will aim to answer that question at the biggest ever festival of electric vehicles and clean energy – FULLY CHARGED OUTSIDE – this September.

FIND YOUR ELECTRIC CAR
Manufacturers have started to shift focus, so dozens of electric cars are now available. FULLY CHARGED OUTSIDE will be the only show in the UK this year to have every commercially available electric car on display – many of which you can try for yourself in our test drive programme.

While Tesla's Model 3 still sets the bar, there are some incredible cars now on offer, including Hyundai's Ioniq 5, KIA's EV6, Polestar 2, VW's ID.3 and ID.4 and many others. We will also have electric cars that are coming soon, as well as some

concepts and prototypes that we think are the future of transport. We will also look back with an incredible selection of classic cars that have been converted to electric, as well as a rarely seen electric car from 1906.

Visitors will have the chance to ask questions about running electric cars, and talk about all the charging options both at home and away. Our two theatres will be packed with useful information for beginners, an understanding of running costs, myth busters and deeper dives into how batteries are being recycled and where the materials that make them come from. A day at FULLY CHARGED OUTSIDE should equip you with everything you need to embark on your electric journey.

OTHER ELECTRIC VEHICLES

One of the things we love about the electrification of transport is the range of smaller, lighter options that is emerging. From electric monowheels to skateboards, from scooters to bikes and trikes and from mopeds to motorbikes, you will be spoilt for choice at FULLY CHARGED OUTSIDE.

One of the assumptions often overheard about e-bikes is that they are a lazy alternative to pedal-powered bikes, but actually they provide additional power to your pedalling, meaning that you can cycle faster and further. E-bike sales are soaring, as they open up two-wheeled options to lots of people who haven't considered cycling of late. After all, if these smaller options can take cars off the road, that can only be a good thing.

At the other end of the spectrum, electrification is coming in for serious consideration for larger vehicles, like planes, trains and boats, too. At FULLY CHARGED OUTSIDE we will showcase lots of commercial electric vehicles, especially coaches, buses, trucks and vans, as businesses look to benefit from the cleaner, greener options coming to market.

CLEANER TECHNOLOGIES

Often we find that while people understand that transport – especially flying or driving – has a huge carbon impact, they tend to think less about their energy consumption at home. There is lots of talk about low-energy lightbulbs, switching off appliances overnight and even recycling as being the right thing to do. These are of course important steps, but their impact is small when compared with electricity and in particular heat and hot water. In fact, in UK households the carbon impact of heating and hot water is roughly equivalent to its flying and driving.

When it comes to electricity, the switch to sustainable energy is straightforward enough



now and there will be several energy suppliers you can talk to at FULLY CHARGED OUTSIDE. Beyond that, you might be interested to find out how you can best generate, store and maximise electricity at home, and again we will have some superb technology companies on show. However, heat and hot water will finally get a focus proportionate to the carbon that current technologies emit.

With live sessions on 'Beyond the Boiler' and 'Are Heat Pumps the next big thing?', FULLY CHARGED OUTSIDE will gather together all of the technologies that you need to consider. Whether it's cheaper measures like insulation, energy efficiency, smart thermostats or thermal storage – or bigger investments like air-source heat pumps, ground-source heat pumps or the newest zero-emission heating tech – it will all be on display.

SEE YOU IN SEPTEMBER

To find out what you should do differently and which technologies you should invest in, there's no better showcase in the world than FULLY CHARGED OUTSIDE, 03, 04 and 05 September. Come along for a day, and better still bring a friend you believe could also be converted to electric vehicles and clean energy. Going electric, and leaving fossil-fuelled products in the past, is an infectious feeling. In a world where negativity spreads like wildfire, surely it's time to spread positive energy instead?

Find out more

■ Book your tickets and discover the full programme at fullycharged.show/events/fully-charged-live-2021

Visit the biggest ever festival of electric vehicles and clean energy for live sessions, expert advice, test drives and hundreds of clean tech solutions





THIS IS WHAT **GREEN DELIVERIES** LOOK LIKE

DPD's Mandy Hamilton reveals the company's plans to electrify UK deliveries and 'plant trees for EVs'

Carbon neutral since 2012, DPD has long understood the need to go green – but in the last three years the delivery company has gone further than anyone to create the UK's cleanest, greenest delivery service.

By implementing a series of industry firsts and innovative initiatives, DPD has not only directly reduced its own vehicle emissions but also worked collaboratively to contribute to wider issues such as air quality monitoring and the circular economy.

THE 25-25-25 GREEN VISION

DPD has committed to all-electric deliveries in 25 cities by the end of 2025, 10 of which will be completed by the end of 2021. This vision will deliver 42,000 tonnes of CO2 savings – the equivalent of planting 170,000 trees.

The 25 cities set to get all-electric deliveries are Birmingham, Bradford, Brighton, Bristol, Cambridge, Cardiff, Coventry, Derby, Edinburgh, Glasgow, Hull, Leeds, Leicester, Liverpool, London, Manchester, Newcastle, Nottingham, Oxford, Plymouth, Portsmouth, Reading, Sheffield, Southampton and Stoke.

GREEN DELIVERIES IN OXFORD

In July 2021 DPD launched its all-electric delivery service in the city of Oxford; it is believed to be



CLOCKWISE FROM TOP The SAIC Motor Maxus 3.5t long wheelbase all-electric vehicle; Olympic champion Victoria Pendleton at the opening of cutting-edge Bicester eco depot; DPD Wareham Forest; DPD's air pollution tracker

the first initiative of its kind in any UK city. The plan to provide all-electric deliveries in the city of Oxford began over 12 months ago with the building of a new Bicester Distribution Centre (DC), which opened in June 2021.

This is DPD's first 'net-zero carbon in construction' building; it uses low-energy and zero-carbon design principles and includes 30 electric vehicle charging points. The new facility, with its larger electric vehicle fleet, enabled DPD

to go live with its first 'green city', served entirely by all-electric delivery vehicles.

The opening of the new DC was timed to coincide with the launch of Oxford's Zero Emission Zone, and signals DPD's willingness to support local authorities' green city plans.

The 25-25-25 strategy requires a significant investment; £111m is needed just to convert to an all-electric fleet in the 25 cities. However, DPD is fully committed to all-electric DPD deliveries in the remaining 24 cities by 2025.

THE JOURNEY TO ELECTRIC

Electric vehicles (EVs) are typically 40% more expensive than their diesel equivalents, but the drive to become an all-electric delivery company has issues beyond just cost. Supply of suitable last-mile all-electric delivery vehicles is undoubtedly one of the biggest challenges that companies face.

DPD now has over 1,000 all-electric vehicles on the road, delivering every day. This is a massive increase – from just 149 vehicles at the start of 2020 – that has required an innovative approach.

DPD was the first company in Europe to order from SAIC Motor, the largest EV carmaker in China. The fleet now boasts 500 of the Maxus 3.5t long wheelbase vehicles and 250 of the Maxus

e Deliver 3 vans. These replace diesel vans and their arrival was key to DPD's all-electric delivery in Oxford.

DPD has also invested in micro-vehicles from specialist Norwegian manufacturer Paxster; it was the first company to import this last-mile vehicle, which delivers parcels in the area immediately surrounding DPD's London micro-depots.

DPD has also assisted with the development of the EAV cargo bike, the only delivery vehicle in the world that is simultaneously suitable for pedestrian zones, roads and cycle lanes and can make 135 stops a day – the same volume as a 3.5t city-centre diesel vehicle.

MONITORING AIR QUALITY

Clean air is a basic human need, which is why DPD is doing everything it can to help improve air quality in our cities – starting with decarbonising its fleet.

At the same time, DPD is helping to build awareness around the issue of clean air. Following a successful trial in London in 2020, earlier this year DPD announced the roll-out of a major new air quality monitoring programme across six of the UK's biggest cities.

Mobile pollution sensors are fitted to the roof of delivery vehicles and DPD Pickup shops; they take readings every 12 seconds to monitor pollution at street level. The sensors measure the fine particles PM2.5, which are one-thirtieth the width of a human hair. They lodge deep in lung tissue and are linked to many diseases including cancer and asthma.

DPD now has over 400 sensors delivering 1.5 million readings daily, providing real-time data that help visualise air quality issues and identify hotspots. This information is available free of charge for anyone to view, but DPD is also working with local authorities, such as the team behind the Birmingham Clean Air Zone as well as other key stakeholders and academics, so that the data can help to inform further research and local decision-making.

TYRES THAT HELP COMBAT POLLUTION

DPD's whole approach to sustainability is about joining the dots and working with like-minded



innovators to help solve big challenges like air pollution. Through DPD's involvement with London FreightLab, the team got to know electric vehicle tyre company ENSO.

Traditional tyres are made mostly from fossil fuels that emit more air pollution than exhaust pipes as they wear down. Tyre particulate matter (PM) pollution makes up 28% of all primary ocean microplastics.

NEW TYRES FOR EVS

Tyre pollution is an even bigger problem for EVs; their increased weight and torque wears tyres faster, meaning EVs often emit more tyre PM pollution than standard vehicles.

DPD is joining forces with ENSO to conduct full road trials of an innovative new tyre for commercial EVs, which is designed to reduce air and microplastic pollution.

BE A DPD ECO SUPERHERO

DPD has developed an app that allows shoppers to take full control of their deliveries. The app also highlights when a delivery is being made on an all-electric vehicle; when 50 of those deliveries have been made, DPD will plant a tree on the customer's behalf.

DPD is encouraging all shoppers to join the

Find out more

■ Full details of all DPD's sustainability initiatives can be found at green.dpd.co.uk



10 million people who have already downloaded the app and to take the first step towards becoming a 'DPD Eco Superhero'.

FUNDING RESTORATION

DPD's circular economy initiatives – including recycling wooden pallets and plastic shrink wrap – have helped fund a range of green projects. Perhaps one of the most impactful has been the planting of 79,000 trees at Wareham Forest – much of which is classified as a Site of Special Scientific Interest (SSSI) – following a devastating fire in 2020.

Anyone can apply for a grant from the Eco Fund via the DPD Green website (see below); in just over a year, DPD has donated £220,000 to community groups, educational facilities and startup companies to fund green, ecological or sustainable projects that benefit the environment.

COLLECTING PRE-LOVED CLOTHES

DPD's Eco Fund sits alongside other initiatives like ReLOVE which, in partnership with clothing company ASOS, sees DPD drivers collect pre-loved clothing on the doorstep and deliver it to one of five leading UK charities, free of charge.

It's all part of the company's wider drive to go the extra mile when it comes to delivering a clean, green service.

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- Solar guide 2021



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From October 20 to November 21, 2021, the Esteem team from Heriot-Watt University will represent the UK at the Solar Decathlon Middle East taking place at the world Dubai World Expo.

We will be competing against 10 solar-powered homes engineered by 10 international university teams. They will be judged on seven key elements presented through their design – sustainability, future, innovation, clean energy, mobility, smart solutions, and happiness.

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ROBERT LEWELLYN

Robert Lewellyn's FULLY CHARGED OUTSIDE

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The new commute

How to get around London without paying the congestion charge or relying on public transport

As many drivers know, the London Congestion Charge (LCC) and Ultra Low Emission Zone (ULEZ) can make journeys in the capital expensive, but they are crucial for reducing emissions and improving London's air quality.

During the first Covid-19 lockdown, these charges were suspended to help critical workers get to work and allow essential deliveries to take place. This meant that those travelling in the congestion zones saved over £20 a day.

With Covid-19 vaccinations increasing and the UK returning to normality, more drivers are on the roads, emissions are on the rise and the LCC and ULEZ charges are back.

On June 22 last year the LCC fee increased from £11.50 to £15 per day and now operates seven days a week – between the hours of 07.00 and 22.00, rather than 07.00 and 18.00.

IS PUBLIC TRANSPORT THE ANSWER?

Use of public transport is on the rise, but it's still much lower than pre-lockdown levels. Many understandably remain cautious; buses and trains have multiple touchpoint surfaces and maintaining social distance can be a challenge.

This is one reason why city workers are still reluctant to return to their London-based offices. Add public transport delays and the average annual cost of commuting into London by train – £5,114, 18% of the average annual London post-tax salary – and it is no surprise that London workers are looking at other transport options.

One alternative is to drive an electric vehicle (EV). EV adoption is on the rise, with new vehicle registrations continuing to grow in number. In May 2021, there were 22,975

new registrations (13,120 battery electric vehicles and 9,855 plug-in hybrids).

HOW TO AVOID CHARGES

Until 2025, all pure electric cars, vans and other vehicles will be exempt from the congestion charge because they have zero tailpipe emissions. This means that if you purchase a fully electric vehicle and register it with Transport for London (TfL), you won't be required to pay the congestion charge in London. Drivers of electric vehicles are also exempt from paying the Ultra Low Emission Zone (ULEZ) charge.

The average list price of an EV is currently around £35,000, which is double the cost of a new conventional vehicle. For those who feel the purchase price of EVs is still too high, a lot of money can be saved by renting an EV.

As an example, renting a BMW i3 from EVision Electric Vehicles will cost £5,040 (including VAT) per year, based on a three-year rental period. That is £74 less per year than paying for public transport, with the added benefits of staying in your own bubble.

Renting a BMW i3 from EVision comes with other advantages, too – including a free charging cable and free EV charging point, which can be installed at your home address or place of work. It also includes a 20,000 annual mileage allowance and maintenance and service costs.

Find out more

- Discover the range of EV rental options available at evrent.co.uk, or call EVision HQ on **01634 914063**

CHARGING FORWARD

Nick Wood, CCO of Hypervolt smart EV chargers, explains why the future is electric



The UK and the world are switching to clean energy and transport, and electric charging is going to be the backbone of our clean energy system.

Today we're still at low numbers, but seeing an electric car in the street is no longer the 'wow' moment it was a few years ago – particularly in cities. Looking ahead to the next few years, all projections show the electric vehicle (EV) market is about to accelerate massively.

Did you know that more electric cars were sold in the UK in 2020 than in all previous years combined, and that in 2021 we're well ahead of schedule to more than double that? That's great news for our health, neighbourhoods, wellbeing and future – not to mention the raw pleasure of driving.

It's also a pattern that's repeating around the world; we're at the tipping point of a global transformation in several of the world's largest industries. This fourth industrial revolution, switching our energy and transport systems from fossil fuels to clean electricity, has some big implications for how we live our lives.

THE GRID NEEDS FIXING

To manage such a wholesale revolution at speed, we need a complete overhaul of the way we think about our electricity infrastructure.

Contrary to common belief, the National Grid – the core of our national electricity system – is probably going to be fine. It's made to last, with sufficient capacity and flexibility built in. At the

other end of the spectrum, homeowners and tenants are increasingly having their smart energy needs accounted for at home, in an increasingly digital, connected and smart world.

The missing piece is what's in between: the distribution network. The poles and cables you can see outside your window are the electricity grid's roads. Many were built 50 years ago for a radically different world, with much less power.

Electrifying heat and transport on a tight deadline means there's a growing market for new bits of hardware with high electrical loads, that can double or triple the power our homes use.

Some have estimated that, even if we wanted to and money were no issue, we wouldn't have enough time to dig up all the streets and

replace the cables if we're serious about getting to 100% zero-emission vehicle sales by 2030. So if we want to keep buying EVs, we need a solution that's smarter than digging up old cables – and that solution is software.

ON THE SHOULDERS OF GIANTS

The key to the best advances in most modern technology is software. Think about the best mobile phones or laptops, or the best buying experience or customer service from your favourite stores and brands. Part of it is build quality and design, but the majority is software.

While the rockets come in different shapes and sizes, years of progress in data, communications and computing make the difference between Apollo 11 on the one hand and SpaceX, Blue Origin and Virgin Galactic on the other.

So making advanced products that users love is about software. The same applies to electric vehicles – in particular to electric vehicle charging. There's a huge opportunity to use smarter tech in today's energy and transport revolution: we're standing on the shoulders of giants.

Instead of 'energy meters in a box', we should be thinking about 'computers in a box', with a powerful cloud directing electricity to where it's needed most. It's big data, real-time connectivity and intelligent control that's going to help us accelerate the switch to clean energy and transport, making a 100% clean power grid possible while reducing the cost of energy.

We also need to radically rethink how we use our cars; the average car is parked for 23 hours of the day and, where electrified, it is effectively a battery on wheels. At a national scale we'll have one giant storage resource to balance our clean power grid, and the charger is what will connect our energy and transport systems.

One of the exciting things about that is that it is a worldwide transformation, but one that is highly localised and personalised.

A PEOPLE-POWERED REVOLUTION

When we talk about solving problems on local grids we need local solutions. It's intelligent control of the battery in your car that's going to help keep the lights on in your neighbourhood, charging with a local surplus of renewable power and supporting your local energy system. So while each charger forms part of a giant intelligent network, the result is highly local.

EVs also put control back into people's hands. If I asked you how much you've spent on petrol in the last three years, or how much you used last Wednesday, would you be able to say? In the age of electrification, distribution, information and data, you can. Intelligent software enables us to quantify how much we're saving from going electric, visualise how much carbon we're saving and, with smarter energy tariffs, even who and



Hypervolt home chargers are compatible with over 100 different EV models

where we're buying the power from. Software means consumer empowerment.

To create a service we can really get excited about in the clean energy transition, we need powerful platforms. Accessible and intimate customer service, just-in-time manufacturing and same-day delivery can all be powered by software.

THE FUTURE IS ELECTRIC

It was just 10 years ago that I had my first ride in an electric car: a G-Wiz, one of just 5,000 sold globally. Purple and yellow and made of plastic, you could fit in the back seat if you sat sideways, and it could drive 50 miles on one charge, at up to 50mph.

Electric cars have come a long way since and are now faster, better to drive and getting

Find out more

■ Discover more about Hypervolt's smart solutions for home charging at hypervolt.co.uk

cheaper than their petrol and diesel counterparts. However, they're just one piece of our electric future. 2021 has already been dubbed 'the year of the electric van,' but we're talking about so much more than that.

The market leaders in driverless car technology are proposing 'level 5' autonomy from 2022 – that means driving with hands off the wheel, eyes off the road, reading a book.

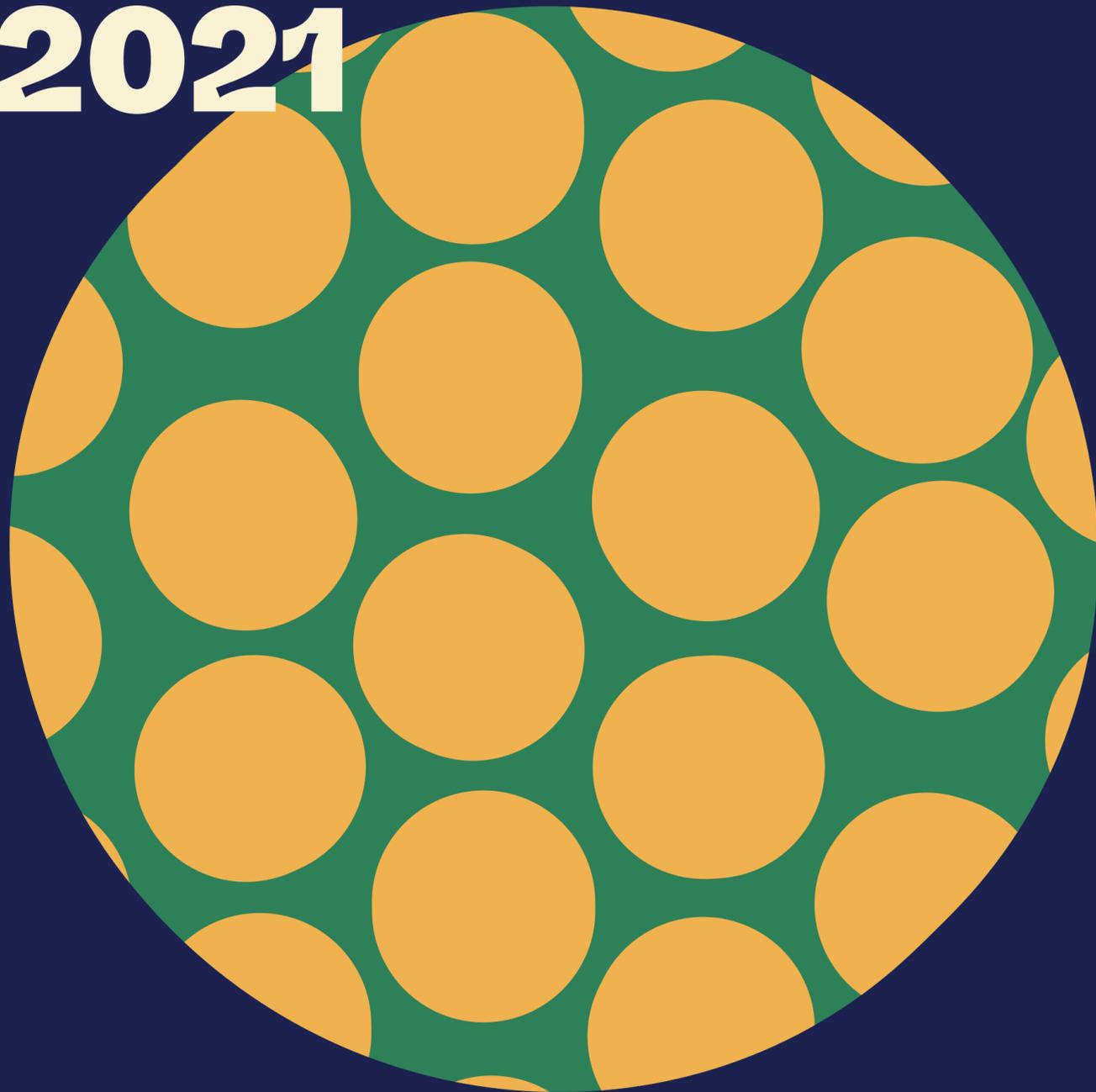
Aviation and shipping are responsible for 12% and 3% of transport emissions and rising fast, but fully electric car ferries are already operational in Europe, with 'mega chargers' on either shore charging their batteries between legs. China is piloting fully electric container ships.

150-seater electric aircraft are touted for 2030, and Norway has banned short-haul fossil-fuelled flights from 2040. Even more excitingly, flying pizza delivered by zero-carbon eVTOL drones for last-mile delivery services is being piloted in the United States, while in the UK supermarkets are trialling wheeled delivery robots. Our first driverless aerial taxis for public use are planned for the middle of this decade.

Air travel today is all about long distances, large jets, large airports and a guilty conscience. In future it could be a complex network of many smaller vehicles with rooftop walk-on/off services. If it moves it can be electrified, and as the world goes electric only truly smart charging can balance a 100% clean power grid.

To keep accelerating the switch to clean power and providing products people love, we need to focus on powerful software, intelligent design and user experience – made in Britain.

P.E.A AWARDS 2021



IN ASSOCIATION WITH



Nominations are open for 2021's P.E.A. (People. Environment. Achievement.) Awards!

Now in their 11th year, the UK's leading sustainability awards are looking for the individuals and teams who are pioneering change in their fields - whether they work for large multi-nationals or small NGOs.

Alongside the usual categories, this year nominations have opened for Climate Pioneers and Influencers - including bloggers and celebrities - who inspire their followers to live more consciously.

CATEGORIES

- ARTS
- CLIMATE PIONEER
- DIGITAL TECHNOLOGY
- ELECTRIC VEHICLE
- ENERGY
- FOOD & DRINK
- GREENEST FAMILY
- HEALTH & WELLBEING
- INFLUENCER
- MONEY
- NATURE
- PRODUCT
- TRAVEL
- VEGAN

ENTER 2021's P.E.A. AWARDS:

Calling all EV enthusiasts, teams and businesses!

Electric vehicles (EVs) are the future, and people all over the world are wondering what's next for the sector.

Cars, bikes, boats, buses, trucks, surfboards and scooters all have electric counterparts, with a whole load of gadgets and gizmos to go with them.

If you designed, launched or sell a product or a service that is helping to accelerate the shift to EVs, we want to hear all about it.

Enter or nominate your EV or sustainability heroes at peaawards.com.

All entries are free. The closing date for entries is midnight, 07 September 2021. Good luck!

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