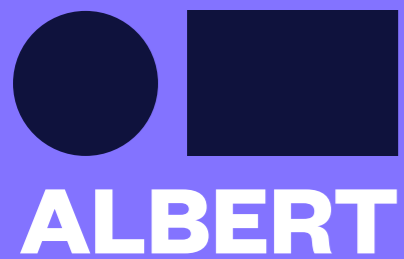


Creating a
sustainable
future



Annual Review 2021



2021 Overview

01

Foreword

2021 proved to be a hugely significant year for albert, the industry and the planet.



Carys Taylor
Director of albert

It marked albert's tenth year running and its first as an official BAFTA Enterprise; the industry, stepping out from lockdown, stepped up to the call to act on the climate crisis; and the world declared 'it's Code Red for Humanity'.

Emerging from pandemic there's been a silver lining. We, as individuals, families, businesses and industries asked: How do we return to normal? Do we even need to return to normal? We dared to ponder the possibility that we could 'make the most of the crisis' and keep the things that made our lives better and reintroduce the stuff we missed. The screen industries are apparently no exception.

Ours was an industry, which not only found ways to keep going when everything ground to a halt and felt the incredible pressures of unprecedented demand and skills shortage, but seemingly adopted some of those sustainable practices for good.

When reflecting on 2020's data, where average emissions had dropped by 52%, albert's last Annual Review told a cautionary tale of 'this is just a blip'. However, while we have seen an increase in emissions in 2021, they have not returned to pre pandemic levels of 2019, suggesting that production companies are indeed 'making the most of the crisis'.

There was also a seismic shift in the industry's recognition of the creative opportunity and the unique role we have in reaching into living rooms far and wide, enabling audiences to engage with the most significant issue facing us all today.

This was recognised by the ground-breaking Climate Content Pledge, signed by the CEOs of broadcasters and streamers across the UK and Ireland, sending a clear signal that there's a demand for more and better climate content, and creating an energy and palpable sense of urgency and an upsurge in interest from commissioners and writers to get to work, taking audiences further on a journey that many had already begun for themselves.

We have an exciting few years ahead – and a critical window of opportunity – to harness this energy and do what only this industry can: tell stories. We'll continue to support the production community to address their impacts on the environment, recognising the importance of biodiversity and the natural world and shape our international offering to enable more local support, knowledge and expertise. But it's through the stories we tell that we can truly engage with the wider public in this crucial moment for humanity.

albert's mission for the past 10 years has been to reduce our impact - now's the time to make one.





Executive Summary

This annual review reflects back on albert's activity from January to December 2021

146%

More Carbon Action Plans Completed in 2021

Globally, 2021 proved to be another turbulent year. The pandemic still had a stronghold on countries around the world with the UK beginning the year in another lockdown. For the screen industry, the adaptations made to work practices in 2020 continued with working from home the norm and strict COVID-19 protocols observed when on set.

Despite the uncertain start to the year, 2021 also proved a year of celebration for albert, with a late summer party to celebrate our 10th anniversary and the launch of the Climate Content Pledge at COP26, with 12 broadcasters and streamers in the UK and Ireland the first to sign up and commit to more climate storytelling on screen. 2021 also proved a record-breaking year for our toolkit with a 117% increase in new companies using the carbon calculator and a 146% increase in completed carbon action plans.

In 2020, albert reported there had been a 52% reduction in the carbon emissions that one hour of television contributes to the environment from 2019 – not surprising given the pandemic. When reviewing 2021 data, it was expected that the average hour footprint would jump back to a figure closer to 2019, happily however, the average emission intensity for 2021 is 5.7t CO₂e - a 30% increase. More details on 2021's data can be found in section three.

2021 saw albert grow its membership with 19 new members across its Directorate, Consortium, Affiliate, International and Education groups. It was also the year that albert launched the News Consortium with Krishnan Guru-Murthy as Chair.

2021 Highlights

Jan

- A+E Networks join albert Consortium
- News Consortium launches
- albert launches comprehensive update to its toolkit

Feb

albert was delighted to welcome CAMA Asset Store and Location One as Industry partners.

CAMA actively supports film & TV with sustainable storage and asset management. Their unique digital platform helps productions to manage physical assets online and redistribute them at the end of the shoot.

Location One are the shoot hire experts, offering low carbon and resource-efficient products and services, including battery store tower lights, location mats, flexible recycling pods and 'green loop' waste collections.

They join albert existing Industry partners Sargent-Disc, Good Energy and Green Tomato Cars.

Mar

- 'Taking Your Suppliers to Net Zero' campaign launched

May

- albert hosts exclusive screening of 'The People vs Climate Change' with introduction by Nigel Topping, UN Climate Champion.



June

- Krishnan Guru-Murthy announced as Chair of albert News Consortium
- Launch of specialist News Training module



July

- A group of Finnish industry stakeholders led by the Audio-Visual Producers Finland (APFI) join as an International Partner
- Quebec joins the albert partnership in Canada, which is led by Reel Green

Aug

- 100 companies signed up to Creative Energy



Sept

- albert turned 10 with a special party hosted at BAFTA's 194 venue
- STV, AMC and S4C welcomed to albert's Consortium
- Third 'Subtitles to Save the World' report released
- Six new universities joined albert's education partnership



Oct

- albert takes part in BBC's Climate Creatives Festival



Nov

- CME (Central Media Enterprises) and TV4 Media join albert as international members.
- albert worked with BBC, SKY, ITV, STV, C4 and Natural Capital Partners to take a series of events to COP26 in Glasgow.
- Pan Broadcaster climate content pledge is launched. With 12 TV broadcast and streaming signatories from the UK and Ireland the first to sign up.



2021

2. Educate

albert's activities can be broadly broken down into three key areas: Educate, Enable and Celebrate.

2.1 Training

Now in its seventh year, training remains one of the staples of albert's offer. Hosted for free to anyone working in the industry, albert's online training courses provide everyone from a production runner to an HOD, the opportunity to learn more about the science behind the climate crisis, how it applies to our industry and the changes we can all make to reduce our environmental impact.

Originally just one training module, albert now offers 12 different types of training with Sport Editorial, Sport Production and News modules launched in 2021, alongside a refresher training course for those who haven't trained with us for more than three years.

In light of the Climate Content Pledge launched at COP26, albert is now further developing its editorial training modules, offering targeted guidance and support to

those working in scripted and non-scripted. In 2022, albert will seek to certify in-house sustainability training to allow production companies to further increase reach and ensure all employees have access to a sustainability training module.

"I wasn't expecting anything from the meeting. Mainly because I thought what can you say about sustainability that isn't new. Yes, the arrogance of me! But I was wrong. It was a very useful listen. Listening got me thinking of sketches and ideas for a new kind of entertainment show we are developing."

Trainee from Springboard Pictures Birmingham

2,808 ^{107%}

Production Training Attendees

489 ^{8%}

Editorial Training Attendees

173 ^{First Year}

Sports Training Attendees

1,306 ^{First Year}

Refresher Training Attendees

54 ^{First Year}

News Production Training Attendees

41

Companies Trained In House

2.2 albert Education Partnership

The albert Education Partnership launched in 2019 with the aim of arming students entering the screen industry with an understanding of the environmental challenges our industry faces and the steps being taking to solve them.

From the science behind climate change to albert's toolkit, the course spans the theoretical to the practical, meaning students entering the workforce have a solid understanding of how they can help to bring about positive change and practical action to the production office.

In 2021, our Partnership welcomed five new members bring the total number of universities in our partnership to 30. As the course develops the aim is to take the module to further education colleges and celebrate the work of our albert grads through screenings and events.

Leeds Arts University

"Sustainability is a high priority for both Leeds Arts University as well as for our filmmaking course so the albert Education Partnership is vital for our students. We've embedded the albert education course directly into the final year of Filmmaking when the students are undertaking individual major project films that are between 10-20 minutes long.

We have had projects with sustainable-focused sets and props, through to storylines or even sustainable ways of showing their films.

Our students have all commented about how much more prepared they feel to enter the workforce and how the course will help them bring new ideas to the industry as well as clearly understand how the albert scheme embeds into the production process already.

The albert course gives the responsibility back to the students and makes them feel like they can be the change makers in the industry workforce through their sustainability knowledge."

Tom Chimiak
Senior Lecturer (BA Hons Filmmaking)

30

Higher Education Institutes
involved in the albert
Education Partnership



2.4 Directorate and Consortia

albert brings the industry together through its Directorate and Consortia to share knowledge and best practice. Collaboration is key to albert's success and it's thanks to our members that we are able to work in this way.

News Consortium

2021 saw the launch of the News Consortium with Krishnan Guru-Murthy as Chair.

The group was set up to discuss and act upon the unique environmental challenges and opportunities faced by the broadcast and production community working in news television.

Since launch, the group has worked significantly towards creating a carbon factor benchmark for newsrooms and implemented use of the albert toolkit to measure the impact of news programming.

In 2021, Sky, ITV and C4 all received albert Certification for their News Programming. BBC received certification for Breakfast, Newsnight, Sunday Morning Live, and Politics Live as well as for their election coverage.

“To have credibility with our audiences in our coverage of climate change and the transition to net zero it is vital that we in the news industry also change our ways and play our part. I'm delighted to be chairing the albert News Consortium to help drive that change.”

Krishnan Guru-Murthy
News Consortium Chair



Sports Consortium

Chaired by Hazel Irvine, the Sports Consortium collaborated on the 'Taking Your Suppliers to Zero' campaign to support reductions in emissions from across the supply chain. Editorially there was a huge focus on weaving climate commentary authentically throughout programming which resulted in the BBC's 'Summer of Sport', Sky's 'Season of Sustainability' and BT Sport's 'Green Routine Initiative'.

Taking Your Suppliers to Zero

Carbon emissions in supply chains are on average four times those of a company's direct operations and yet they are often overlooked.

Addressing these indirect emissions (also referred to as Scope 3 emissions) can help to not only reduce a company's environmental impact but will also help a company find efficiencies in the supply chain.

Working with the Sports consortium, albert created a bespoke procurement and policy document to help productions (in sport and beyond) work with their suppliers to tackle emission in their supply chains.



Enable

ESB

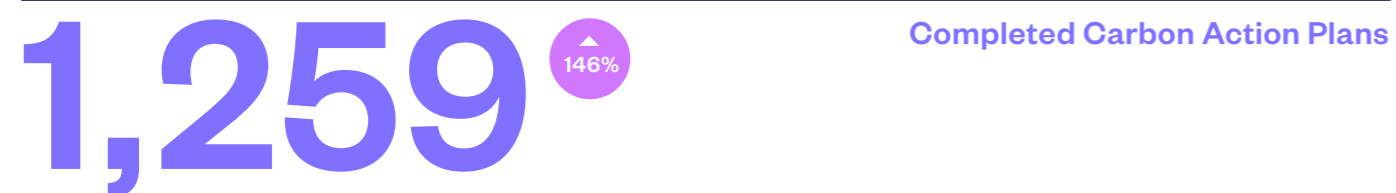
3. Enable

albert is proudly industry-led, working with its Directorate and three Consortia to drive strategy forward, develop tools, reports and initiatives that truly support the TV and Film community on its journey to Net Zero.

3.1 Industry Impact

At the heart of albert lies its calculator and certification toolkit. The data collected here can help to inform and guide our industry on its route to Net Zero. At the heart of albert lies its calculator and certification toolkit.

The data collected here can help to inform and guide our industry on its route to Net Zero. In 2021 albert recorded the following:



3.2 Emissions Per Hour of TV

2020's low figure was always expected to be an anomaly because of the global pandemic and subsequent lockdowns. The question was whether 2021's emissions would return to a figure closer to 2019's 9.2 tCO2e.

This is perhaps in part because of the ongoing effects of COVID 19, particularly at the start of the year and partly because some of the practices from lockdown (remote working and reduced travel) have remained in place.

While increases in carbon emissions can never be seen as positive – it is encouraging to note that the average hour in 2021 has remained relatively low, and hasn't immediately jumped back up.

Yearly Average Emissions (tCO2e)



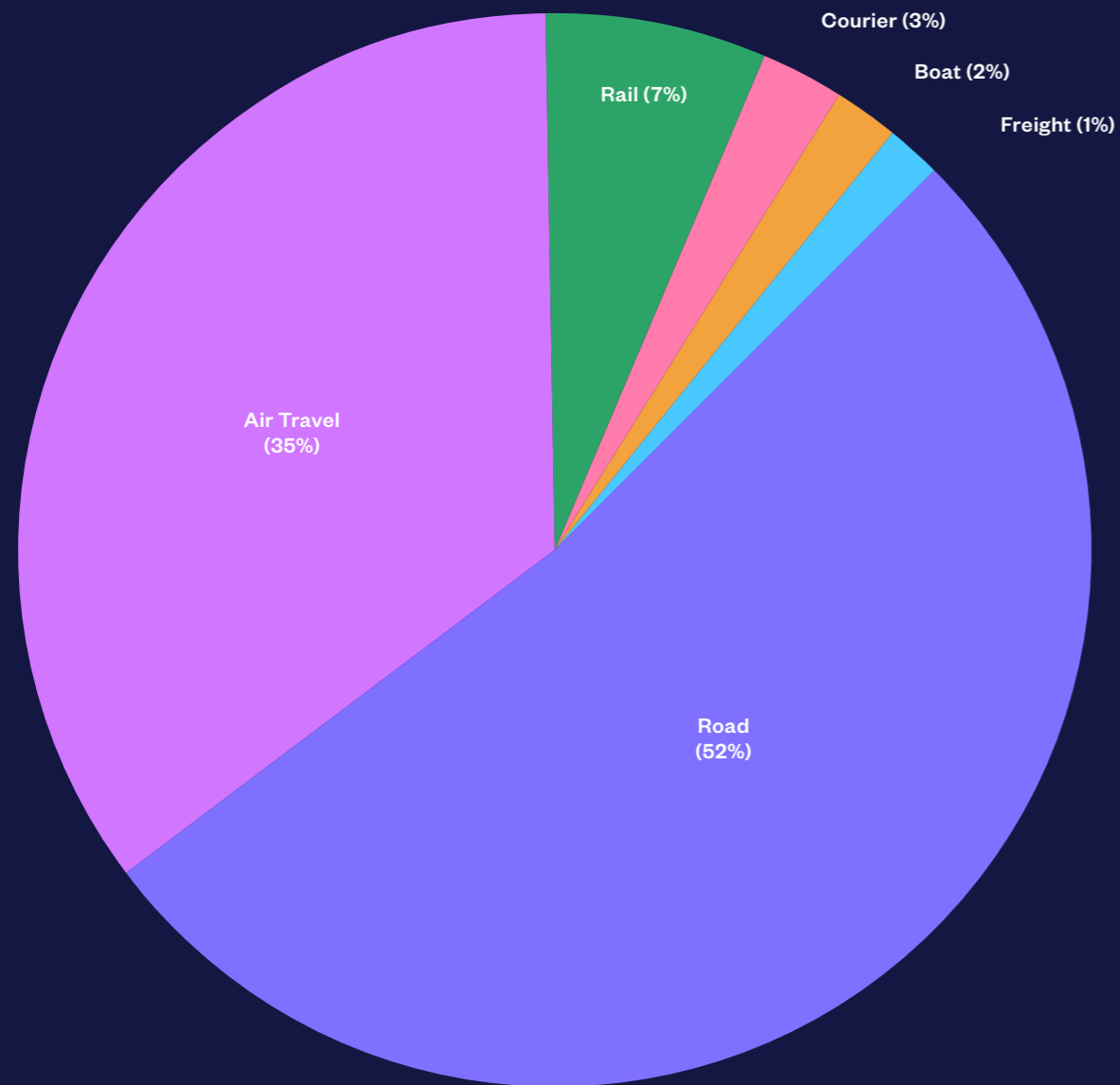
Travel

Travel remains the biggest part of a production's carbon footprint, regardless of genre.

Delving further into this part of the footprint, the data shows us that road and air travel are the most prevalent transport types used by production.

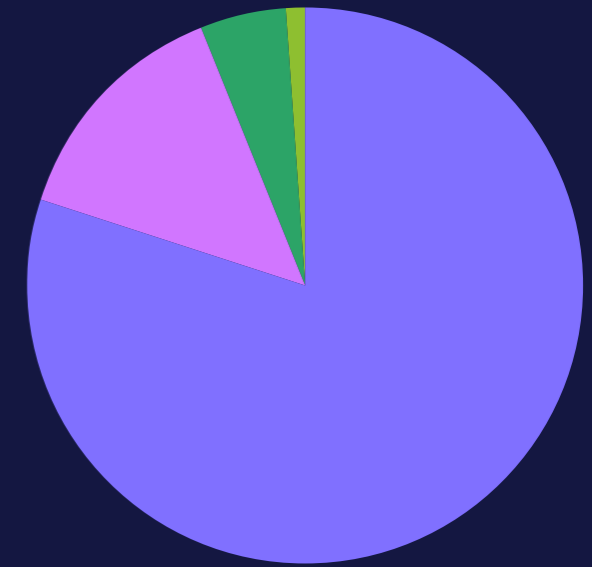
The pie charts on the right provide further detail on these two transport types.

Transport Type



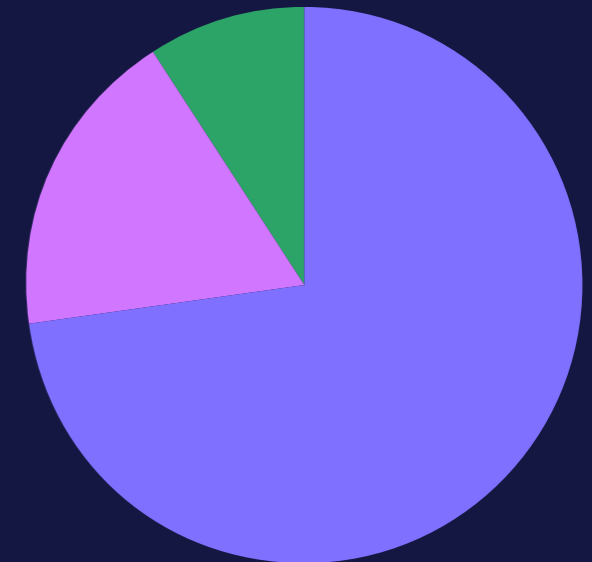
Flight Class

- Economy (80%)
- Business (14%)
- Premium Economy (5%)
- First (1%)



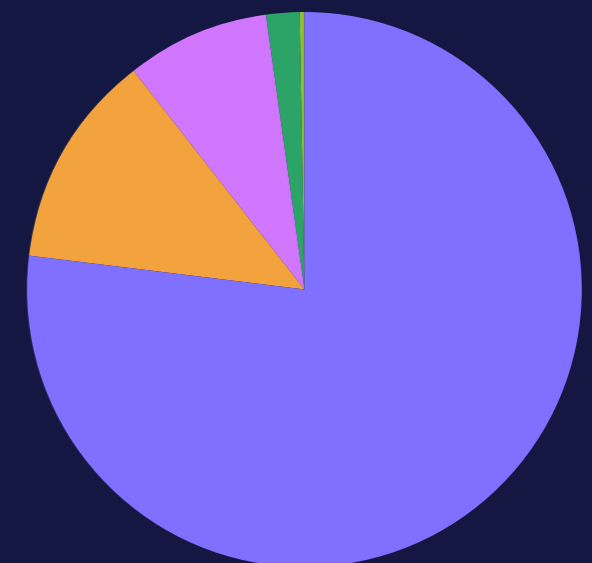
Flight Distance

- Long Haul (73%)
- Medium Haul (18%)
- Short Haul (9%)



Car Fuel Types

- Petrol (77%)
- Unknown (13%)
- Diesel (8%)
- Hybrid (2%)
- Electric (<1%)



Filming Spaces

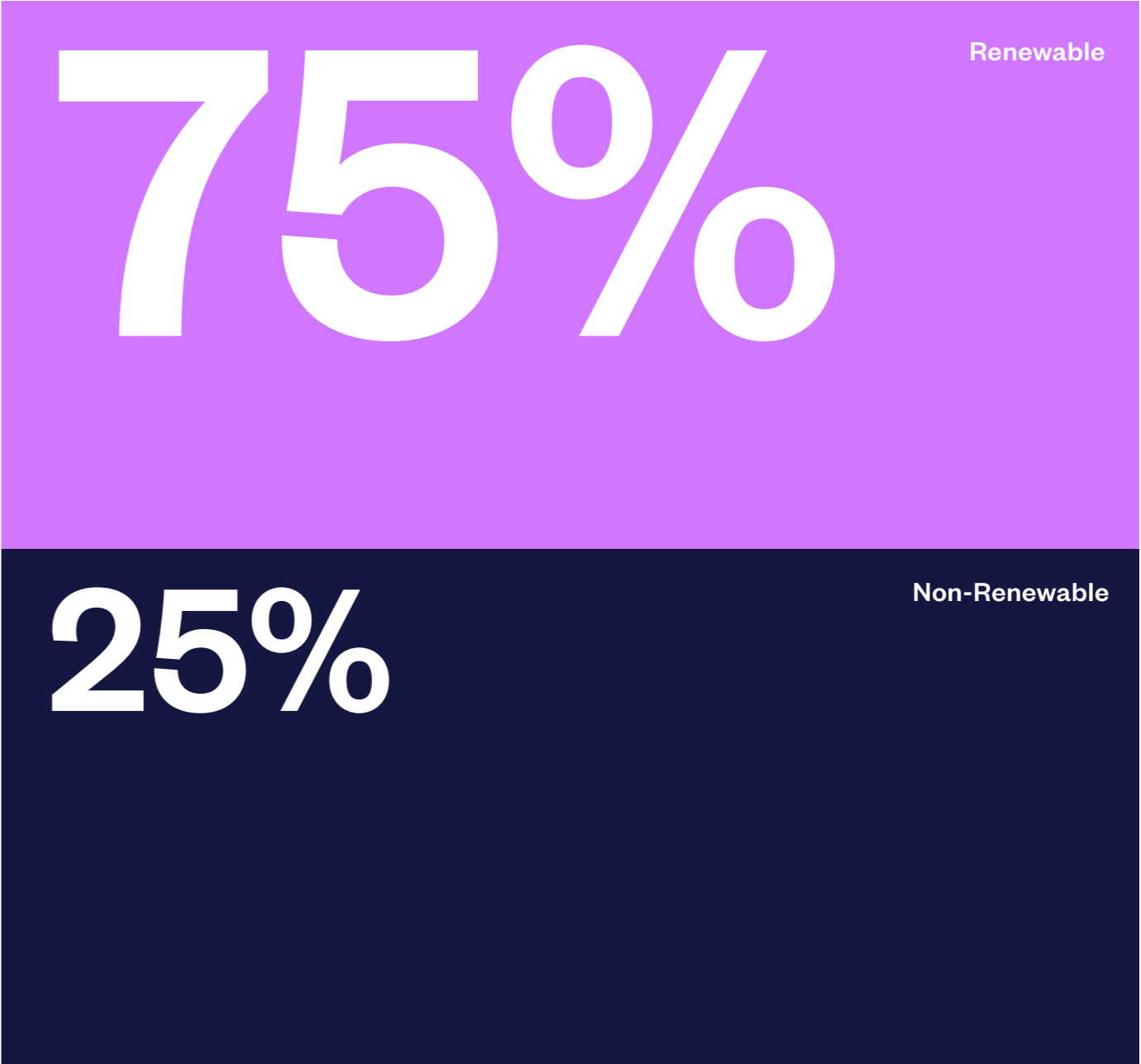
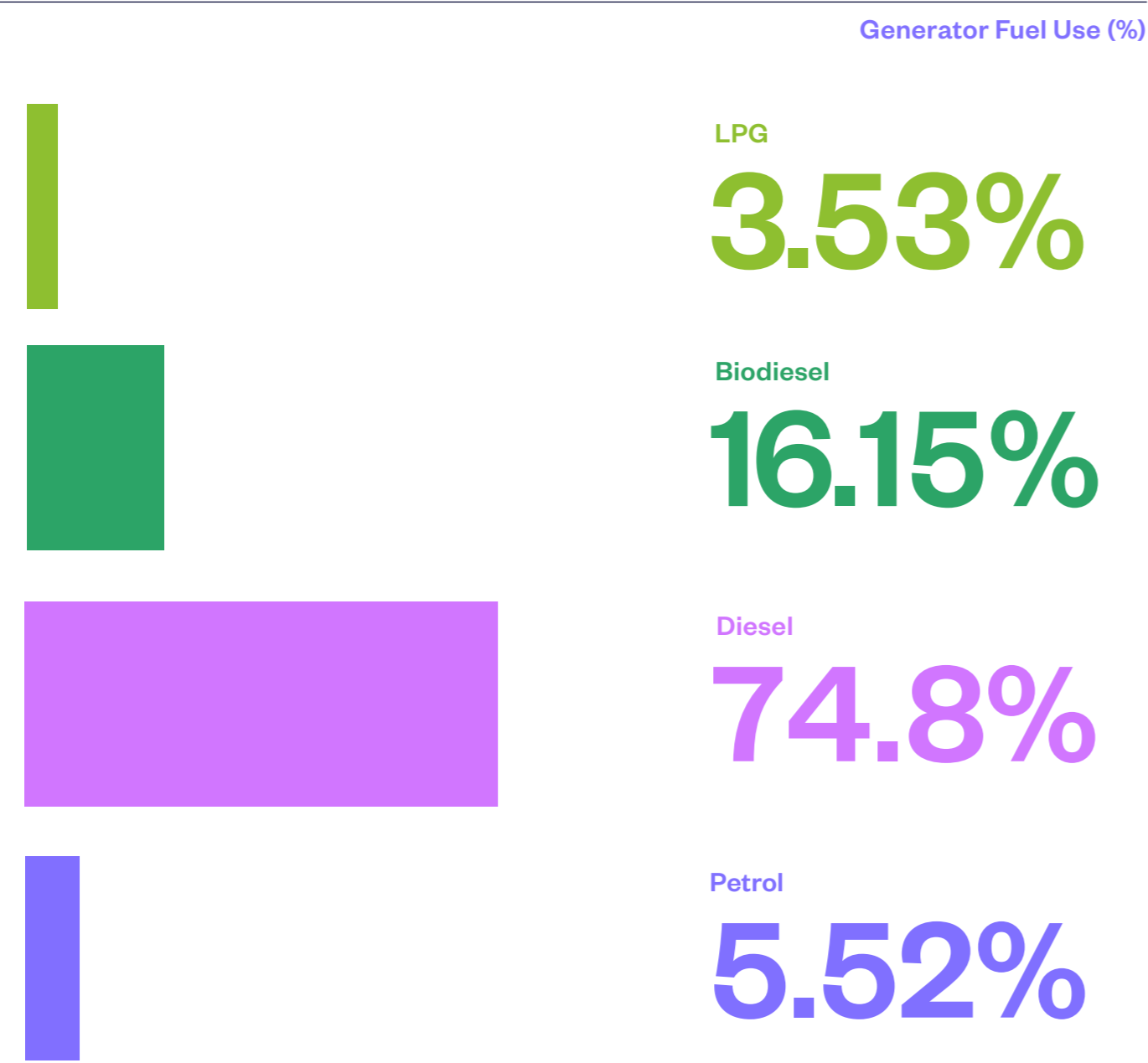
Filming spaces and the energy used on location account for a significant proportion of a production's carbon footprint

In 2021, the different types of fuel used in generators was as follows:

*Please note that HVO and renewable diesel are included within the biodiesel figure in addition to all biodiesel blends, given they are second generation biodiesels.

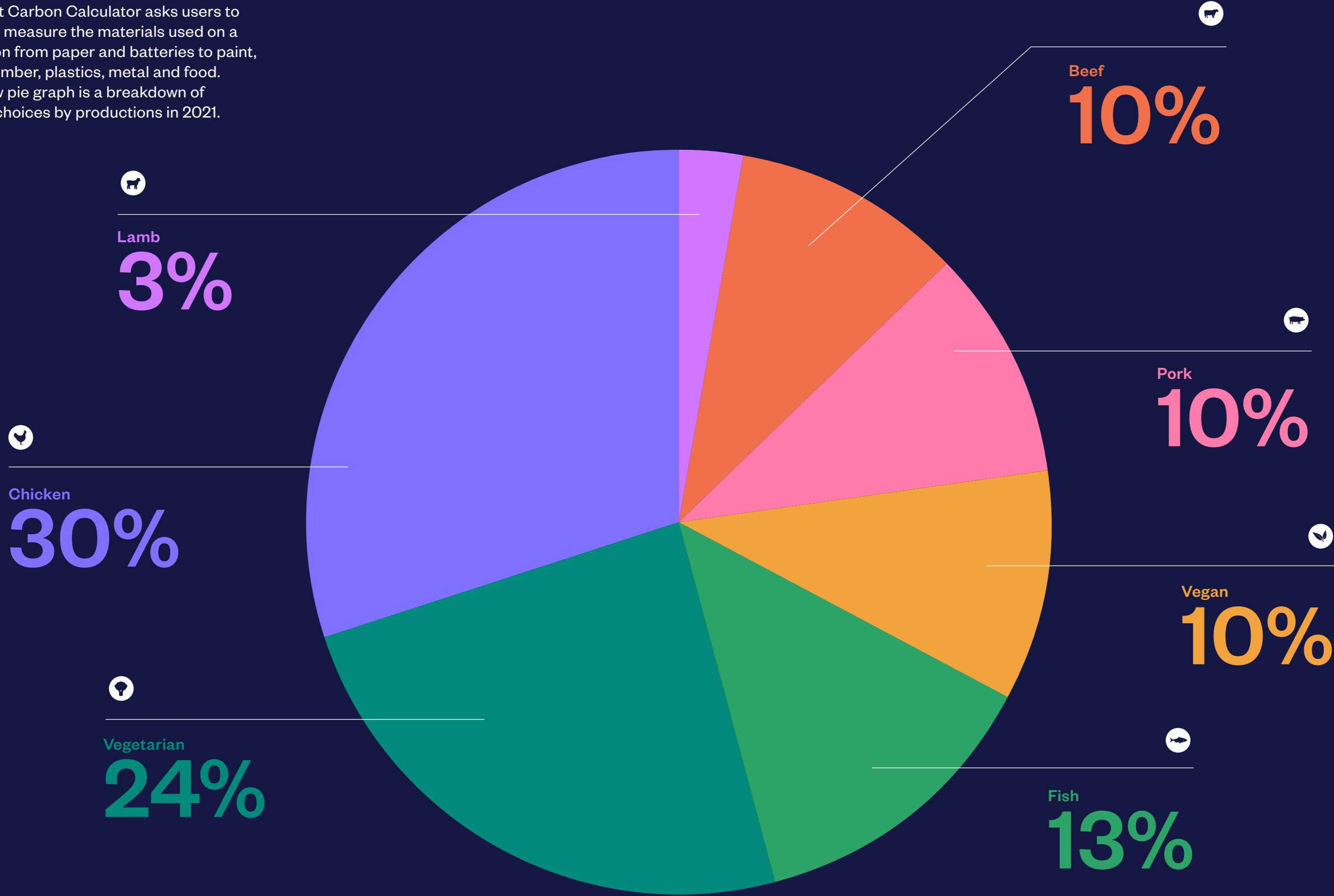
Non-Filming Spaces

Non-Filming Spaces ie production offices are often the third largest part of a production's carbon footprint. It is encouraging to see how many Non Filming spaces ran on renewable power in 2021.



Materials

The albert Carbon Calculator asks users to track and measure the materials used on a production from paper and batteries to paint, textiles, timber, plastics, metal and food. The below pie graph is a breakdown of catering choices by productions in 2021.



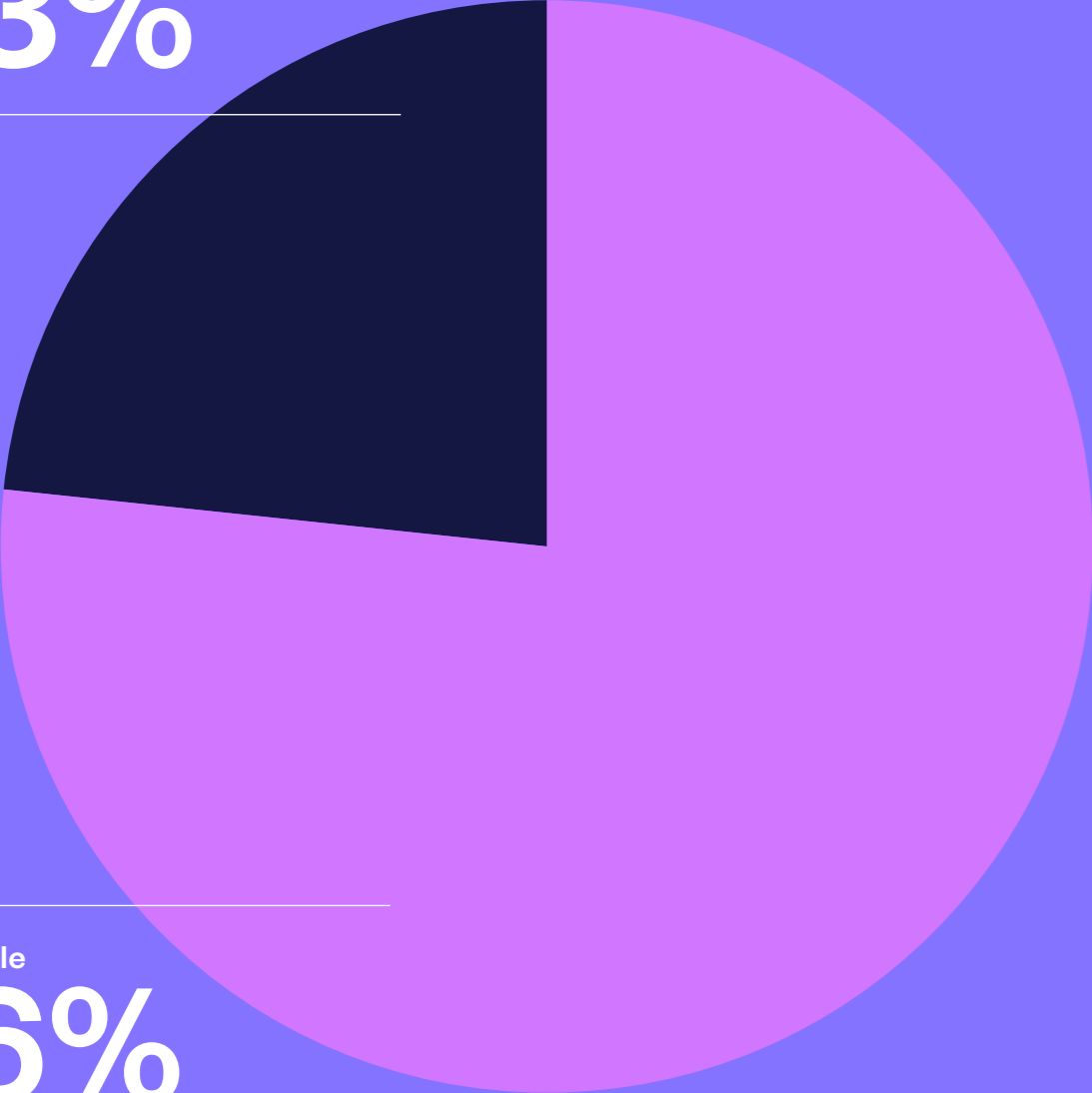
Post-Production

The carbon impact in post production comes predominately from energy use. In 2021, over 76% of the post production houses used were powered by renewable energy.

Energy Consumption



Non-Renewable
23%



Renewable
76%

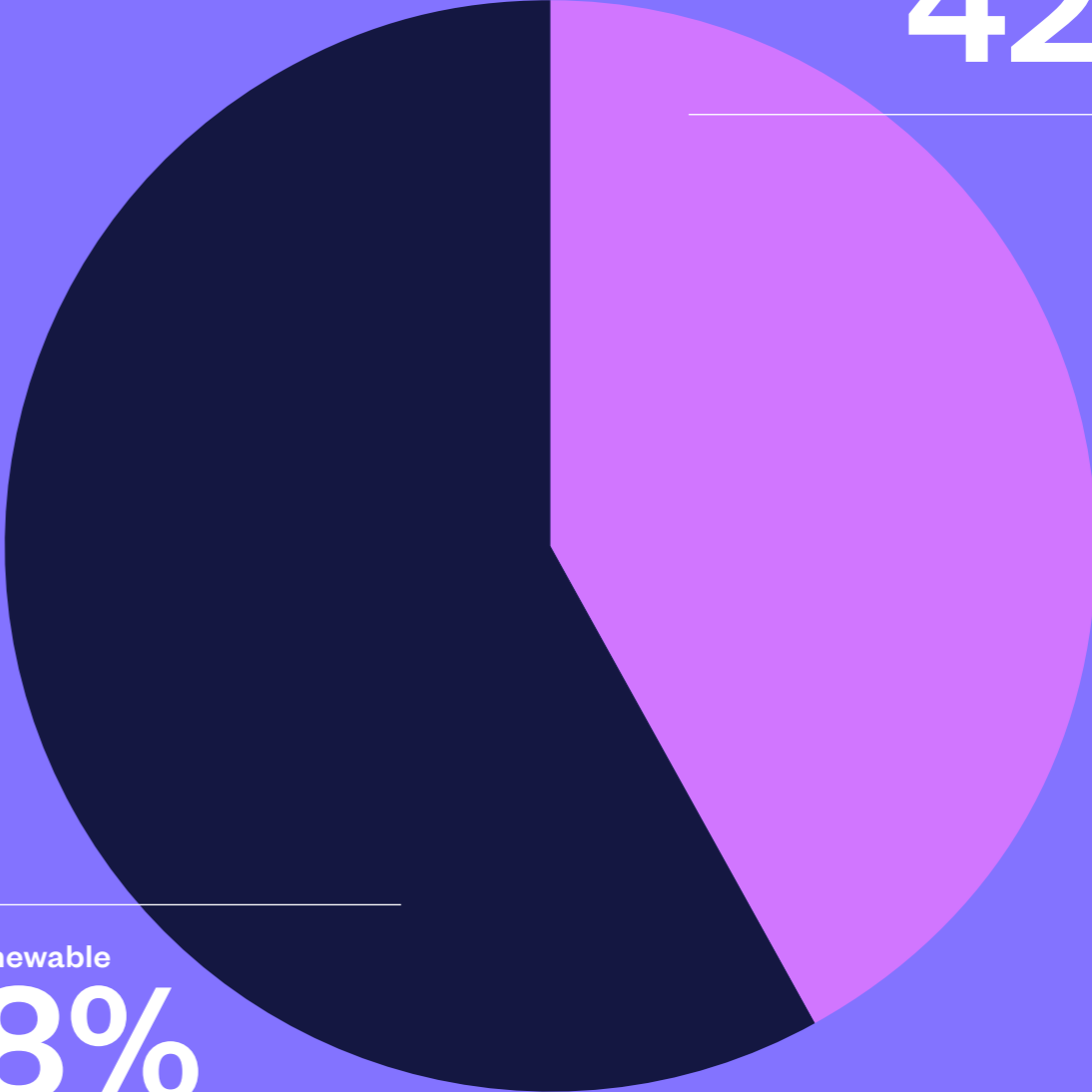
Accommodation

albert asks users to track the type of accommodation they use when on location and whether that accommodation uses renewable power. In 2021, only 42% of the accommodation chosen ran on renewable power.

Energy Consumption



Renewable
42%



Non-Renewable
58%

VECTAR Project Case Study

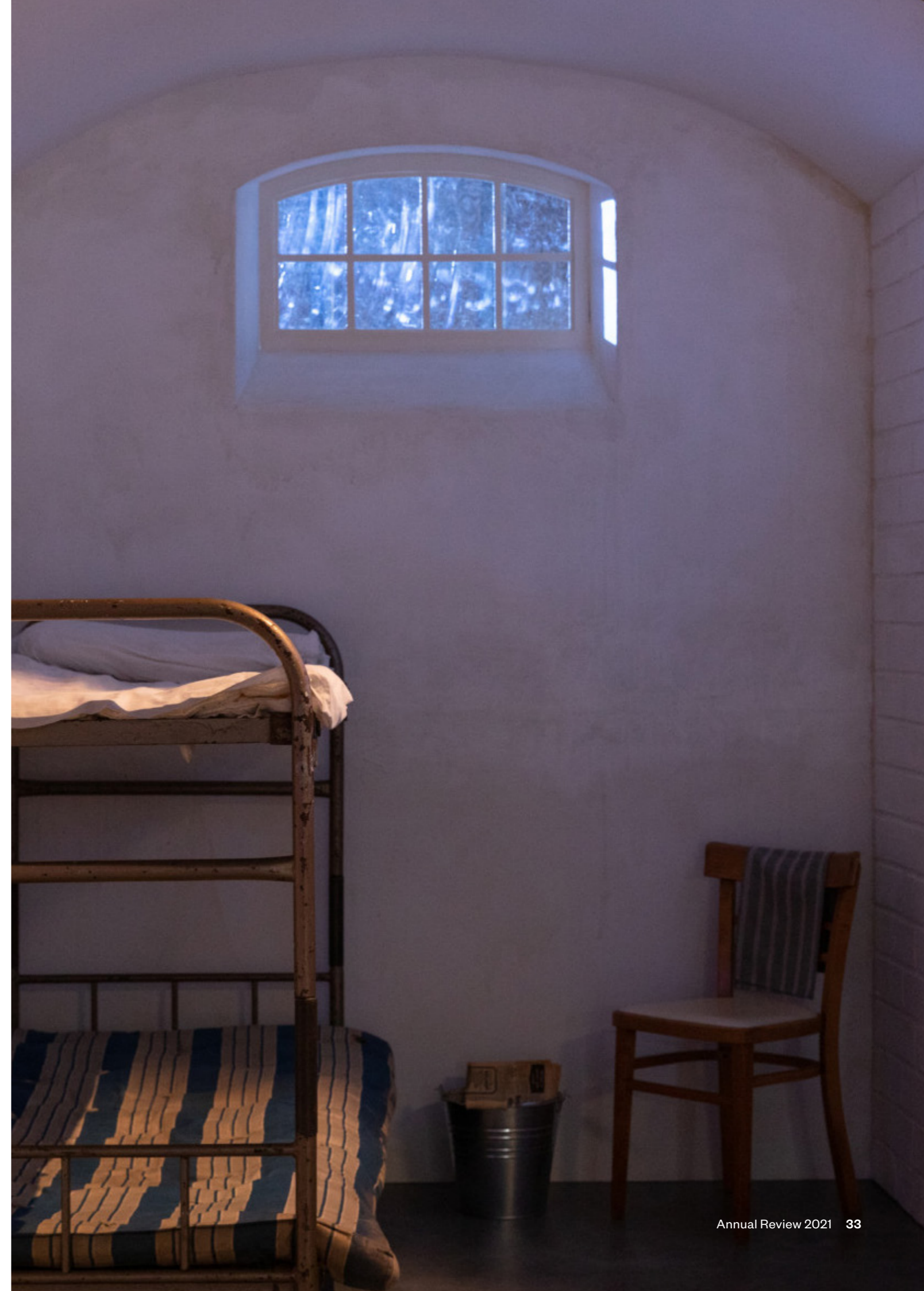
Manchester's VECTAR Project is taking the lead in encouraging the production industry to switch to cardboard sets and reduce its overall carbon footprint.

The project began with the basics in the studio: LED lighting, plant-based catering services, solar panels and so on. They then stepped it up, with virtual production and sustainably built sets and props.

Their innovative cardboard props are particularly ingenious; 90% lighter than wooden props but with the same strength, quick to build and assemble, made from sustainability sourced wood (using forestry techniques that go beyond those of the FSC) and 100% recyclable. It's an innovative solution to support a busy production crew.

90%
Lighter than wooden props

100%
Recyclable



3.3 Industry Influence

As well as measuring our industry’s impact, albert also recognises our industry’s influence and the role they play in bringing climate stories to our screen.

Starting the Conversation

With the average UK viewer watching three hours and 46 minutes of TV per day, it’s easy to see why the screen industries offer the greatest opportunity to tackle the climate crisis. No matter the genre, albert believes there is always a way to authentically bring conversations about the climate into a programme.

“If climate isn’t in your story, it’s science fiction.”

Dorothy Fortenberry
Screenwriter and Producer

As part of its updated Carbon Action Plan, albert now asks users to highlight how their programme is considering the climate through its onscreen content.

“Is positive environmental behaviour featured in the dialogue of your programme?”

“Are there any props, background or action items that have a link to sustainable living displayed on screen?”

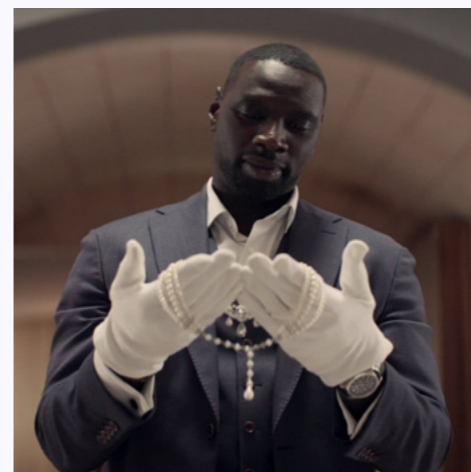
441

Productions featuring positive environmental behaviours

339

On-screen references to sustainable living

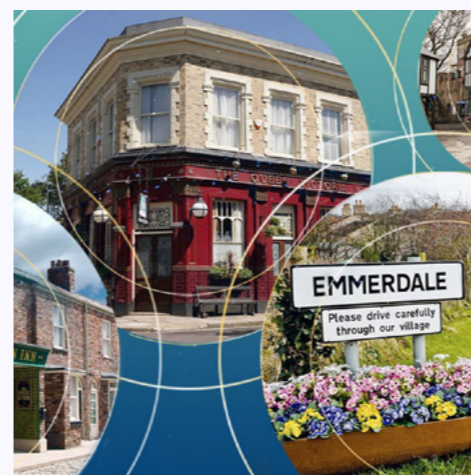
Planet Placement Case Studies



Lupin (Netflix)

In the first episode of Netflix’s crime thriller, Lupin’s crew are pulling off a heist at the Louvre.

Their driver is idling outside when a police officer approaches his car and tells him to turn off his engine if he’s not driving and to ‘think about the planet’. The driver happily agrees, relieved he’s not been rumbled.



Casualty, Coronation Street, Doctors, EastEnders, Emmerdale, Holby City and Hollyoaks

In an industry first, some of the UKs favourite soaps and continuing dramas joined forces in the week of COP26 with environmental storylines, that saw characters swapping sets and storylines that referenced characters from other shows.



Succession (Sky)

Succession follows an ultra rich media mogul, Logan Roy and his family’s quest to retain control of their empire.

Throughout the show, Logan’s business is criticised by many characters for the damage it’s causing to the planet, and there’s no bigger critic than his brother Ewan (played by James Cromwell), who ends up donating his grandson Greg Roy’s inheritance to Greenpeace after Greg refused to resign from the business.

This plot point led to a real world increase in interest of how one can leave money to Greenpeace in their will.

3.4 International

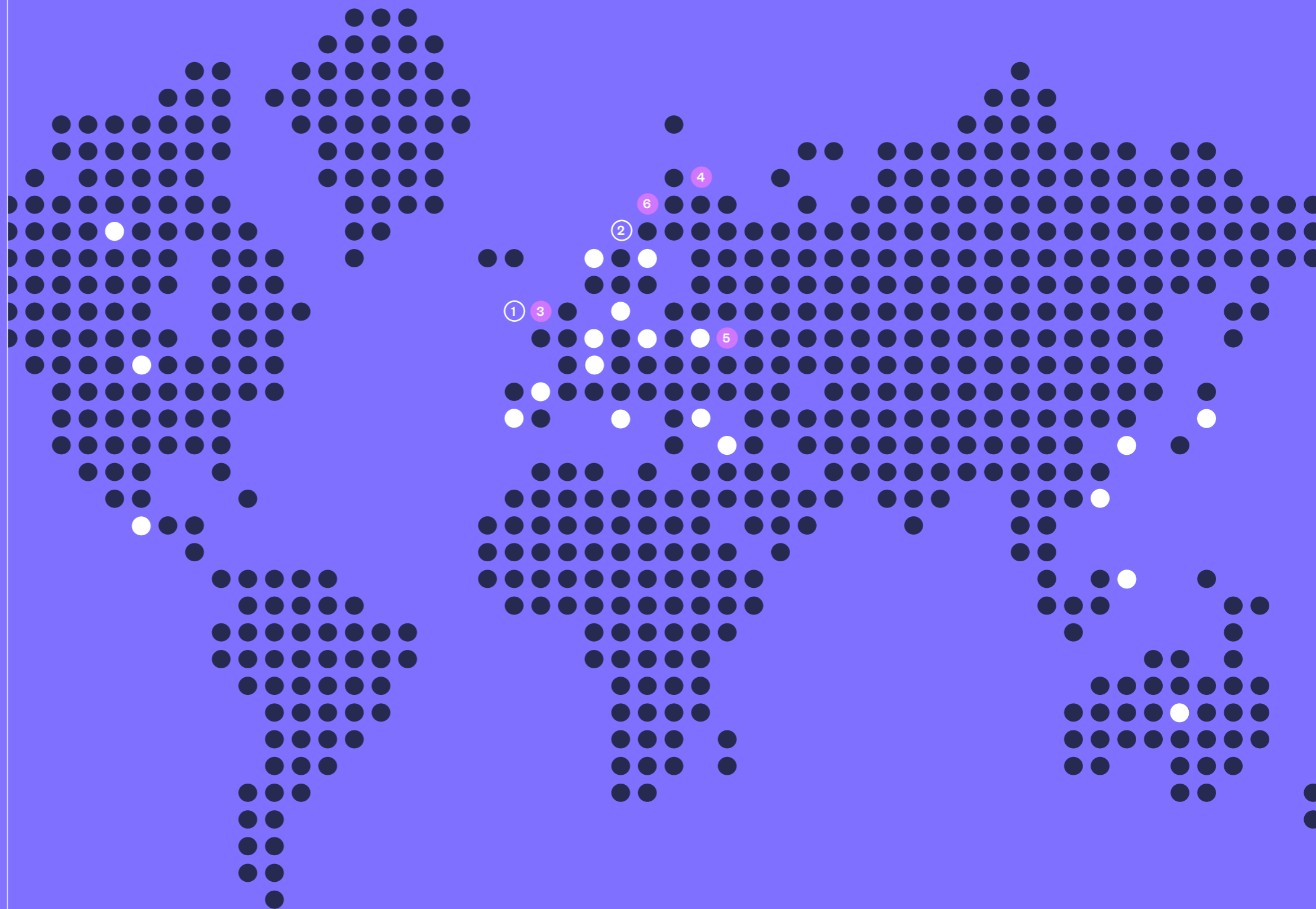
Our international partnerships aim to share and celebrate the industry's environmental actions across the whole globe. Our international relationships vary from fund agencies, broadcasters and production companies.

- ① Ireland achieved albert certification for nine productions within their Irish language programming.
- ② Norway VM I Snøsport / World Para Snow Sports: Calculated the emissions from the production and focussed on implementing environmental positive actions. Nominated for greenest production of the year at Gullruten (annual award ceremony and award for the Norwegian TV industry)

New international members and partners in 2021

- ③ **United Kingdom**
ITV Studios and Sky
(both Consortium members)
- ④ **Finland**
APFI (Partnership)
- ⑤ **Central & Eastern Europe**
CME (International Member)
- ⑥ **Sweden**
TV4/CMORE (International Member)

Production companies now using the albert toolkit across the world



3.5 Creative Energy

albert's Creative Energy scheme was launched in 2016 to support and encourage the creative industries to switch to 100% renewable energy

2021 proved to be a challenging year for the energy market – the combination of a global surge in demand for gas following a cold winter that left gas storage facilities depleted, coupled with a rebound in post-lockdown energy demand across Asia. A race to refill gas stores before the return of colder temperatures resulted in a surge in market prices.

The global gas grab remains a major concern because half of the UK's electricity is generated in gas-fired power plants. There was also a higher than normal demand for gas power in late 2021 following a series of nuclear reactor outages and the shutdown of a major power cable that brings in electricity

from France. More recently Russia's invasion of Ukraine has driven oil and gas prices to their highest levels in a decade, forcing many European countries to reconsider their own energy supplies.

Despite the energy crisis, albert's Creative Energy scheme welcomed 29 new members in 2021, bring the total number of members to over 100. Collectively in 2021, our Creative Energy members saved 4,131 tCO₂e – the equivalent of powering the London tube system for a week or 5,900 houses for a year.

The Creative Energy scheme was paused in October 2021 to new customers.

29

New Members in 2021

Over 100

Total Number of Members

4,141 tCO₂e

Saved by using renewable energy

3.6 Creative Offsets

Launched in 2020, our Creative Offsets scheme is designed to help productions offset any unavoidable emissions that cannot be reduced

Since its launch and following COP26, there have been multiple developments in this space with new frameworks emerging for how to include carbon offset projects within a net zero strategy.

In October 2021, responding to the need for credibility in Net Zero commitments and claims, the Science Based Target initiative (SBTi) launched its Corporate Net Zero Standard which focussed on the importance of science-informed abatement within Scopes 1, 2 and 3, as well as the requirement to neutralise unabated emissions only with removals.

In Nov, Glasgow played host to COP26 which saw the establishment of a new framework for the trading of credits and agreement on how to avoid double counting of emissions reductions.

The COP26 decisions will likely accelerate the expansion of the voluntary carbon markets due to higher investments in carbon credits and an increased demand for such credits. The increasing demand in turn will boost the values for carbon offset credits, which helps to get more ambitious offsetting projects started. With demand soaring and set to rise, the price for high-demand credible offsets (especially removals) is forecast to rise considerably.

Multiple frameworks, standards and initiatives are emerging on the use of carbon credits in Net Zero strategies which will impact the rules around carbon offsets. albert is watching this space closely.

23,884
tCO2e

Total offset emissions in 2021. The equivalent of powering the screens at Piccadilly Circus for a month.

781
Offset
Transactions

In 2021 by 207 individual companies. The equivalent to 66 offset transactions per month

Acre Farm Case Study

In 2021, albert's creative offset scheme supported a variety of projects including the Acre Amazonian Rainforest Conversation project in Brazil. 90% of Brazil's Acre state is forested, but current rates of destruction mean by 2030 this could decline to 65%.

This project aims to prevent deforestation across 105,000 hectares of pristine rainforest in the Amazon basin, protecting some of the world's most biodiverse habitats.

The project works with communities and local groups to help protect ecosystem services while providing alternative models of economic development which avoid destruction of the forest.



Above Acre Farmer, Benedito Silva

Celebrate

44

4. Celebrate

4.1 Annual Events Programme

albert hosts an annual events programme which is available for free thanks to our Event Partners – Sargent Disc, Good Energy, Green Tomato Cars, Location One and CAMA Asset Store.

In 2021, albert hosted 17 events across the year with a total of 11,333 attendances (and with more viewing on catch up).

Highlights from the year included the Earth Day event – ‘Do I Need a Carbon Budget?’ which explored the business end of the climate crisis and how businesses will need to respond in the future.

‘What A Wonderful World: Showcasing the Planet in a Time of Crisis’ saw albert team up with the wildlife community to discuss the duty of natural history filmmakers when making programmes about our planet, and with the sports community, albert asked: ‘Can Sports Broadcasting Help Slow the Climate Crisis?’

17

Events Hosted by albert

11,333

Total Attendances

4.2 COP26

When Sir David Attenborough joined Instagram in 2020, he made it clear who he felt needed to step up to the climate crisis with his opening line, ‘saving our planet is now a communications challenge’. So whilst global leaders and policy makers made their pledges to cut emissions, albert got to work too.

The 26th ‘Conference of the Parties’ took place in Glasgow 1-12th November 2021. Delayed by a year due to Covid, this was the most significant COP to take place since the Paris agreement was signed at COP21 in 2015.

Alongside BBC, ITV, Channel 4, Sky and STV, albert hosted a week-long series of events which covered topics from sport production to continuing drama, comedy to news reporting.

COP26 also provided a platform for albert to support the launch of the industry’s Climate Content Pledge - a rallying cry to the global industry to do more and better climate story-telling on screen across all genres. Its first set of signatories were the CEOs of 12 broadcasters and streamers in UK and Ireland.

COP26 Aims

- Demonstrate the power of TV in spreading the message of climate change to mass audiences.
- Showcase the collaborative work of the broadcasters over the past decade in reducing their environmental impact and producing content addressing the climate challenges we face.
- Share learnings as an industry and consider how to approach the challenges that lie ahead in enabling the transition to a sustainable future.
- Underline broadcasters’ editorial and commercial sustainability initiatives.
- Inspire, engage and inform industry audiences, furthering even greater collaboration.



4.3 Climate Content Pledge

In an industry first, the CEOs of 12 broadcasters and streamers signed up to The Climate Content Pledge, which was convened by albert and launched at COP26.

The signatories – who represent over 70% of time UK audiences spend watching TV and film – committed to using their content to help audiences understand what tackling climate change might mean for them, as well as inspire and inform sustainable choices.

8,000

Online Event Views

500

Total Attendees

117

Questions Submitted

37

Industry Voices

“This pledge is a firm commitment from our industry to go further and faster to engage and inform audiences on the climate challenges we all face.”

Tim Davie
BBC Director-General



4.4 albert Turns 10

2021 marked 10 years of albert. The original carbon calculator having been officially launched at the Edinburgh TV festival in August 2011. While saving the planet is a serious business, reaching our tenth year felt like the perfect opportunity to celebrate our industry's collective efforts, say thanks to all our supporters, suppliers and partners and look ahead to the next decade.



4.5 People vs Climate Change

albert was proud to support Picture Zero with the first screening of their documentary 'The People vs Climate Change' which focussed on the UK's first ever Citizen's Assembly on Climate Change and followed seven assembly members from all over the UK, who each bring their own perspective to the climate change debate.

The albert premiere screening attracted over 400 viewers and the documentary was subsequently picked up by iPlayer and screened on BBC Two on 30 November 2021.



400

Premier Screening Viewers





5. Appendix

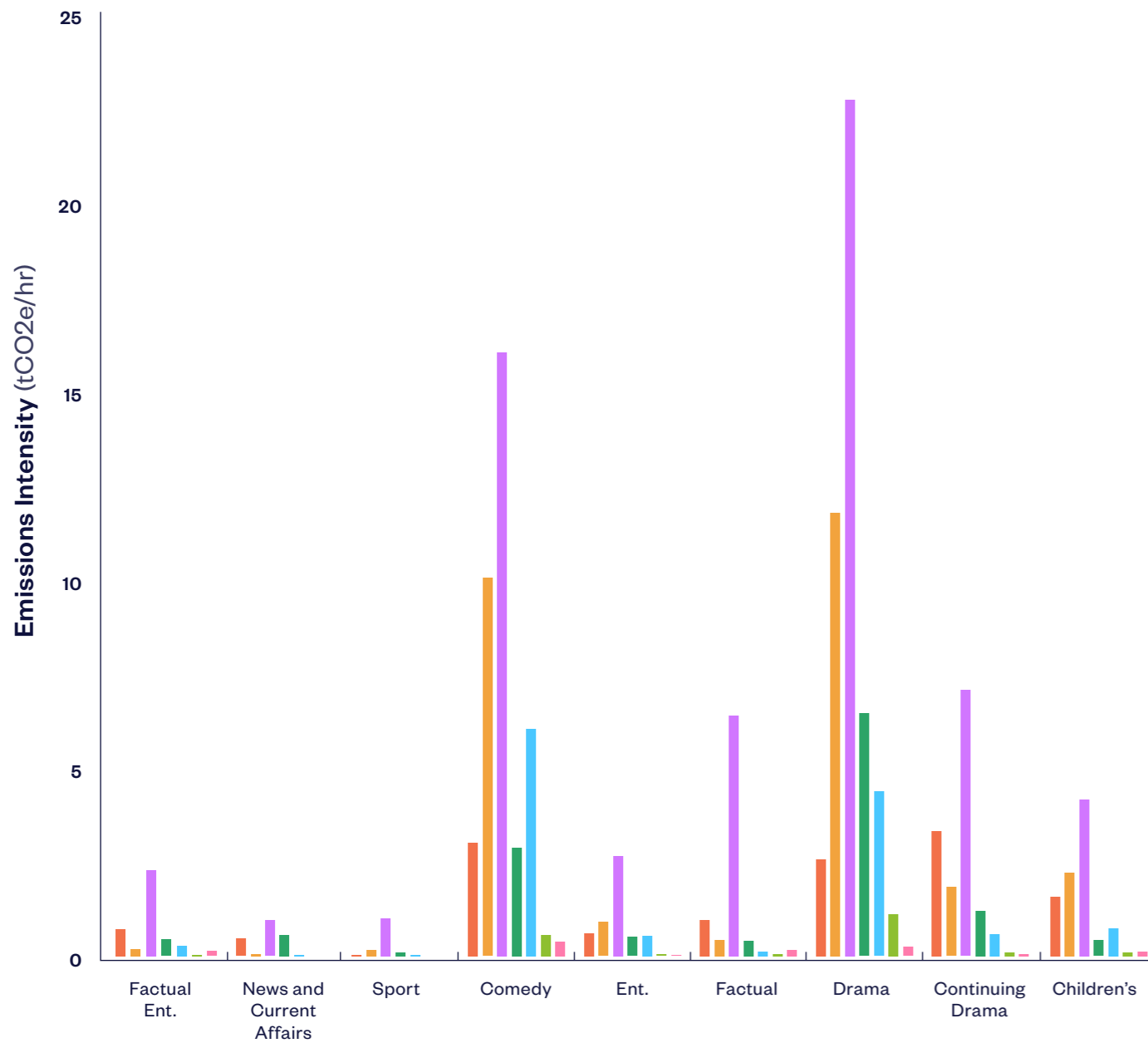
This appendix breaks down the average emissions by genre, providing a comparison from 2019 – 2021.

5.1 Genre Comparison

This graph provides an overview of the combined emissions associated with all genres tracked in the albert calculator in 2021.

While emissions vary between genres, travel and filming spaces remain consistent as the two highest emitters. Any production looking to significantly reduce their footprint should focus on these two areas.

For more information and support head to www.wearealbert.org



5.2 Factual Entertainment

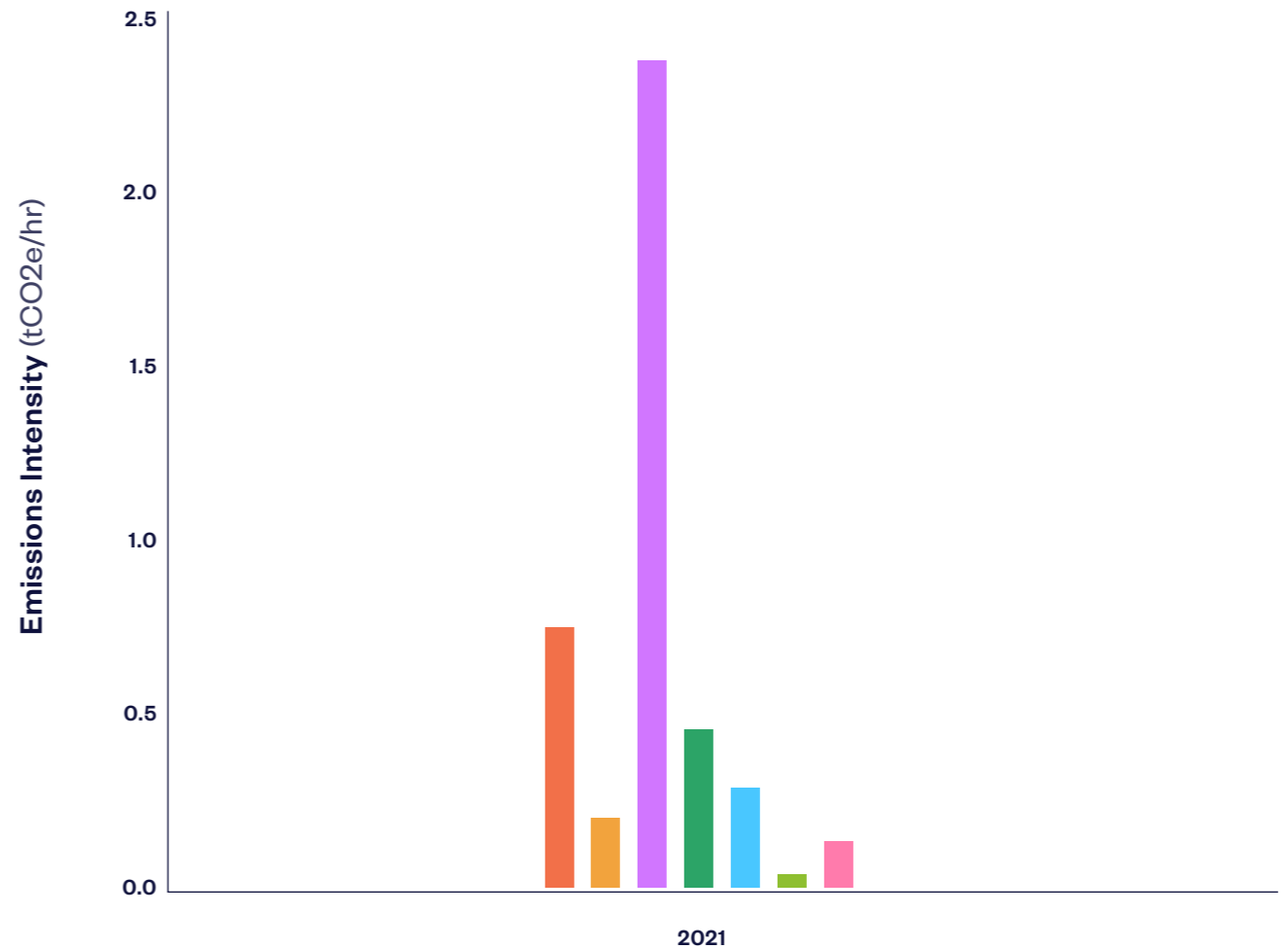
Overview The average emissions associated with an hour of factual entertainment emissions are 4.1 tCO₂e/hr. This is equivalent to powering the average house in the UK for a year.

Half of these emissions are associated with transport. Non-filming spaces and accommodation also make up a significant proportion.

Note: Factual Entertainment has only been tracked as its own genre since Jan 2021.

Solutions Transport decarbonation is key to reducing emissions. Using low emission vehicles or electric where available. Car sharing and using trains instead of planes will also help to bring emissions down.

Carbon Action Plan Average score for productions completing the CAP was 71%, 97% said yes to production office energy saving measures. 91% said no to accommodation on a renewable energy tariff.



5.3 News and Current Affairs

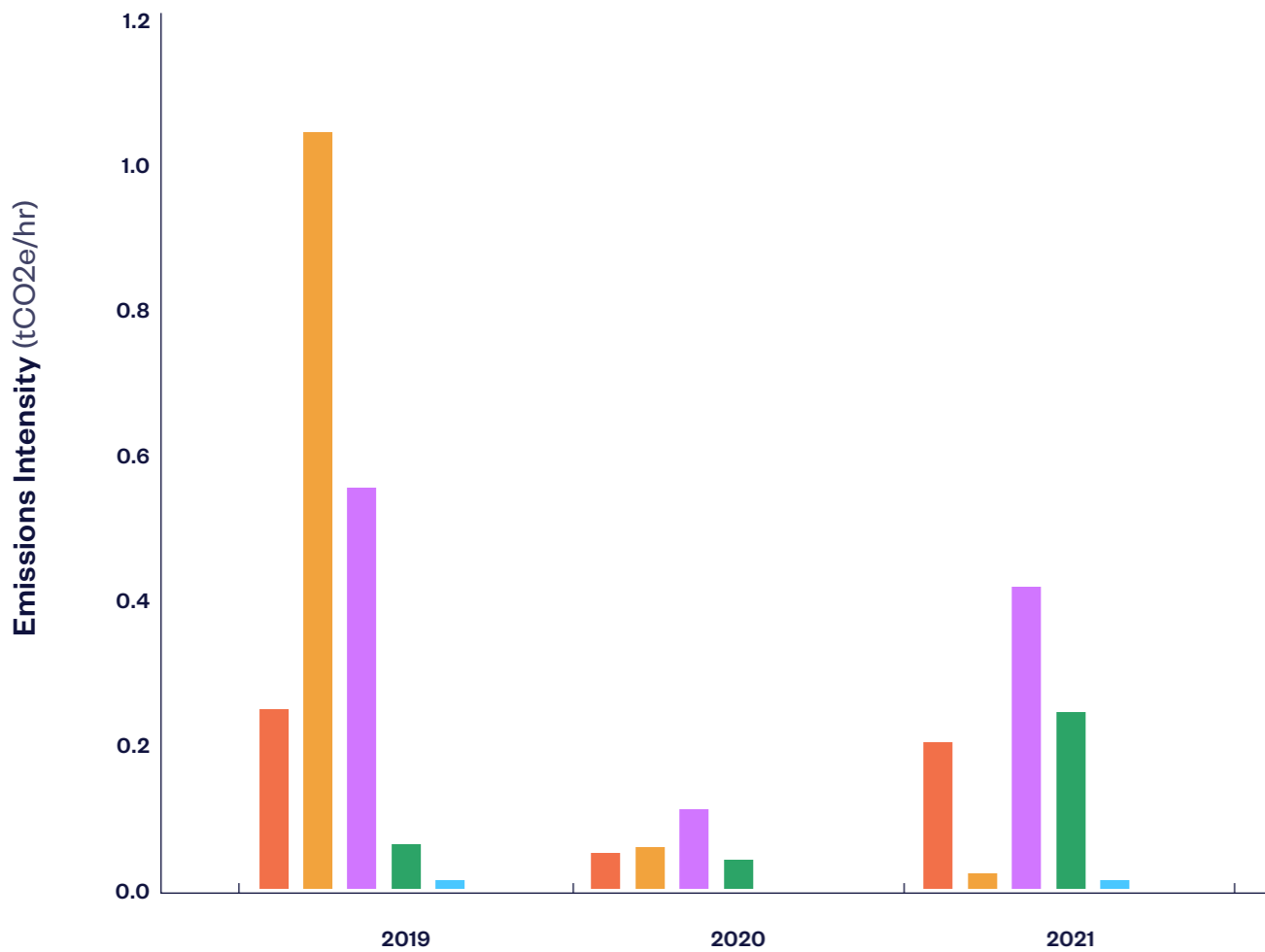
Overview In 2021, emissions associated with news and current affairs programmes are 2.1 tCO2e. These emissions are half what they were in 2019 but 5 times more than in 2020. The leap from 2020 to 2021 is likely due to the increase in the number of long form news documentary programmes using the toolkit - thanks to the engagement from the news consortium.

Although travel is the biggest part of this genre’s footprint, data shows that there is extensive use of local crews when covering stories internationally. While this is no doubt born out of necessity to be able to cover stories quickly and accurately, it has the additional positive knock-on benefits for

the environment too. The second greatest proportion of emissions comes from accommodation.

Solutions Choosing accommodation based on its carbon footprint or on whether it runs on renewable energy could further reduce environmental impact in this genre. Shared apartments tend to be less carbon intensive than hotels.

Carbon Action Plan Average score for productions completing the CAP was 75%. 100% said yes to energy saving measures in post and production offices, 80% said no to accommodation on a renewable energy tariff.



5.4 Sport

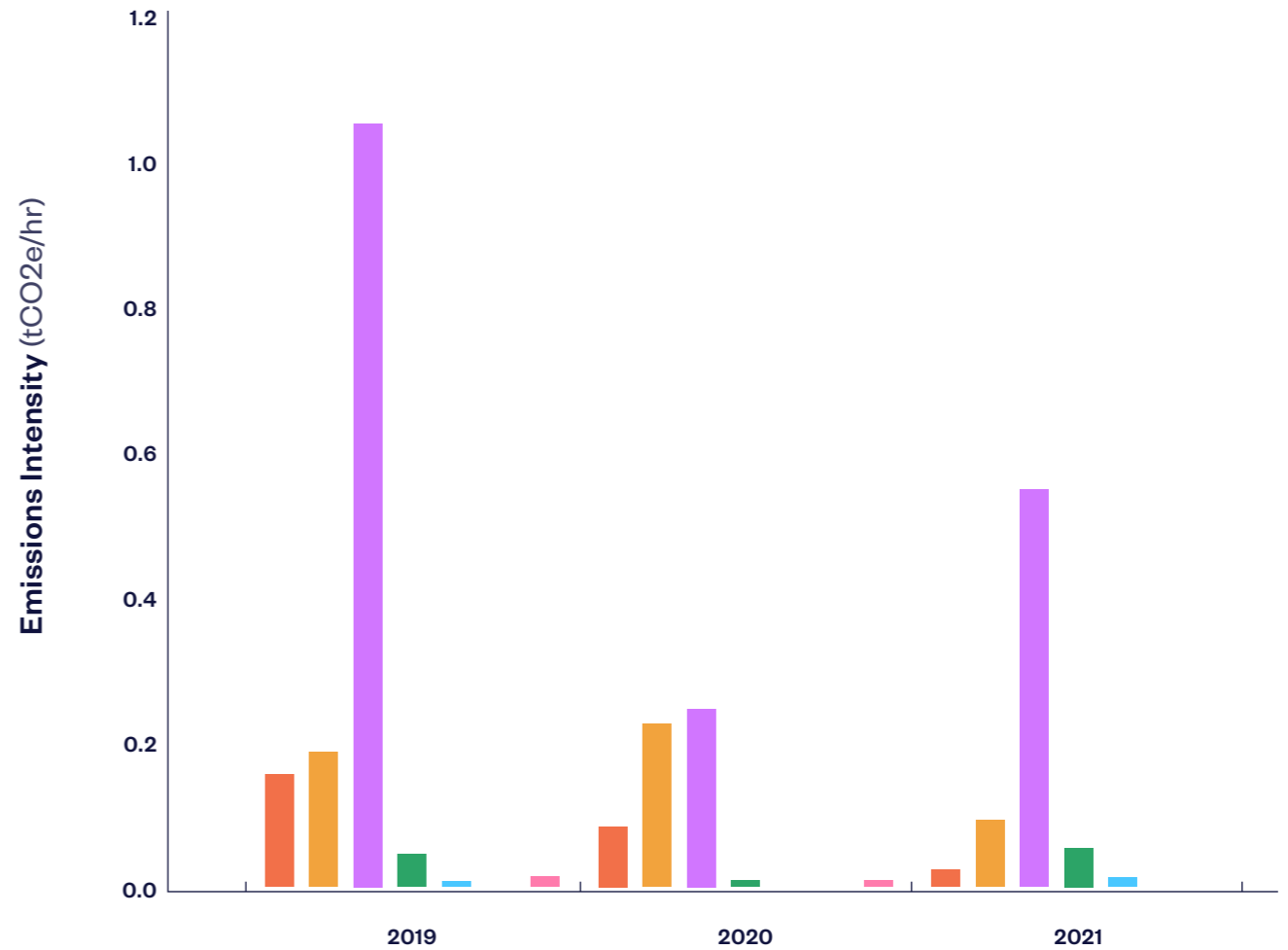
Overview Sports programming has the lowest average emissions of any genre in 2021 with the average hour of filming emitting 0.7 tCO2e/hr. This is partly due to innovative techniques with regards to filming. Sport productions have embraced remote and virtual techniques, as well as the use of low emission fuels.

Emissions have reduced by 50% in the last three years from 1.5 tCO2e/ hour to 0.7 tCO2e. This has been due to a decrease in travel emissions as well as emissions associated with filming spaces. The decrease is also likely to have been impacted by increased

engagement from the sports community through the Sports Consortium and also the way in which sports are replayed and reshow through highlight reels.

Solutions Success for the sports community so far has been highlighted through their willingness to collaborate and share best practice. Their ‘supplier to zero’ work has allowed them to tackle scope 3 emissions whilst their IBC accelerator project has explored [sustainability in live production](#)

Carbon Action Plan Average score for productions completing the CAP was 77%.



5.5 Comedy

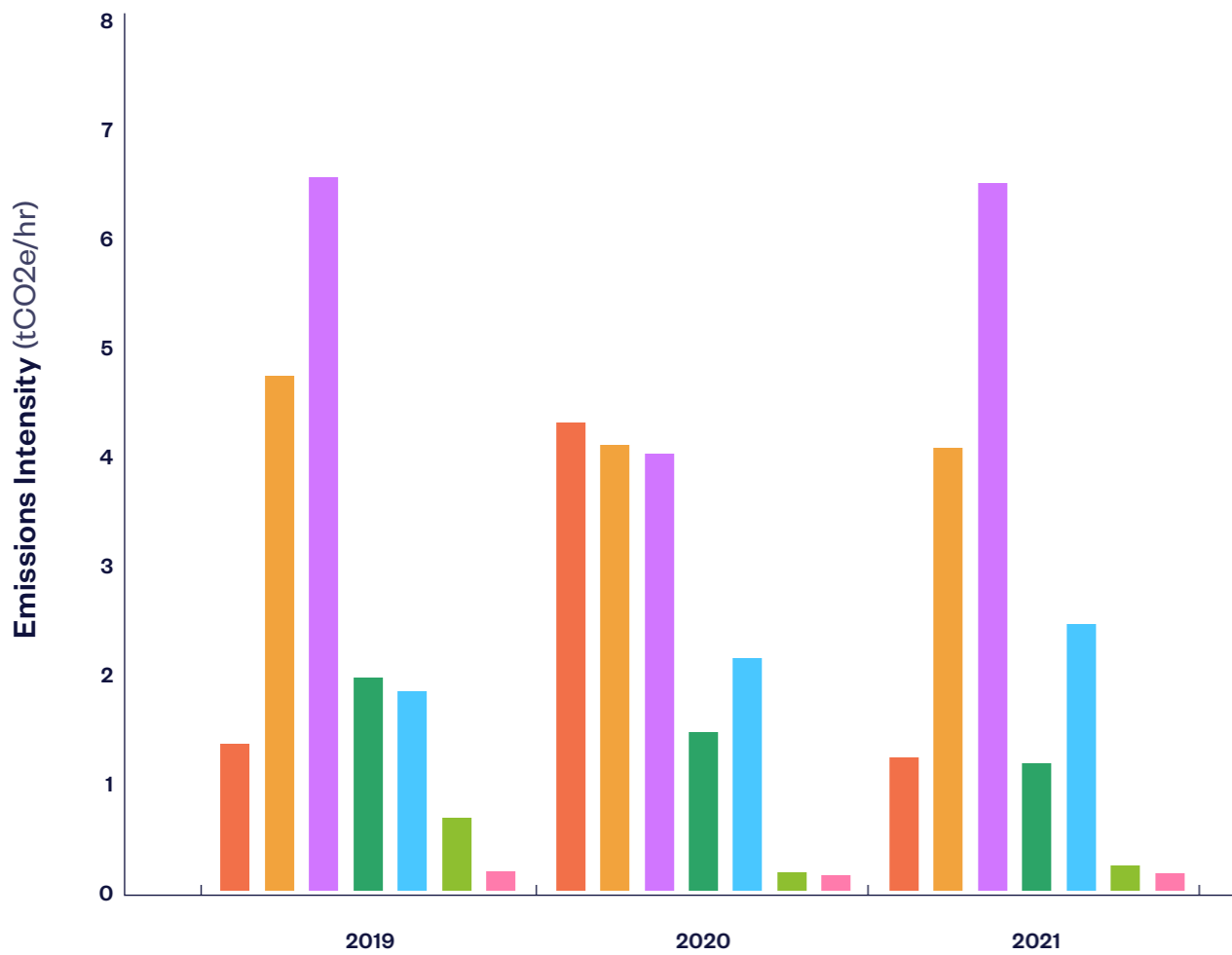
Overview The average hour of emissions associated with comedy programmes is 15.8 tCO₂e/hr

Emissions associated with comedy programmes have remained pretty constant in the last three years with only a small decrease. During 2020 there was a decrease in travel when compared to 2019 and 2021. However this was countered by non-filming space emissions increasing over the period. This is likely due to the UK's working from home mandate. In the UK, 75% of production offices are now on a renewable energy tariff, compared to an estimated 65% of UK homes.

Filming space emissions have remained fairly constant although it's encouraging to note that 54% of studios are now on a renewable energy tariff.

Solutions The biggest emissions come from transport – reducing travel where possible and sourcing electric vehicles or choosing trains over planes will help to reduce this part of the footprint. Opting for vegetarian catering or having meat free days when on set would help too.

Carbon Action Plan Average score for productions completing the CAP was 71%. 95% of the completed CAPs said yes to props being rented or second hand. 98% said no to providing veggie or vegan meals.



5.6 Entertainment

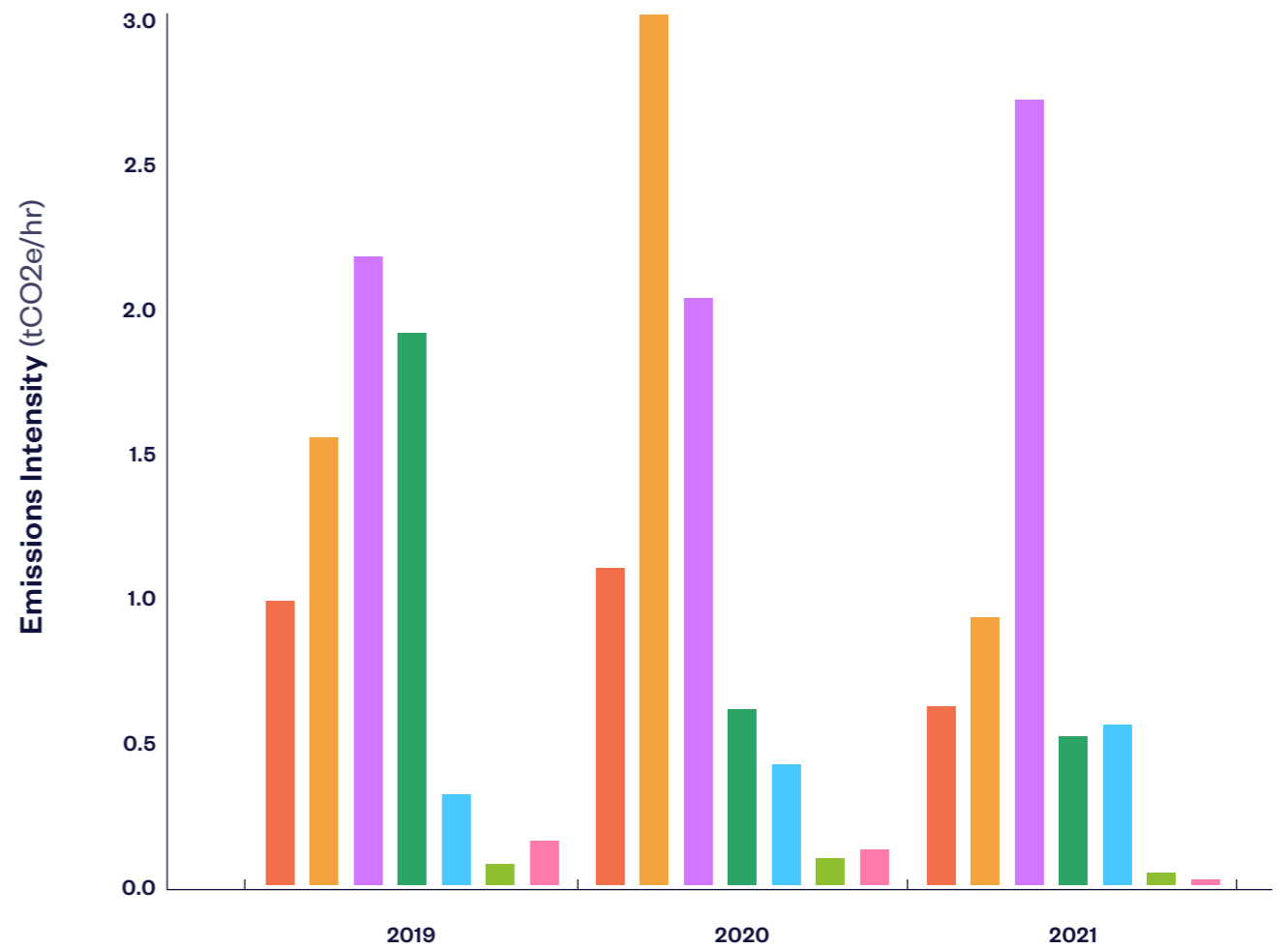
Overview The average hour of entertainment genre programming emits 5.5 tCO₂e/hr which is just below the total industry average of 5.7 tCO₂e/hr.

Emissions associated with filming spaces have decreased which speaks to the uptake in low emissions fuels as well as the renewable energy used by studios.

Despite the impact of travel restrictions during 2020, Entertainment programming recorded only a slight decrease in travel emissions from 2019 to 2020 and an overall increase between 2019 and 2021. This could be due to lasting effects of the pandemic with fewer people sharing or using public transport.

Solutions Decarbonisation of transport. Recent research shows that 90% of the working population could be lift-sharing when commuting (Mobilityways, 2021) and productions should begin to encourage sharing transport as soon as it is deemed safe to do so.

Carbon Action Plan Average score for productions completing the CAP was 71%.



5.7 Factual

Overview The average hour of Factual programming in 2021 emitted 8 tCO₂e.

Emissions associated with factual production have decreased in the last 3 years with a significant drop relating to the pandemic in 2020. 8 tCO₂e is the equivalent of 973,141 smartphone charges.

Almost three quarters of production emissions are associated with transport, this is likely due to international factual productions (which by their nature, involve a lot of air miles) having an impact on the average.

Filming space emissions saw a notable decrease between 2020 to 2021.

Solutions Minimising air travel through use of local crews and making more use of archive footage when possible would help Factual productions to lower their footprint further.

Carbon Action Plan Average score for productions completing the CAP was 73%. 95% said yes to production office energy savings and 91% said no to accommodation on a renewable energy tariff.

5.8 Drama

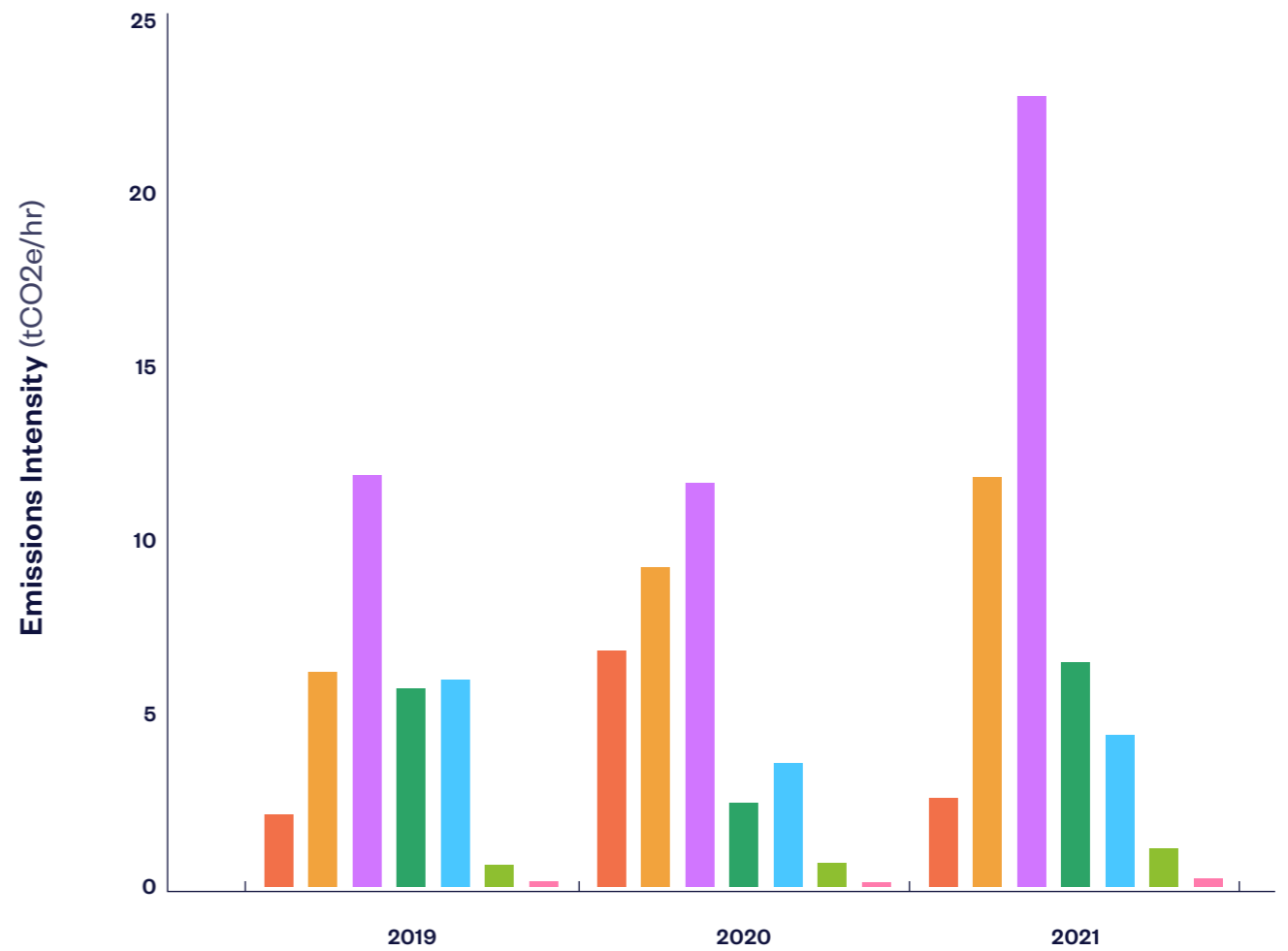
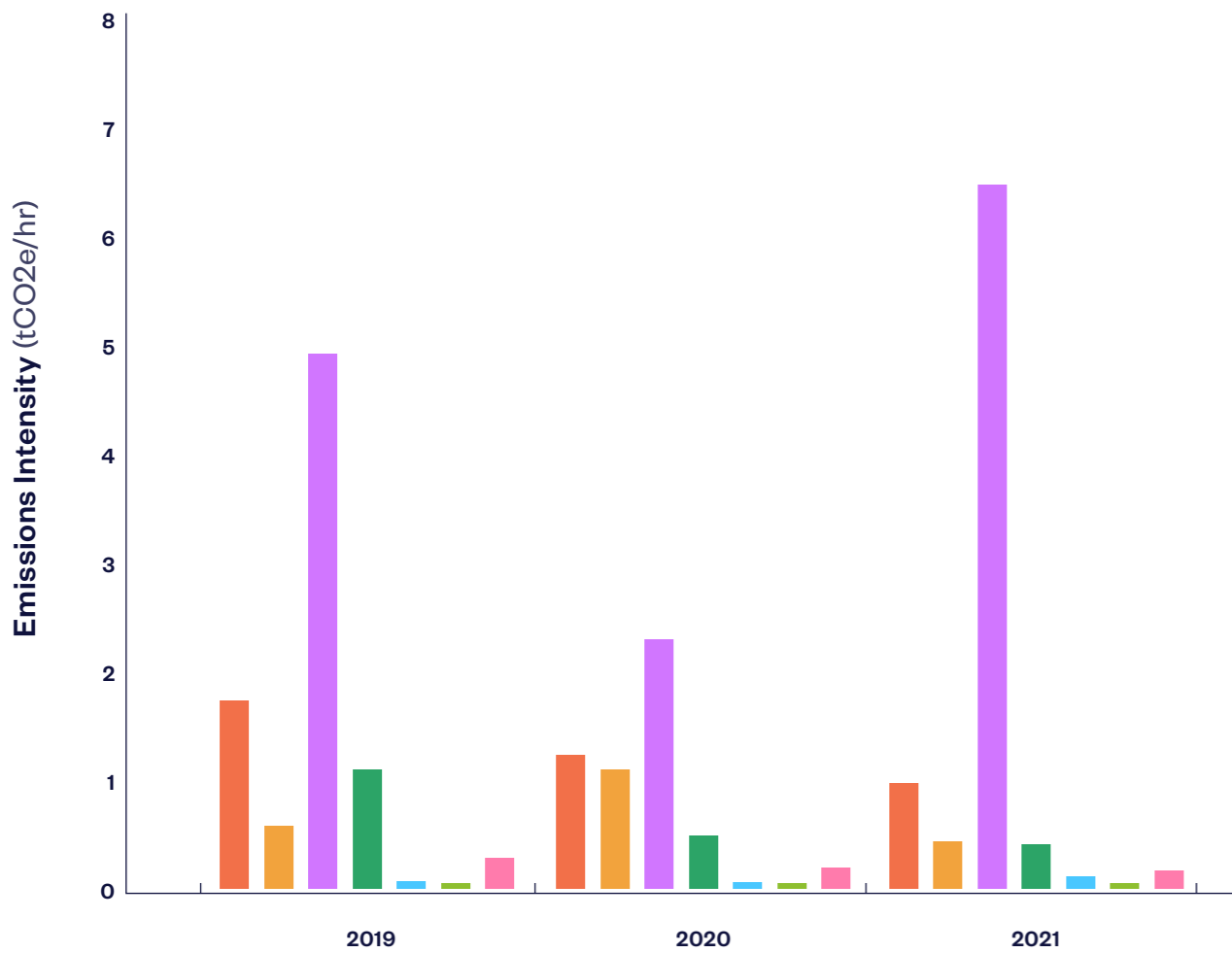
Overall Drama is the highest emitting genre of 2021, resulting in 50t CO₂e/hr. 50 tCO₂e is similar to the emissions associated with the average new build house in the UK.

The emissions are due to an increase in transport and filming spaces and, to a lesser extent, accommodation. This could be a knock-on effect of the pandemic, with teams having to grapple with new Covid protocols meaning that more production time was required for a single hour of TV.

Emissions associated with materials have decreased in the last three years, despite more material options on the calculator tool, which could suggest that more people are re-using sets or choosing low impact materials.

Solutions Given their size and scale, high end TV dramas arguably have one of the biggest challenges ahead of them when it comes to reducing their footprint. albert's Studio Sustainability Standard is one scheme that will help HETV productions in the future, allowing them to compare and book studios based on their sustainability credentials.

Carbon Action Plan Average score for productions completing the CAP was 72%.



5.9 Continuing Drama

Overview The average hour of Continuing Drama in 2021 emitted 14 tCO₂e/hr.

Emissions associated with Continuing Drama have more than doubled when compared to 2020, during lockdown, and also increased by 40% since 2019, pre-pandemic.

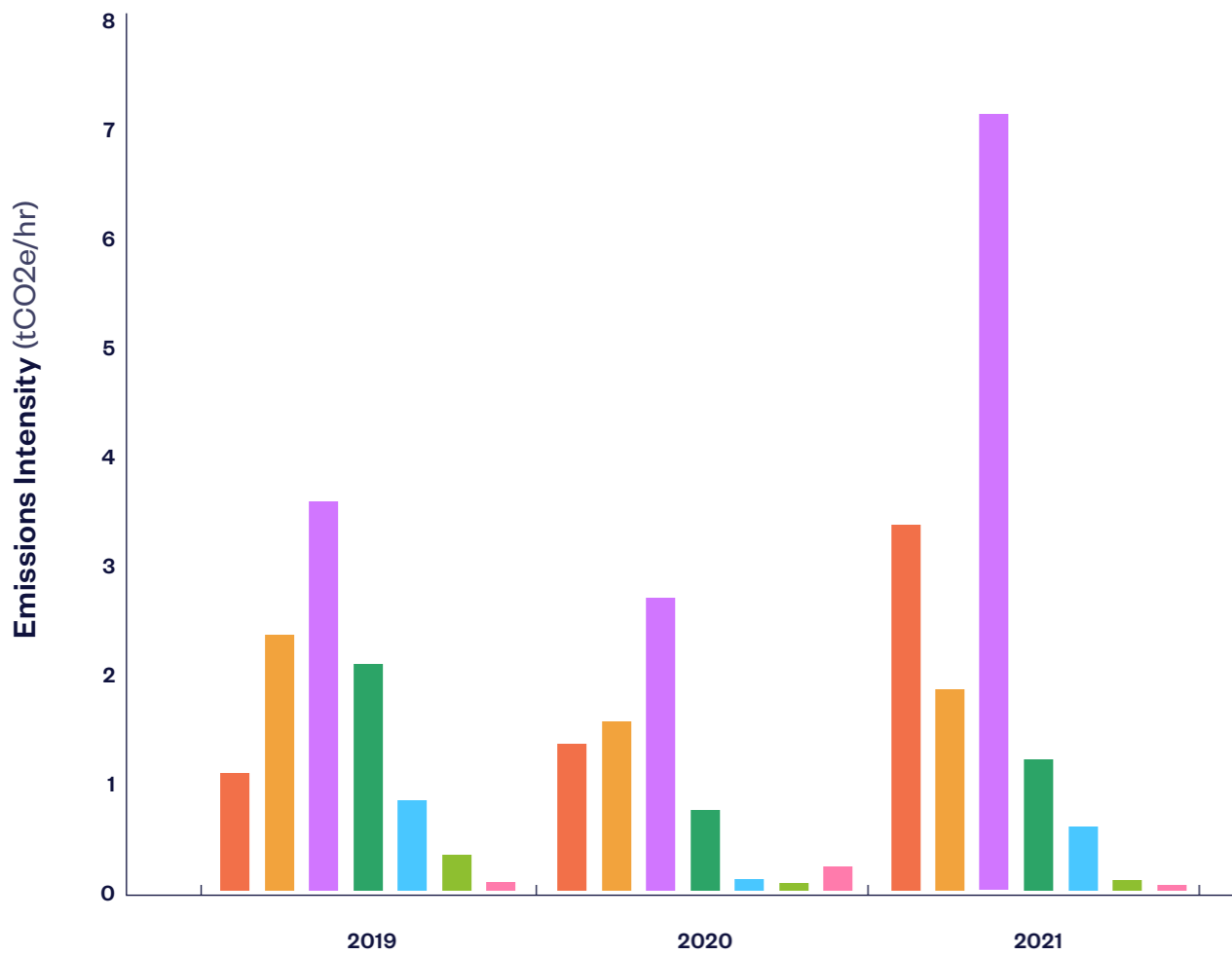
Emissions increases can be seen in transport and non-filming spaces. As with Drama productions, this suggests that more production days have been required to produce a single hour of TV. Covid protocols requiring talent and crew to travel separately might also be contributing.

The increase could also be due to 60% fewer continuing drama footprints being submitted when compared to 2020.

This means the impact of larger productions is felt when the average emissions intensity is calculated.

Solutions Switch from low emission to electric vehicles as more of these vehicles become available. Reduce travel where possible and increase the number of local crew used.

Carbon Action Plan Average score for productions completing the CAP was 78%. 80% featured climate editorial content in dialogue or prop. 100% said yes to using low emission hire cars, reducing post production emissions and building energy saving measures. 80% said no to reusing costumes and using stock footage.



5.10 Children's

Overview The average hour of Children's TV in 2021 emits 9.5 tCO₂e/hr.

Overall, Children's TV emissions have increased in intensity over the last 3 years.

The greatest increase comes from transport and filming spaces. Covid protocols, which encourage staff and talent to use separate vehicles as well as the increased length of filming schedules, likely impacted this.

There has been a 68% increase in the number of Children's productions submitted to the tool since 2020.

Solutions Use of electric vehicles is set to increase 12 fold in the next 10 years and, with improvements in charging infrastructure, this should help productions reduce their transport emissions. Meanwhile, opt for vehicle sharing when safe to do so.

Carbon Action Plan Average score for productions completing the CAP was 75%. The equivalent to a ** star production.

