



Our journey to
Net Zero

Vision

Offsetting

Analysis

Reducing

Collaboration

Innovation

Imagination

People

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"Our Why"

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Calculating our emissions

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& engagement

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Establishing a renewables
sector

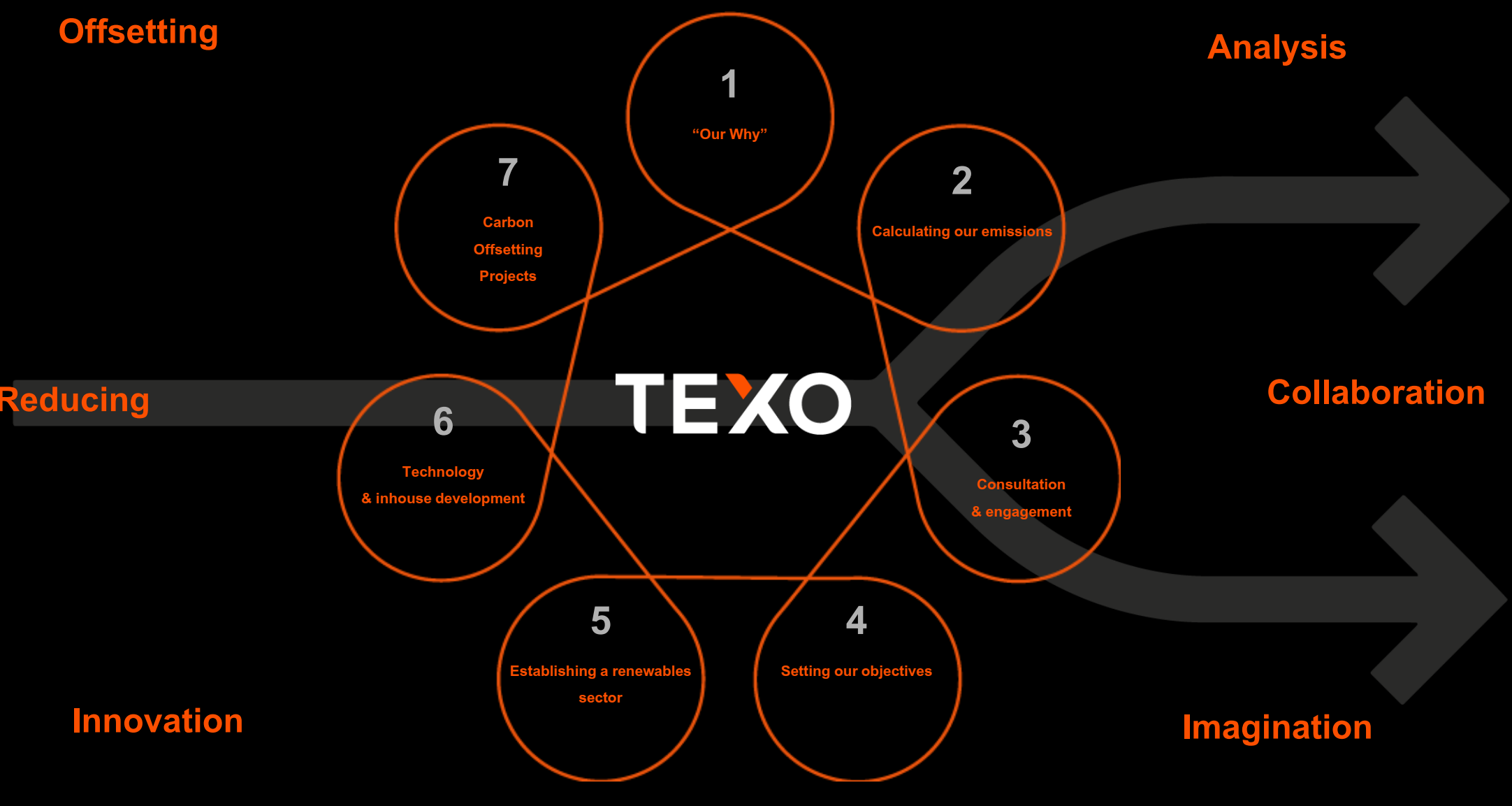
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Technology
& inhouse development

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Carbon
Offsetting
Projects

TEXO



“Our Why”

- Our duty as a business to play our role
- Commitment to our stakeholders
- Continual improvement under ISO 14001
- Retention and growth of client base




Following on from COP26, we made a clear commitment to reducing our current impact on the environment, and putting processes in place to help us towards our goal of becoming net zero by 2032. This is important to us, our teams, our customers and our communities, and we are serious about changing what we can, where we can, over the next 10 years to be a truly climate conscious business.

- Chris Smith, Managing Director

Calculating our Emissions to Establish our Baseline

- In a bid to begin calculating our current emissions for 2021, I attended a series of workshops by Net Zero North East.
- Through this workshop I learned how to use the BEIS Conversion factors but also quickly realised how time consuming and tricky it can become.
- We then decided to use a third-party consultant to ensure we obtained accurate data.
- After reviewing several consultants, we decided to use Carbon Neutral Britain who could not have supported us better through each step of the process which was trickier than expected.



Scope 1 (Direct Emissions)
Activities owned or controlled by your organisation that release emissions straight into the atmosphere are direct emissions. Examples of scope 1 emissions include emissions from combustion in owned or controlled boilers, furnaces, vehicles; emissions from chemical production in owned or controlled process equipment.

Stationary or Mobile Combustion Source (eg. boilers, furnaces, manufacturing equipment that use fossil fuels or emit fugitive emissions) that are not owned/leased vehicles

Equipment Type (specific)	Combustion Type	Quantity Combusted	Unit (tonnes or litres)	Additional Information if Required
<i>Examples: Propane Gas Heater</i>	<i>LPG/Propane</i>		<i>Litres</i>	<i>No</i>

Company Owned/Leased Vehicles

Vehicle Type	Fuel Type	Distance Travelled	Unit (kms or miles)	Additional Information if Required
<i>Van Medium - 1.4 - 3l engine</i>	<i>Diesel</i>		<i>Kms</i>	<i>Example for your reference</i>
<i>Van Medium - 1.4 - 2l engine</i>	<i>Diesel</i>		<i>miles</i>	
<i>Van Medium - 1.4 - 2l engine</i>	<i>Diesel</i>		<i>miles</i>	

Refrigerant Gas Loss Recharge (please list any refrigerant gas cylinders that have been recharged or replaced in any AC or Fridge units)

Refrigeration Type	New Units (kg)	Disposed Units (kg)	Unit (kg)	Additional Information if Required
<i>Domestic Refrigeration</i>	<i>0.5</i>	<i>0.5</i>	<i>No</i>	<i>Example for your reference</i>

Summary
Scope 1 (Direct Emissions)
Scope 2 (Energy Indirect)
Scope 3 (Other Indirect)
+

Production of our emissions statement and report

Texo Group Limited

Carbon (GHG) Emissions Report

2020/21

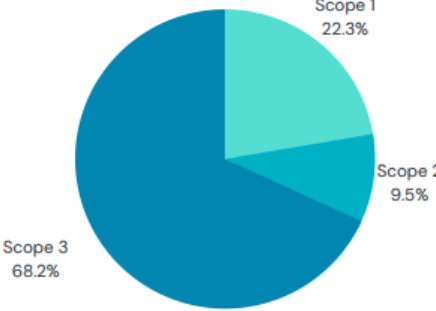


Completed by Carbon Neutral Britain Ltd
1st April 2022
Project No: 01159

5 - Results and Impact

5.1 Summary

Texo Group Limited
Carbon (GHG) Emissions
Reporting Period - 01/12/20 - 30/11/21



Scope	Percentage
Scope 1	22.3%
Scope 2	9.5%
Scope 3	68.2%

Scope	Value
Scope 1 Direct Emissions	244.44
Scope 2 Energy Indirect	104.15
Scope 3 Indirect Other	746.02

Metric	Value
Total Carbon Footprint	1,094.61 tCO ₂ e
GHG Emissions 2020/21	1,094.61 tCO ₂ e
GHG Emissions per FTE	9.12 tCO ₂ e

Completed 1st April 2022

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5.2 Emissions by Scope

The main Scope 1 emissions occurred from the company owned/leased vehicles and the mileage completed within the reporting period. Other emissions were created from combustion sources (generators) and the fuel consumed, as well as refrigerant gas recharge from commercial AC units.


244.44
Scope 1
Direct Emissions

The main Scope 2 energy emissions occurred from the electricity consumption from the multiple organisation sites, with a small amount of additional emissions produced from staff working at home. These emissions were attributed to additional energy usage that would not have otherwise occurred at home.

104.15
Scope 2
Energy Indirect

The main Scope 3 emissions occurred from organisation waste, with a high volume produced going directly to landfill. Other emissions were created from hotel stays (across Europe), staff commuting, business travel, inbound delivery of goods and organisation water usage.

746.02
Scope 3
Indirect Other



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Consultation and Communication

- Communicating the goal with others to ensure the vision is shared.
- Gathering ideas from our workforce through our “Ideas Matter” campaign
- Engaging with our stakeholders
- Reporting our emissions quarterly
- Adding on the “E” to our already established H&S Committee.



Setting our Target Objectives

- Growing our electric fleet for each site over the next ten years
- Setting up a renewables sector
- Selecting utilities providers from renewable suppliers with certificate of origin.
- Actively reducing emissions at each facility.
- Development of technology in house to help us and others to actively reduce emissions through their business activities.



Growing our Fleet of Electric Vehicles



Where travel is an essential part of our survey and inspection business, we are pleased to be leading the way in sustainable transport by transitioning to electric vehicles. This is an exciting step in reducing our impact on the environment, and we look forward to emission-free travel in the years ahead.

- Lauren Arnott, Divisional Director- DSI



Setting up a Renewables Sector

- Focused collaboration and work on renewable projects
- Adapting projects, materials and method used per project in order to decrease the emissions
- Working to increase our percentage of work in renewables



RENEWABLES



Work Within Each of Our Sectors Over the Last Year



Oil & Gas

41%



Renewables

6%



Utilities

3%



Marine

11%



Construction

39%

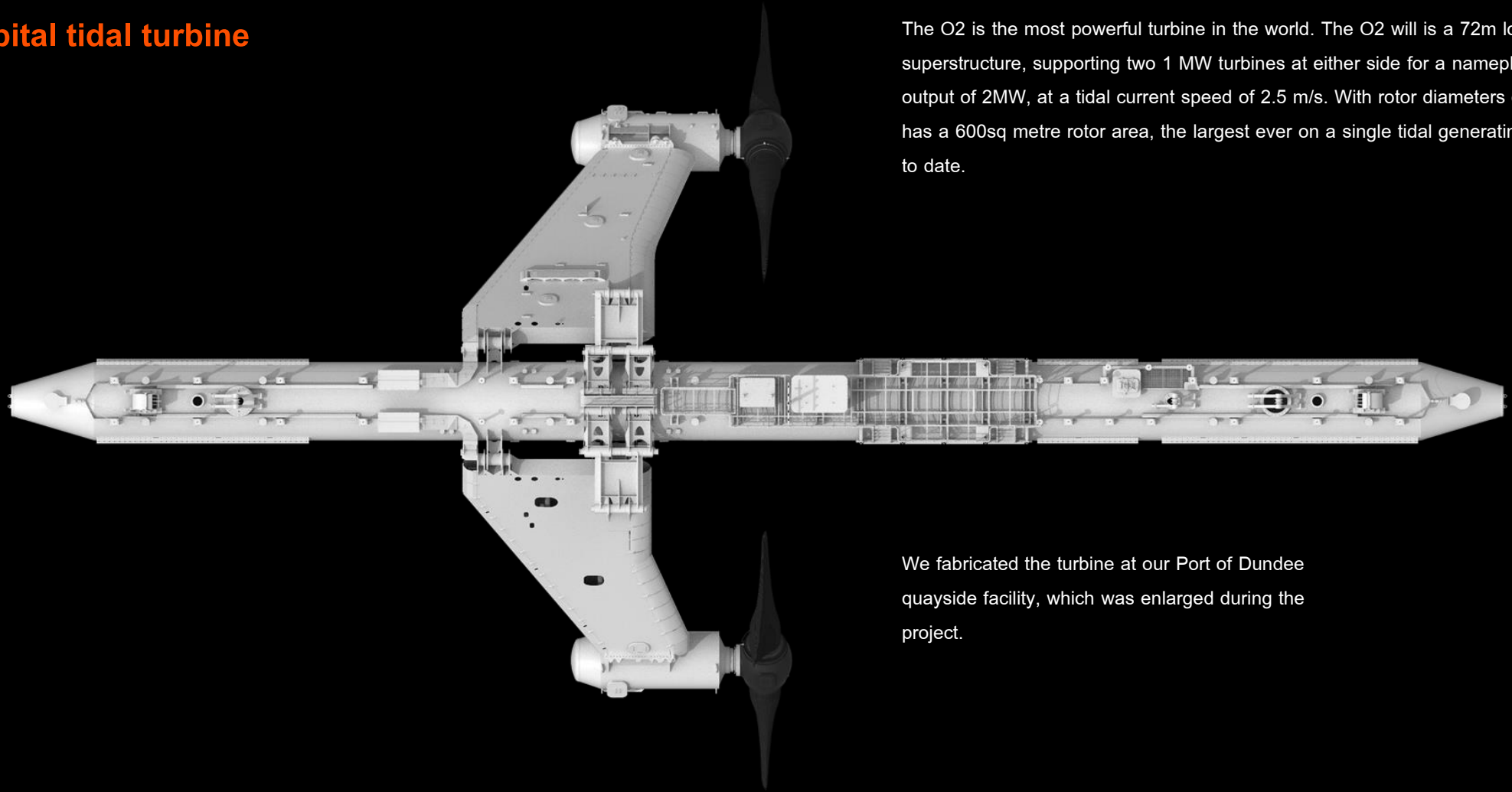
Renewable Projects Across Each Discipline

TEXO has the multi-disciplinary expertise to be a trusted partner across a wide range of renewable energy projects such as:

- Blade inspection and repair
- General wind turbine asset management
- Temporary accommodation for renewable builds
- Specialist tooling
- Secondary foundation work



Orbital tidal turbine



The O2 is the most powerful turbine in the world. The O2 will be a 72m long floating superstructure, supporting two 1 MW turbines at either side for a nameplate power output of 2MW, at a tidal current speed of 2.5 m/s. With rotor diameters of 20m, it has a 600sq metre rotor area, the largest ever on a single tidal generating platform to date.

We fabricated the turbine at our Port of Dundee quayside facility, which was enlarged during the project.

➤ Strategic location on the east coast of the UK.

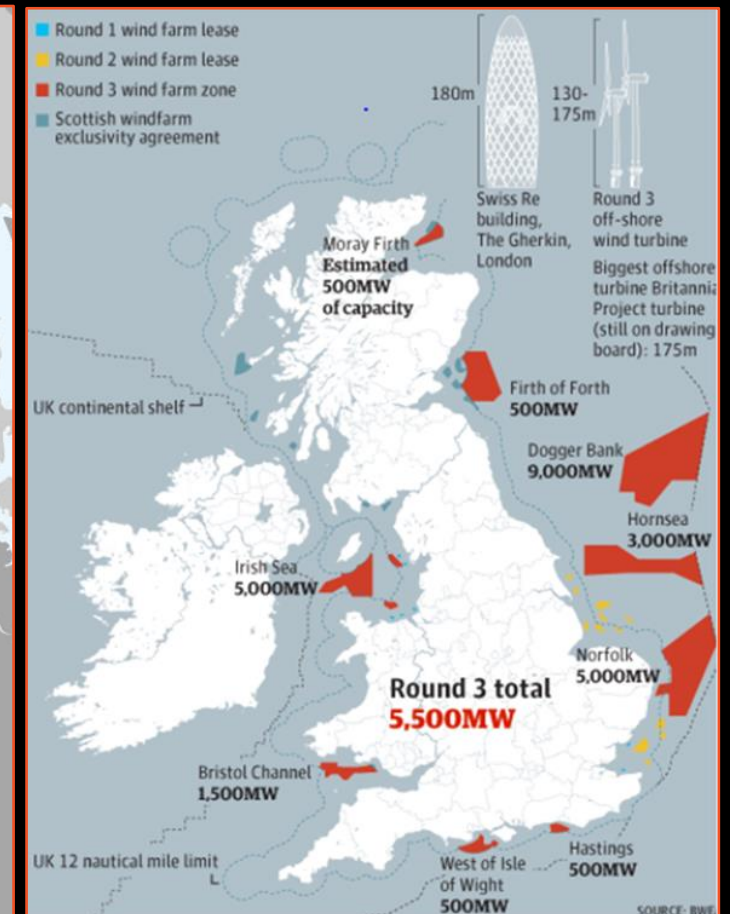
➤ Well placed for opportunities in the offshore energy sector including Round 3 offshore wind, mid North Sea oil & gas and decommissioning.

➤ Good uncongested road links, 20 minutes from Newcastle International Airport and with excellent rail access to the East Coast main line.

➤ Easy access for project cargo pieces to the motorway network

➤ Based in Northeast England, a lead UK region for offshore energy with well developed engineering supply chain

Dedicated TEXO service facility located at the Port of Blyth Working Closely with Wind Farm



Wind Turbines

Recent and upcoming projects involving the fabrication of elements of wind turbines and installation into the seabed:

- Fabrication of pin piles and shrouds.
- Support of wind turbine installation vessels- vessels to turbines- fabrication and maintenance.
- Fabrication and assembly of seabed plough to lay cables
- Fabrication of cable storage baskets



Construction of Eco-Friendly Schools

- Improve building fabric:
 - Insulation and air tightness.
- Reduce M&E Energy Consumption
 - Air Source Heat Pumps
 - Natural Ventilation
 - Natural Daylight
 - Efficient Lighting Design
 - Efficient Domestic Hot Water Generation
 - Mechanical Ventilation with Heat Recovery
- Addition of on-site Generation, ie Photovoltaics



Energy Performance Certificate **Scotland**

Non-Domestic buildings and buildings other than dwellings

E Barron Avenue, Address 3, Edinburgh, EH4 6AQ

Date of assessment:	01 Apr 2008	Reference number:	0000-0040-0030-9000-0803
Date of certificate:	26 May 2022	Building type:	Education
Total conditioned area:	1627.3 m ²	Assessment software:	EPCgen, v5.6 b.0
Primary energy indicator:	60 kWh/m ² .yr	Approved organisation:	CIBSE Certification Ltd

Building Energy Performance Rating

Excellent	Carbon Neutral	Current	Carbon Neutral	Potential
A (0 to 15)	0	0	A+	
B (16 to 30)				
C (31 to 45)				
D (46 to 60)				
E (61 to 80)				
F (81 to 100)				
Very Poor	G (100+)			

Approximate Energy Use: 20 kWh per m² per year
Approximate Carbon Dioxide Emissions: -5.4 kgCO₂ per m² per year

The building energy performance rating is a measure of the effect of a building on the environment in terms of carbon dioxide (CO₂) emissions. The better the rating, the less impact on the environment. The current rating is based upon an assessor's survey of the building. The potential rating shows the effect of undertaking all of the recommended measures listed below. The Recommendations Report which accompanies this certificate explains how this rating is calculated and gives further information on the performance of this building and how to improve it.

Benchmark
A building of this type built to current building regulations at the date of issue of this certificate would have a building energy performance rating of: **11 | A**

Recommendations for the cost-effective improvement of energy performance

1. Improve insulation on HWS storage.
2. Consider installing building mounted wind turbine(s).
3. Consider installing solar water heating.

THIS PAGE IS THE ENERGY PERFORMANCE CERTIFICATE WHICH MUST BE AFFIXED TO THE BUILDING AND NOT BE REMOVED UNLESS REPLACED WITH AN UPDATED CERTIFICATE.

Reducing travel with

LIVESTREAM



- After realising our emissions under scope 3 made up the majority of all our emissions, we have taken active measures to reduce our emissions through business travel.
- Developed in house, Livestream is a bespoke video and image streaming software that brings teams together to inspect, verify and progress-check projects from wherever they are in the world.





LIVESTREAM



Offsetting Projects



It has been a revelation to work with Carbon Neutral Britain. By breaking down our emissions in this way, we can see where we have most negative impact, and that is helping us to plan our journey. Working with Carbon Neutral Britain has given us invaluable insights, and we will continue working with them to offset future emissions and to see how we can change our working practices to reduce them overall.

We want to go further than simply offsetting, so we're now working on a range of initiatives to reduce, and eventually eliminate, the carbon emissions we produce.

- Chris Smith, Managing Director



Burgos Wind Farm

Philippines

The Burgos Wind Team leads projects and initiatives with the local governments and communities that promote the protection of the environment.

Engaging and empowering the community is a critical objective of the Project. In fact, the team hosts a local radio program that discusses various topics with the local community, mostly on the protection and promotion of the environment.

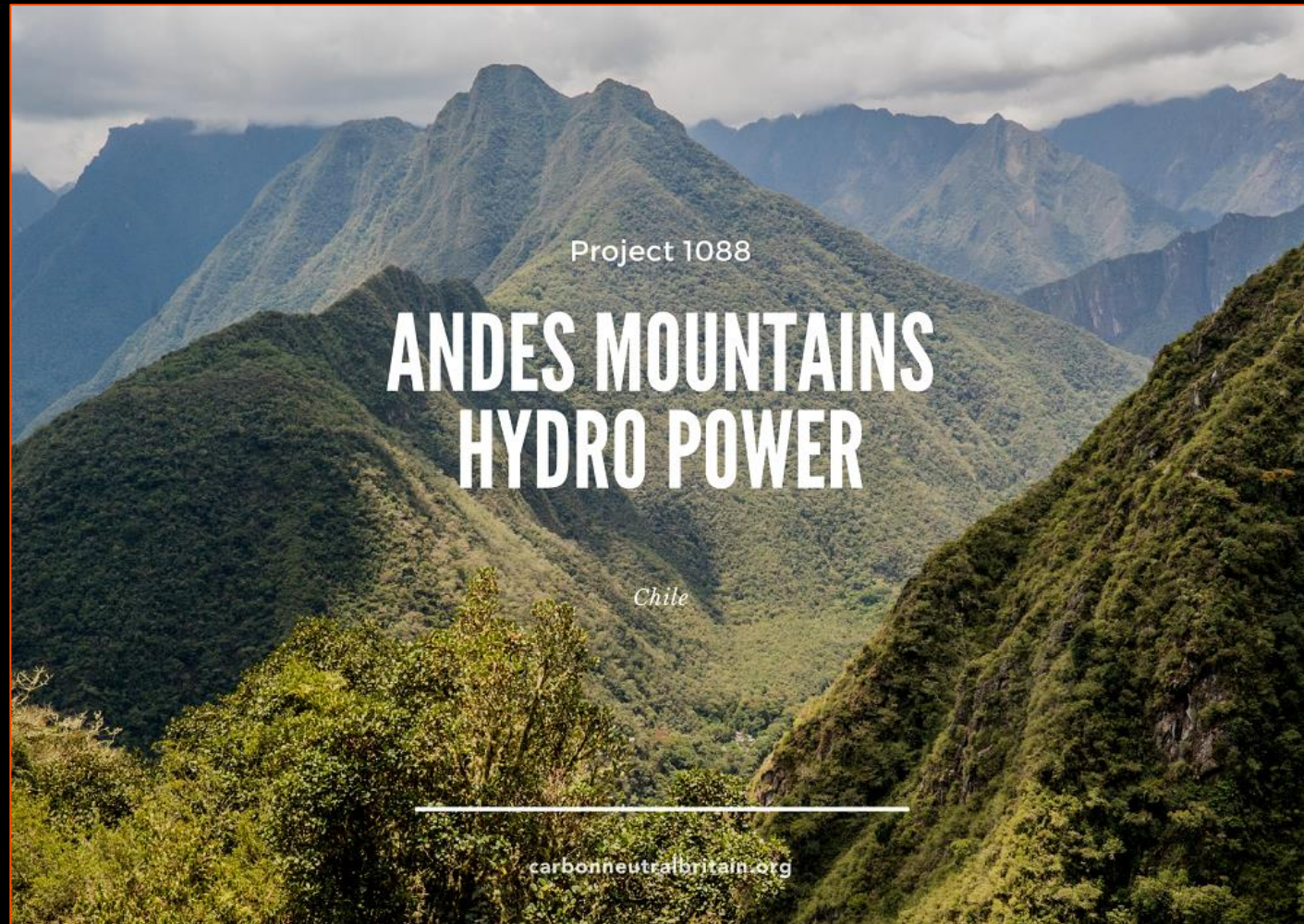


Andes Mountains

Hydro Power

Chile

The Project activity improves the supply of electricity with clean, renewable hydroelectric power while contributing to the regional/local economic development.



Rice Husk

Power Project

Cambodia

The Angkor Bio Cogen (ABC) project is the first renewable energy project to utilize rice husk as biomass fuel for electricity generation in Cambodia, involves the operation of 2 MW new rice husk power generation plant in the Kandal province.



Huaneng Changyi Wind Farm

Project China

The project produces clean energy and displaces generation from other sources that contribute pollutants and greenhouse gas emissions to the environment.

The Project has installed and is operating 33 wind turbines with a capacity of 1500 kW each.



Thankyou for your
time

TEXO
GROUP