

Sustainable business in United Kingdom

Landscape Overview 2021 Q4



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Sustainable Business in UK 2021 Q4

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Introduction

Developed by Deep Knowledge Analytics, **Sustainable Business in UK Landscape Overview 2021 Q4** report contains a comprehensive overview of the Sustainable Industry Ecosystem in the United Kingdom, in general, and by subsectors.

This report is systemized and summarizes the landscape of the Sustainability Industry in the United Kingdom, provides the distribution of more than 300 companies in 10 sectors, well-promising start-ups that may contribute significantly to developing the industry, and statistics by each industry historical data for the last decade.

A separate chapter is dedicated to the achievements of the UK government in the development of a sustainable economy, key targets and goals of the 25 Year Environment Plan introduced by the Department for Environment, Food & Rural Affairs, and the roadmap set to help businesses to transit to a more sustainable model.

This report covers significant focus areas and solutions that actively contribute to reducing our carbon footprint and improving the overall state of the environment.

Methodology and Approach

Methodology

The report analyses 323 start-ups, categorised into 10 specific industry subsectors, 431 investors, and 30 of the most influential nonprofit organisations. The entities have been selected using public domain databases, open-source search engines, public and private sector reports, and media reports. The data featured in this report on the main trends in the Sustainable Business Landscape Overview 2021 Q4 has been aggregated from many reputable and public data sources, including general and industry-specific databases, media and news reports, and conferences and government websites. While the information presented here is believed to be reliable, the report's authors make no representation as to the accuracy or completeness of its constituent materials, information, and data.

Sustainable Business in UK Landscape Overview 2021 Q4:

Main Parameters



Approach

Relying on various research methods and analytics techniques, the analytical report provides a comprehensive overview of the Global Impact Investing Industry. This approach has certain limitations, especially when using publicly available data sources and conducting secondary research. Deep Knowledge Philanthropy is not responsible for the quality of the secondary data presented herein; however, we do our best to eliminate risks by using different analytics techniques and cross-checking data.

Data Sources

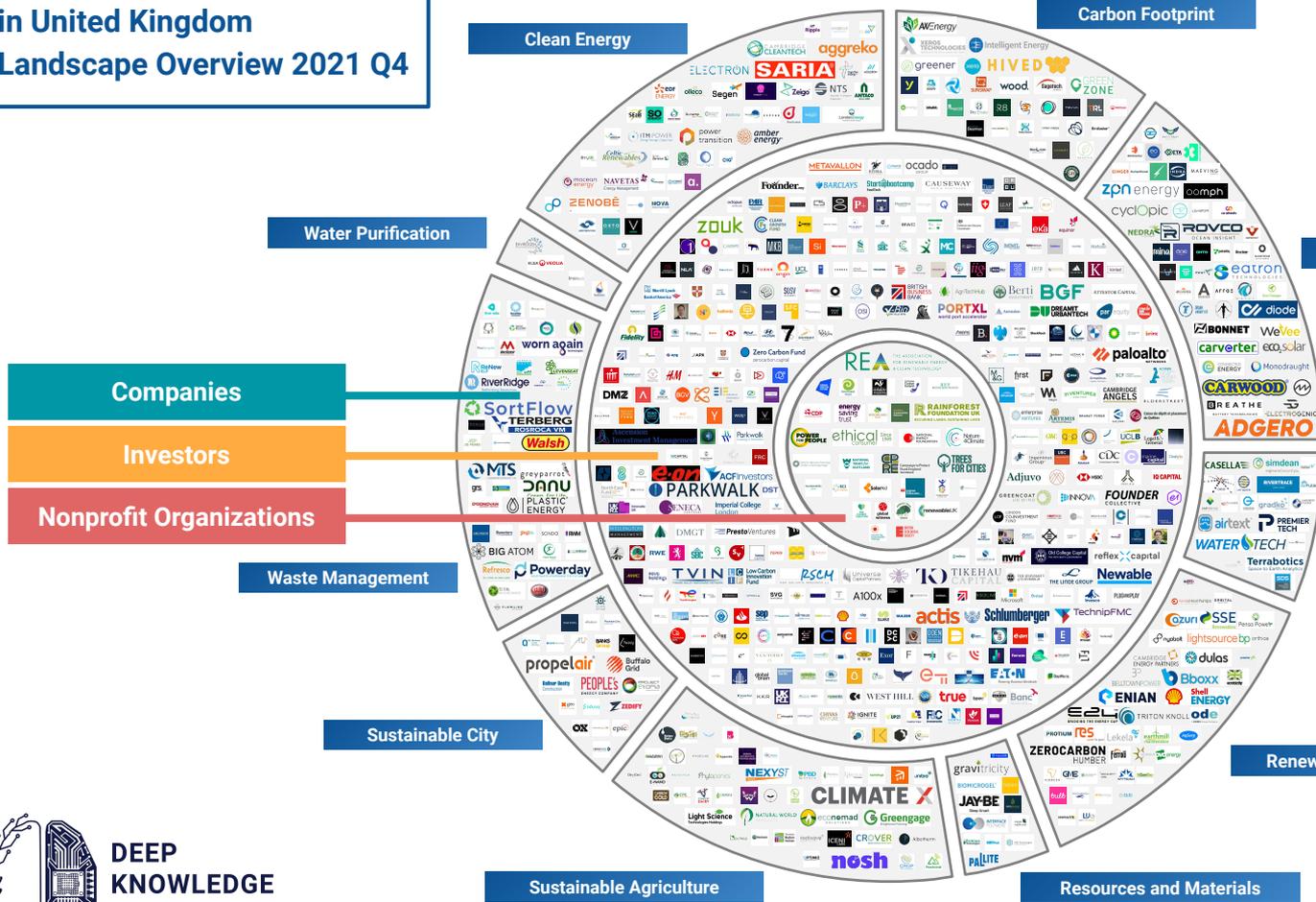


Applied Research and Analytics Methods



**Sustainable business
in United Kingdom
Landscape Overview 2021 Q4**

**Companies - 323
Investors - 431
Nonprofit Organizations - 30**



- Companies**
- Investors**
- Nonprofit Organizations**

Sustainable Economy in the UK

The sustainable economy is a model in which the economy is working to deliver the outcomes demanded by the Sustainable Development Goals (SDGs). By working together as partners, three key actors in the economy – business, government, and finance – can take responsibility for achieving this aim.

To make the necessary rapid and fair transition to a low carbon economy, the UK government set out the national 25 Year Environment Plan. It is part of the UK Government's goal to be the first generation to "*leave our environment in a better state than we found it*". The sustainable industry of the country has seen a year on year rise starting from 2007. According to kMatrix Data Services' research, in 2019, total sales in the sector were worth £226.1B and contracted during the pandemic. Still, it is expected to bounce back in the post-Covid recovery.

In its strategy, the UK government points out the overall direction and focus areas of the future sustainable development as nature restoration, complete transition on renewable energy and minimising waste.

Limit GHG levels to keep global temperature rise below 2°C

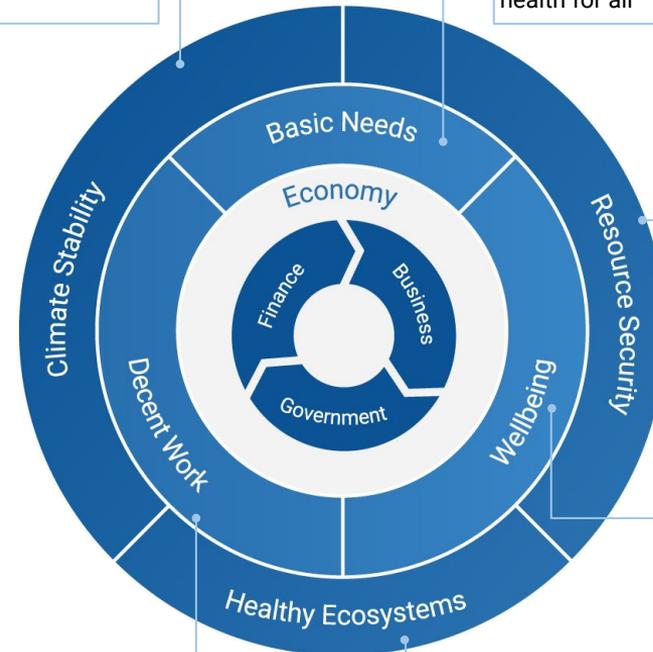
Food, water, energy, shelter, sanitation, Communications, transport, credit and health for all

Preserve stocks of natural resources through efficient use and reuse

Enhanced health education, justice, and equality of opportunity for all

Maintain ecologically sound landscapes and seas for nature and people

Secure, socially inclusive jobs, and working conditions for all



Global Sustainable Economy Trends and Challenges



Trends:

- Carbon reduction
- Replacing fossil fuels with renewable energy sources
- Water consumption reduction and energy saving
- Commercial recycling and waste service
- Environmental impact of fashion industry
- Sustainable infrastructure and property industry
- Evaluating the sustainability of business institutions
- Consumer pressure** on the businesses due to the plastics issue, waste management, climate-related actions
- High Consumer Demand for Plant-Based Food Alternatives



Challenges:

- Adoption of DeepTech in automation processing without increasing social inequality or economic exclusion
- Absence of political, regulatory and economic vision/strategies/step-by-step plans to align with SDGs.
- Measuring approaches of social risks and impacts on an equal footing with financial ones.
- engaging customers for a more sustainable lifestyle (changing consumer behaviour)
- Reconciling growth and sustainability: reconciling how business can grow with increase of (positive) sustainability impact
- Business climate adaptation

Targets in the UK 25 Year Environment Plan



Targets:

- Cleaner air
- Clean and plentiful water
- Thriving plants and wildlife
- Reducing the risks of harm from environmental hazards
- Using resources from nature more sustainably and efficiently
- Enhancing beauty and engagement with the natural environment
- Mitigating and adapting to climate change
- Minimising waste
- Managing exposure to chemicals
- Enhancing biosecurity

Membership:

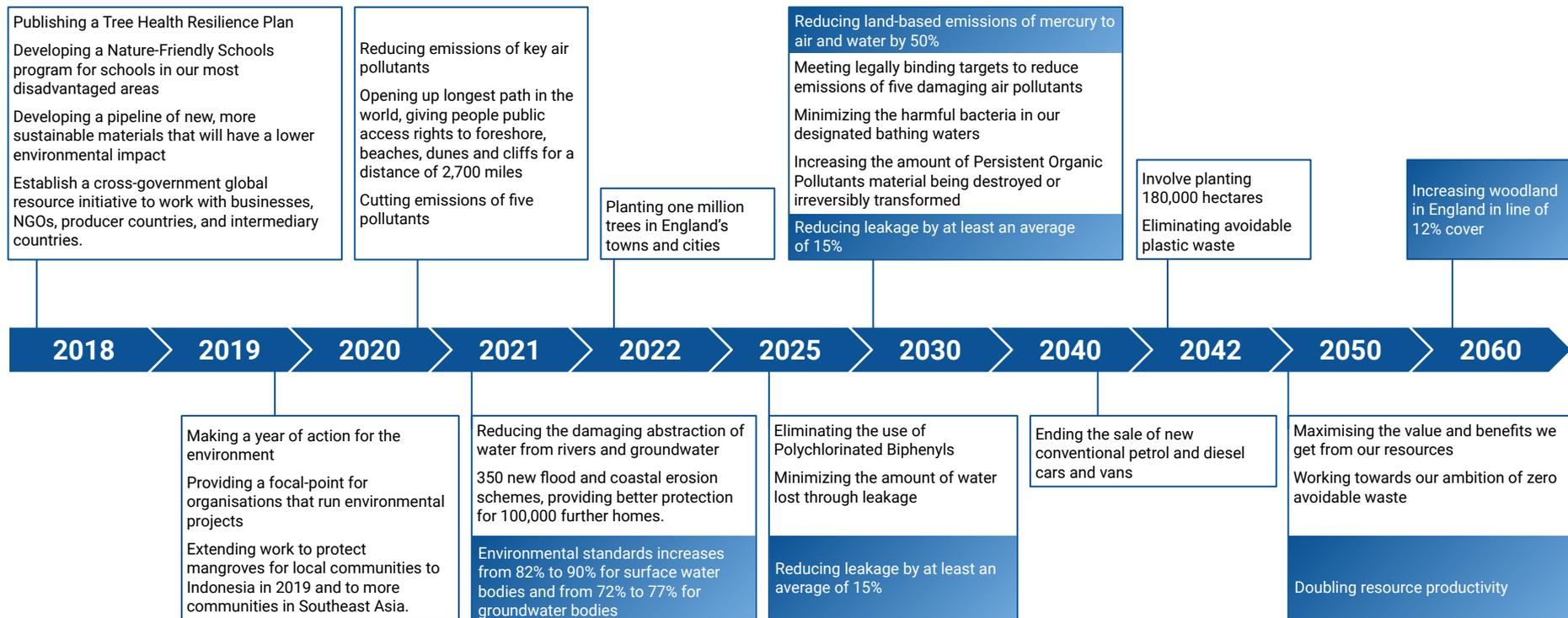


Progress:

- Since 1970, emissions of potentially damaging sulfur dioxide and nitrogen oxides have fallen by 96% and 69% respectively
- Since 1990, greenhouse gas emissions have been cut by 42%
- Since 2010, our flood defense program has been protecting 250,000 homes
- 35% of England's seas are now within designated marine protected areas
- Populations of animals have been successfully recovered or reintroduced

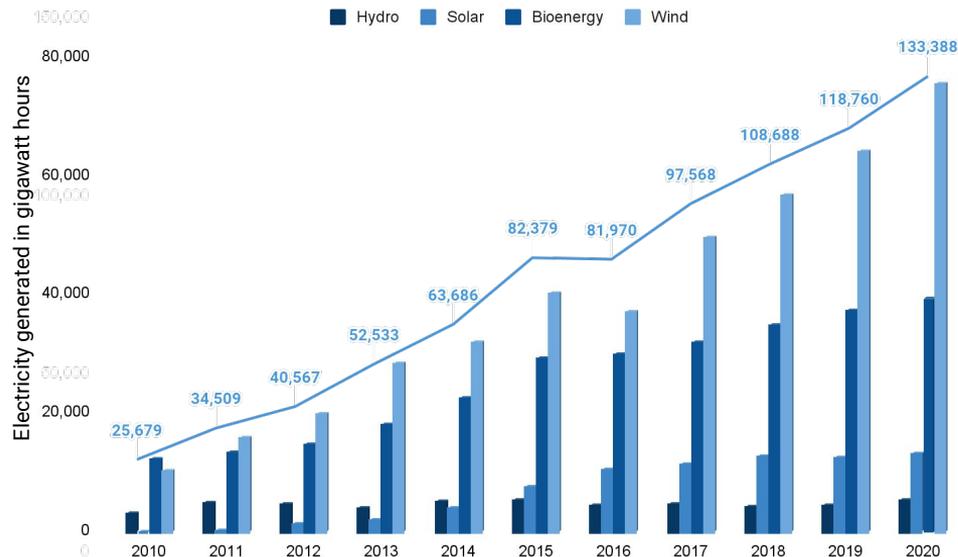
The Council for Sustainable Business has been established to advise how businesses can help achieve the 25 Year Environment Plan aims. The Council has a Chairperson, CEO and a core membership of 15-20 leaders from key sectors of the economy.

The United Kingdom 25 Year Environment Plan Roadmap



Renewable Energy Sector in UK Overview

Renewable energy production for the last 10 years



- The compound annual growth rate of electricity generation from Renewable Energy is **17.91%**
- Wind Power - 22.08%
- Solar Power - 78.53%
- Hydro Power - 5.55%
- Bioenergy - 12.36%

The largest energy producers in each category



Dinorwig Power Station
Snowdonia,
Northwest Wales

- **Hydroelectric**
Installed Capacity
1728 MW



Shotwick Solar Park
Flintshire, Wales

- **Solar Power**
Installed Capacity
72.2 MW



Drax
North Yorkshire,
England

- **Bioenergy**
Installed Capacity
2600 MW



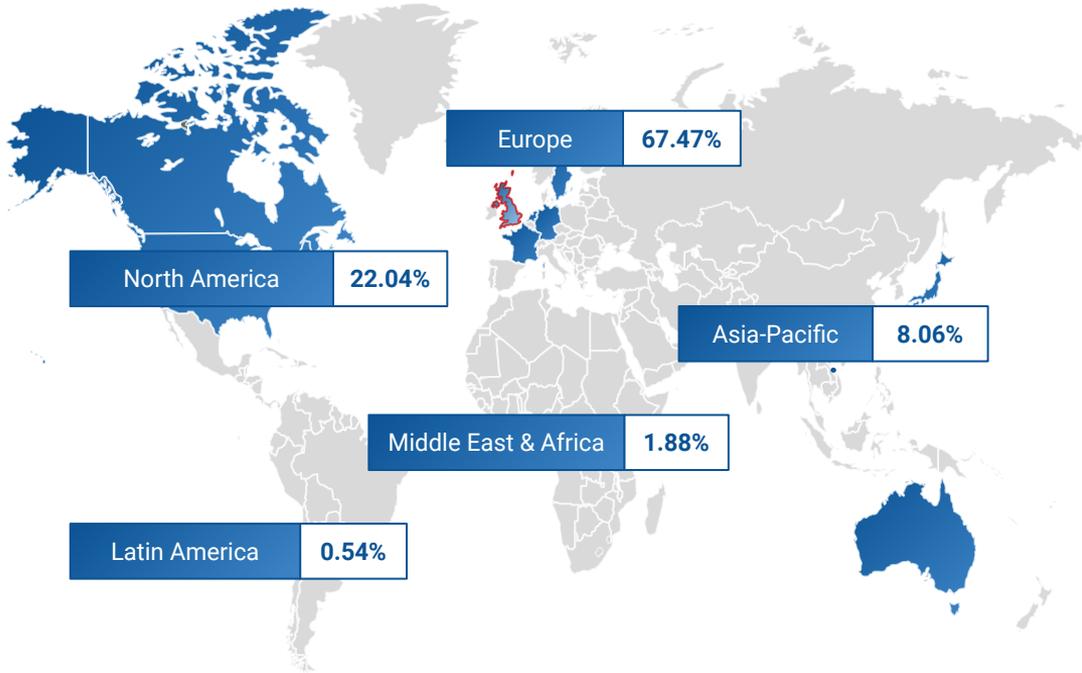
Hornsea One
Yorkshire, Southern
North Sea

- **Wind Power**
Installed Capacity
1200 MW

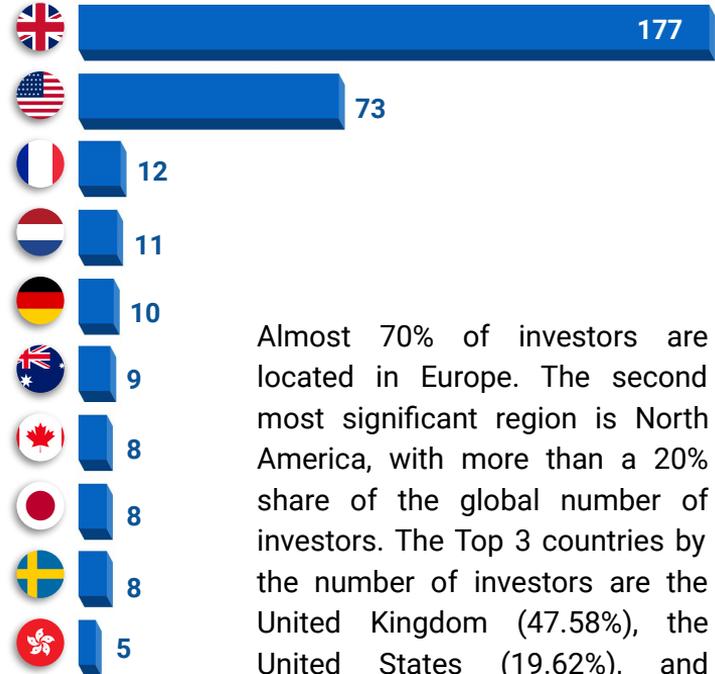
The UK is sixth in the global ranking, generating 29% of power from wind and solar. Renewables make up a 37.3% share of UK power generation in 2021, generating more electricity than fossil fuels in the year.

Regional Distribution of Investors in Sustainable Business Industry

Proportion of Investors in Each Region

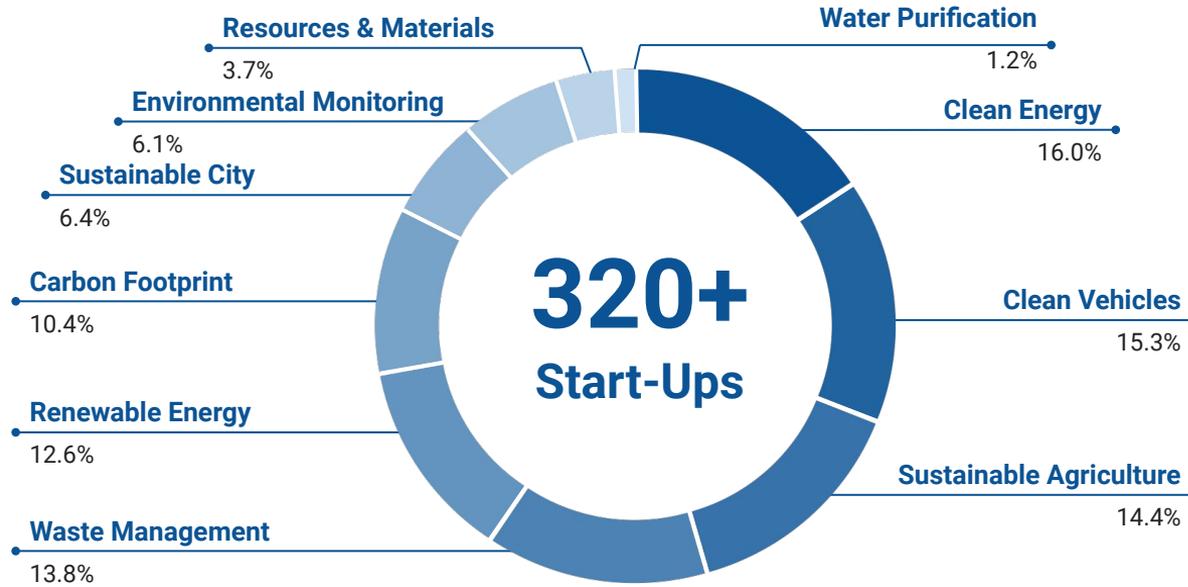


Top 10 Countries by Number of Investors



Almost 70% of investors are located in Europe. The second most significant region is North America, with more than a 20% share of the global number of investors. The Top 3 countries by the number of investors are the United Kingdom (47.58%), the United States (19.62%), and France (3.23%).

The Sustainable Business Industry Landscape in UK in Q4



Sustainability is becoming increasingly crucial for all businesses, regardless of industry. We analyzed **323** companies operating in the sustainable business in the UK and **categorized** them into **10 sectors**, including **electric vehicles, clean energy, waste management, carbon footprint** and so on. **Clean energy** appears to be the top category and accounts for **16%** of total sustainable business **in the UK**. Clean energy comes from sources that have **lower pollution impact** to the atmosphere when used and energy saved by **energy efficiency** measures. The **second** top industry by many companies is **electric vehicles**, with **15.3%** of the sector share.

Top 20 Nonprofit Organisations in UK

WALES



Centre for Alternative Technology

Powys, United Kingdom

SCOTLAND



The National Trust for Scotland

Edinburgh, United Kingdom

NORTH WEST



Ethical Consumer

Manchester, United Kingdom

MIDLANDS



The Wildlife Trusts

Nottingham, United Kingdom



Woodland Trust

Lincolnshire, United Kingdom

SOUTH WEST



Renewable Energy Foundation

Salisbury, United Kingdom



Centre for Sustainable Energy

Bristol, United Kingdom



EAST OF ENGLAND



Cambridge Carbon Footprint

Cambridge, United Kingdom



Green Alliance

London, United Kingdom



British Ecological Society

London, United Kingdom



Power for People

London, United Kingdom



CDP

London, United Kingdom



International Association for Human Values

Sussex, United Kingdom



Andover Trees United

Andover, United Kingdom

YORKS / HUMBER



Sheffield Sustainability Network

Sheffield, United Kingdom



Global Witness

London, United Kingdom



The Climate Coalition

London, United Kingdom



SolarAid

London, United Kingdom

LONDON

SOUTH EAST



Renewable World

Brighton, United Kingdom



National Energy Foundation

Milton Keynes, United Kingdom

Upcoming Conferences, Summits, and Events in 2021-2022



Global Impact Investing Overview

16 December 2021

Virtual



The Essentials of Sustainability for Business Owners

13 January 2022

Virtual



SUSTx Sustainability Summit

24-28 January 2022

Virtual



The Big Sustainability Expo

22 September 2022

Offline | Southampton, UK



Shaping the Future of Sustainable Business

23-24 February 2022

Hybrid | London, UK



Scotland Sustainability Summit

21 June 2022

Offline | Glasgow, UK



Sustainable Manufacturing Summit

10 March 2022

Offline | Bletchley, UK



Shalford Eco Forum

24 February 2022

Offline | Guildford, UK



The Wall Street Green Summit

28-30 March 2022

Virtual



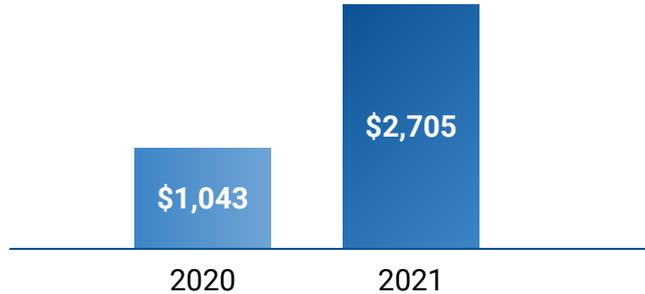
Decentralising Solar Economy

19 January 2022

Virtual

Sustainable Business Industry Investment Overview

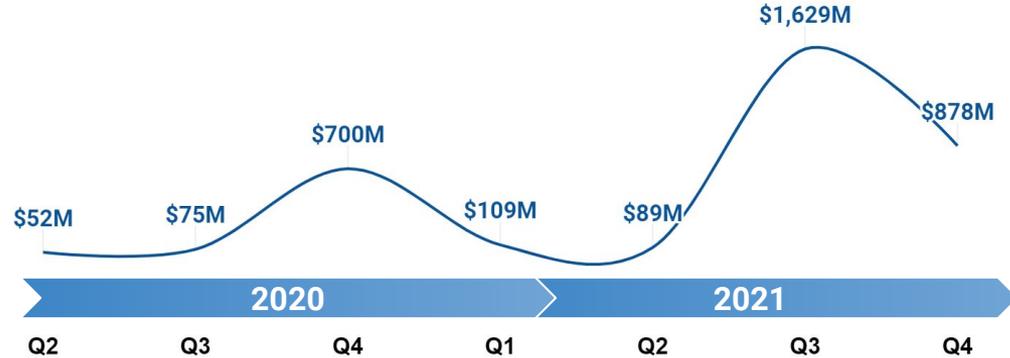
Total Funding 2020-2021



The UK's sustainability business is one of the most promising and prospective areas of modern, clean energy, carbon footprint, waste management, AgTech etc., in particular and exponential markets in general.

The total amount of funding in sustainable business in the UK increased 2.59x from \$1B in 2020 to \$2.7B in 2021.

Venture Capital Investments into Sustainable Business Industry by Quarter in 2020-2021



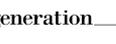
Investment into the totalled of 39 sustainable business companies in London reached out to \$1.7B of VC investments in 2021, an increase from \$642M with 32 companies in 2020.

The South East is the second largest area with 11 deals after London in 2021.

The Midlands region's total funding amount achieved \$232M which accounts for 10 deals in 2021. The Yorks / Humber raised \$405M from 1 deals in 2021.

Companies in Scotland raised \$88M. In investment in 2021, an increase from \$70M in 2020.

Top 10 Sustainable Business in UK by Biggest Investments In 2021

| Start-ups | Funding | Investors |
|---|----------------------|---|
|  | Venture Round |      |
|  | Series D | WEST HILL |
|  | Series A |    a/c proptech |
|  | Secondary Market |    |
|  | Venture Round |  |
|  | Venture Round |   |
|  | Venture Round |     |
|  | Series B |      |
|  | Post-IPO |     |
|  | Private Equity Round |    |

The chart represents the **top 10** companies operating in sustainable business in the UK. In terms of the **investment size, clean energy** companies received the most significant investments, over **\$1B** in their latest round in 2021. **Electric vehicles** have been seen as the **second** biggest sector with **\$215M** venture investments in their latest round 2021. Most top-tier companies have a great experience in **minimizing** the negative **impact** on the global **environment, society** and **economy** for a sustainable world.

United Kingdom Analytics

Our mission is to optimise the strategic agendas of international corporations and technocratic governments seeking to implement, stabilise and optimise their global positions in advanced technology-driven industries. An aim is, in particular, to support the implementation of the digital economy across the world and support developing nations to leapfrog development. United Kingdom Analytics Cluster is a direction jointly led by Deep Knowledge Group and several strategic partners - Big Innovation Centre Limited, Henley & Partners, Global AI Hub - to provide sophisticated market analytics, industry intelligence, comparative industry classification

frameworks and benchmark case studies, developing advanced tools for analysis and visualization of technology and innovation ecosystems through reports, custom-made consultancy products and services, and dynamic interactive online IT platforms.

United Kingdom Analytics Cluster focuses on producing sophisticated open-access, and proprietary analytics that reveals the main drivers of the UK's ongoing technological transformation uncovers the state of the various industries, including Artificial Intelligence, Blockchain, Longevity and more, and highlights the future opportunities.

Artificial Intelligence Industry in the UK Landscape Overview 2021:
Companies, Investors, Influencers and Trends

Artificial Intelligence Industry in the UK Landscape Overview 2021

Coming Soon

Blockchain Industry in the UK Landscape Overview 2021:
Companies, Investors, Influencers and Trends

Blockchain Industry in the UK Landscape Overview 2021

Report **MindMap**

Global mHealth Industry Landscape Overview 2020

New Report

Global mHealth Industry Landscape Overview 2020

Report **MindMap**

AI in UK
ARTIFICIAL INTELLIGENCE INDUSTRY LANDSCAPE OVERVIEW Q3 / 2018

Artificial Intelligence Industry Landscape Overview Q3 / 2018

Report **MindMap**

FinTech for Social Good Special Edition

FinTech for Social Good Special Edition

Report **MindMap**

DeepTech UK Ecosystem: Big Data Analytics Dashboard

Our company is building a sophisticated cloud-based engine for advanced market and business intelligence in the pharmaceutical and healthcare industries. It includes a data mining engine, infrastructure for expert data curation, and advanced visualization dashboards, including mindmaps, knowledge graphs, and 3-dimensional visualizations.

Digital UK Ecosystem Dashboard provides the most relevant information regarding the state of different industries in the United Kingdom by region and the general overview of the country. The dashboard is divided into 5 main directions: Digital Ecosystem, COVID-19 Analytics, Government Investment Initiatives and Programs, Longevity Initiatives, and Investment Digest.

The platform provides an opportunity to monitor digital industry growth in dynamics. In addition, the platform presents geographical data analytics visualizations, advanced 3D mindmaps and charts. Overall, it maintains a unique method in market research and forecasting and trend visualization.

The platform may provide comprehensive, up-to-date information regarding the country to interested parties. The range of parameters depends on the objective and can vary regarding the final goal.

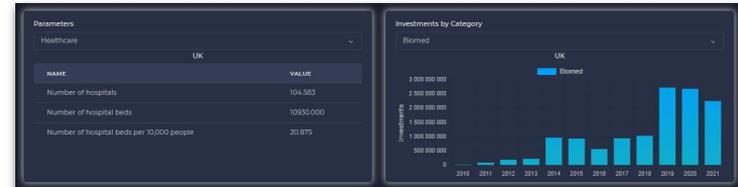
Digital UK Ecosystem Dashboard - General Overview



COVID-19 Analytics



Digital UK Longevity



Global Impact Investing Overview Conference



Global Impact Investing Overview

Conference

16 December 2021 | 5 PM - 8 PM GMT

'Global Impact Investing Overview' is a free virtual event that will bring together influencers and leaders to share their social activities by emphasising the global impact. The event will bring light on emerging opportunities and key trends that will shape the nearest future.

Join us on 16 December 2021 at 5pm GMT.

About Deep Knowledge Philanthropy

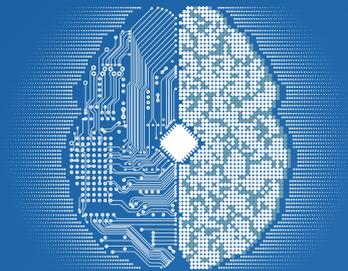
Deep Knowledge Philanthropy is a data-driven non-profit project by Deep Knowledge Group committed to the support, development and advancement of DeepTech for social good, impact philanthropy and ethical investment, founded on the belief that DeepTech innovation is the most efficient driver of 'social profit', technological humanitarianism, and societal development, and that venture philanthropy is the profitable long-term investment for individuals, national economies, and humanity itself.



Deep Knowledge Philanthropy is a non-profit organisation that employs the most sophisticated approaches to analytics used by its founder, the Deep Knowledge Group leader of proprietary analytical research in the longevity and advanced science fields. We aim to use pioneering scientific discoveries to efficiently prolong human lifespan and bring socially-inclusive humanitarian benefit by supporting innovations, science, charitable and sponsorship projects.

The organisation was founded in 2021 to house the sum of philanthropic, non-profit, and influence investment activities, projects and initiatives conducted over the past 5 years under the Deep Knowledge Groups umbrella. Its activities are backed by the quantitative analytics produced by Deep Knowledge Group's 10+ analytical subsidiaries, implementing the most advanced approaches to analytics, benchmarking, predictive forecasting and data-driven strategy formulation and execution to deliver 10x-50x the social impact and ethical ROI per dollar than the non-profit and philanthropy sector average.

Deep Knowledge Group's Analytical and Non-Profit Activities are potent tools for highly efficient and productive engagement with Governments, Progressive Top-Tier Corporations, Industry Influencers, Journalists and a wide range of other strategically relevant personalities and organisations. All of Deep Knowledge Group's activities (from for-profit to non-profit) are structured to support, develop and leverage the power of DeepTech for socially-inclusive humanitarian benefit, based on the foundational principle that technological innovation is the key driver and most efficient tool for improving the quality of life, safety, stability and growth potentials for a global society, and the belief that the highest return on investment is not just profit, but ethical returns and the delivery of added quality of life and developmental opportunities for humanity.



Link to the Report: <https://www.deep-knowledge.org/sustainable-business-uk-2021-q4>

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