



KILSBY
CLIMATE ACTION
FESTIVAL

Kilsby Village

voltalia
RENEWABLE
ENERGY

September 2023



Image by Freepik



AGENDA

1. About Voltalia
2. Voltalia in West Northamptonshire
3. Renewable Energy in the UK
4. Benefits of Renewable Energy
5. Challenges for Renewable Energy
6. How can Voltalia contribute to the Climate Action Plan?

About Voltalia

2.6 GW

in operation or
under construction

14.2 GW

pipeline of projects

20+

countries
on 3 continents

1550+

dedicated employees



SOLAR



WIND



STORAGE



HYDRO



BIOMASS

As of 31.12.2022

Voltaia's Business Model

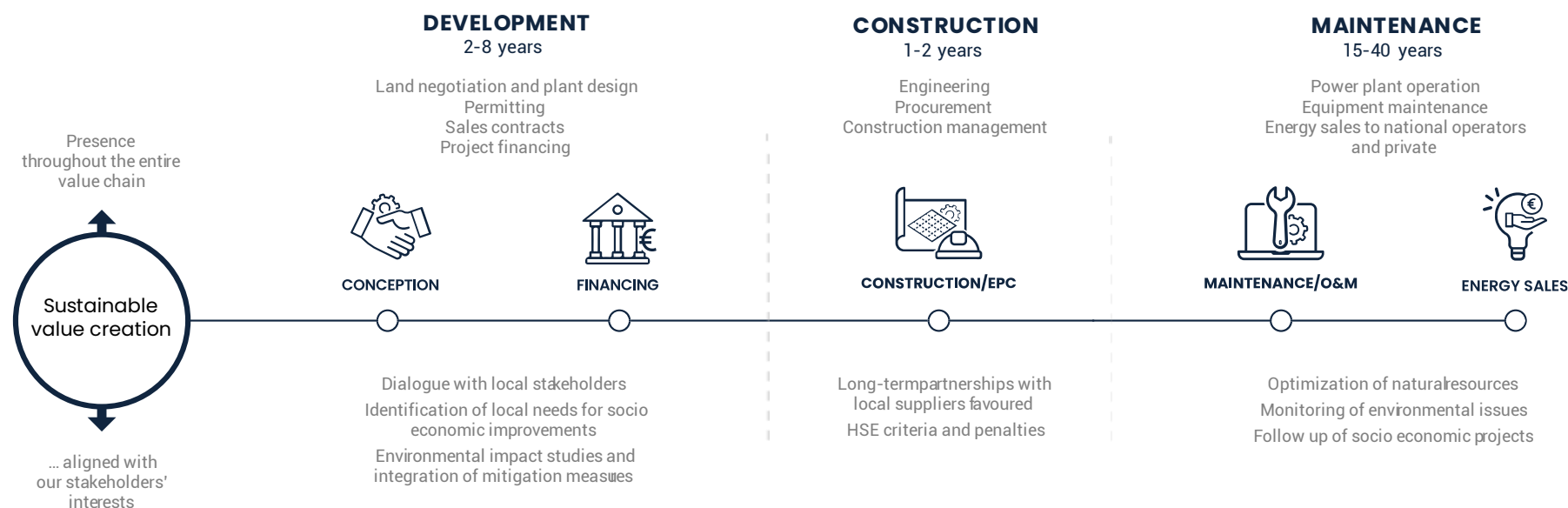
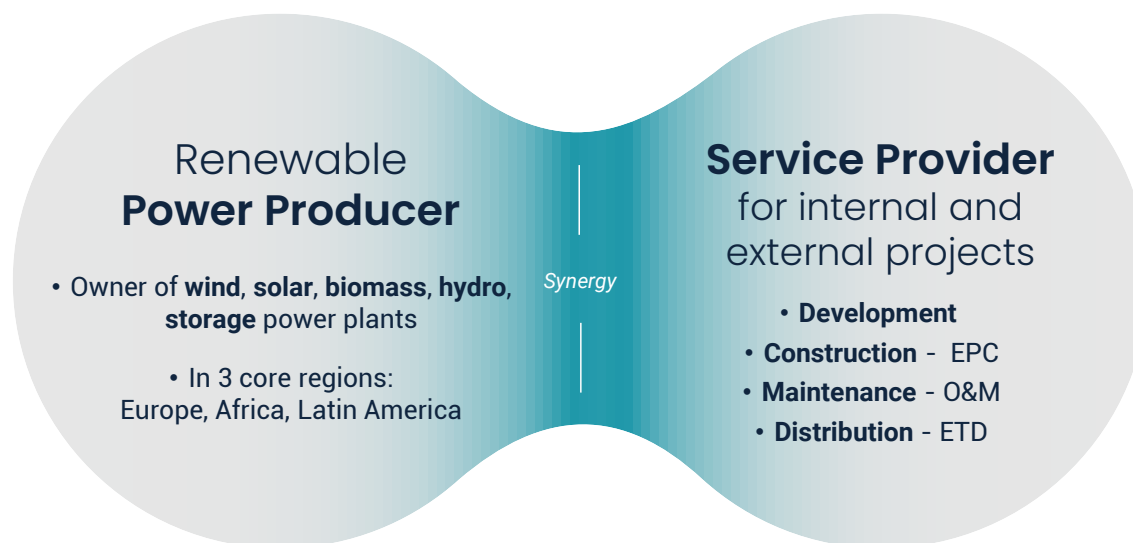




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OUR PURPOSE

*Improve global environment
fostering local development*

OUR COMMITMENTS

MISSION DRIVEN COMPANY*

#1

Act for the production of a renewable energy, accessible to the many

**3.7
TWh**

of clean energy produced in 2022,
which makes it possible to avoid

**1,436
kilotons**

of CO₂

#2

Contribute with the local
population to the sustainable
development of territories

45%

on average of staff recruited during the
construction phase
in Brazil are local employees (1)

#3

Make the best out of the planet
resources in a sustainable way

564 kilotons

of CO₂ equivalent emitted of which 36 ktons
(6%) of direct emissions (Scope 1)

As of 31.12.2022

(1) from the same city or municipality near the plant

Corporate Presentation |

*Voltalia became a Mission-driven Company in May 2021 voted at General Assembly (99.98%). The company has registered in its by-laws a purpose and environmental and social objectives.

Voltalia in West Northamptonshire

Crick Solar Farm

49.9MW
generation



14,194
homes
powered

35,207
tonnes of CO2
displacement
annually

77%
Biodiversity net
gain (Habitats)

127%
Biodiversity net
gain (Hedgerows)

Rainsbrook Solar Farm

13MW
generation



4,000
homes
powered

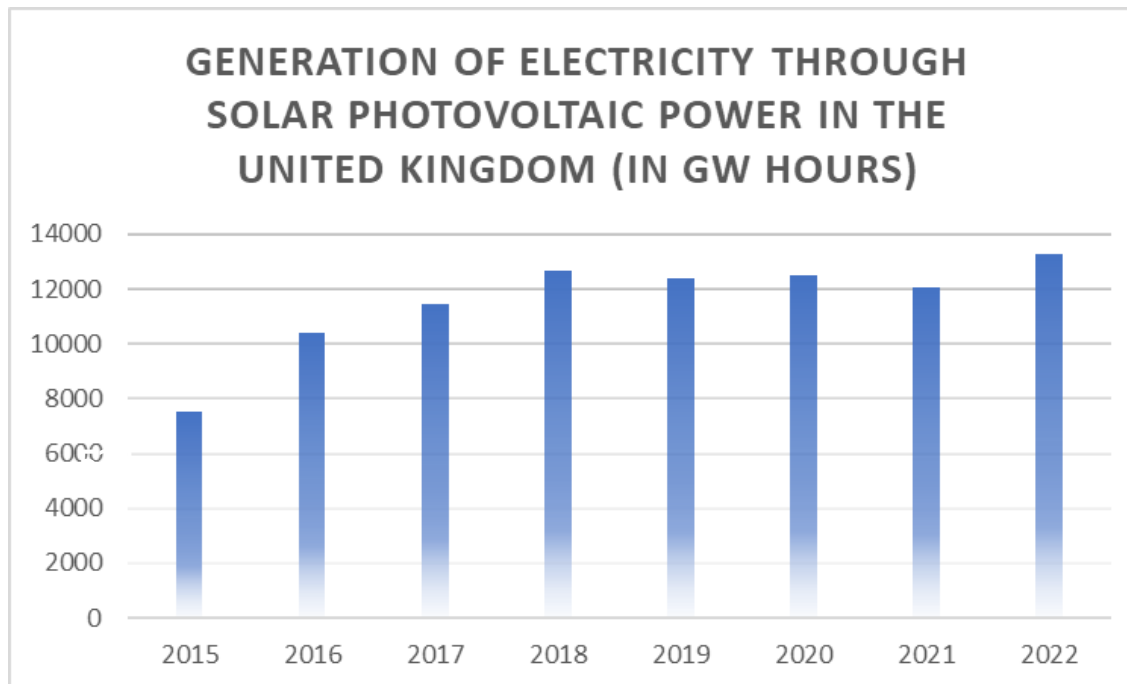
5,590
tonnes of CO2
displacement

173%
Biodiversity net
gain (Habitats)

17%
Biodiversity net
gain (Hedgerows)

Renewable Energy in the UK

- The UK is aiming to reach net zero by 2050
- By 2035, the aim is be decarbonised and fully powered by clean electricity
- This will require an increase of total solar generation capacity from 14GW to 70GW

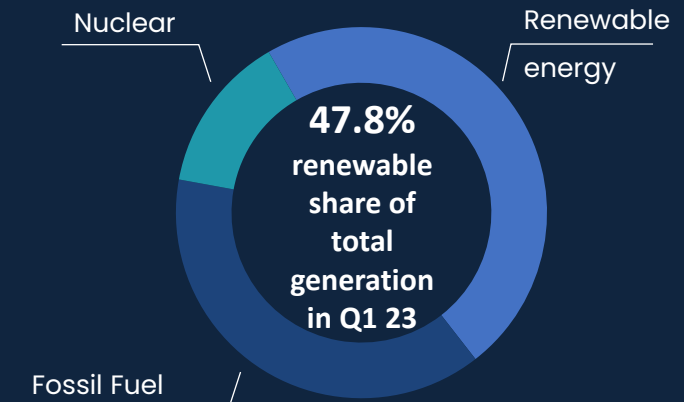


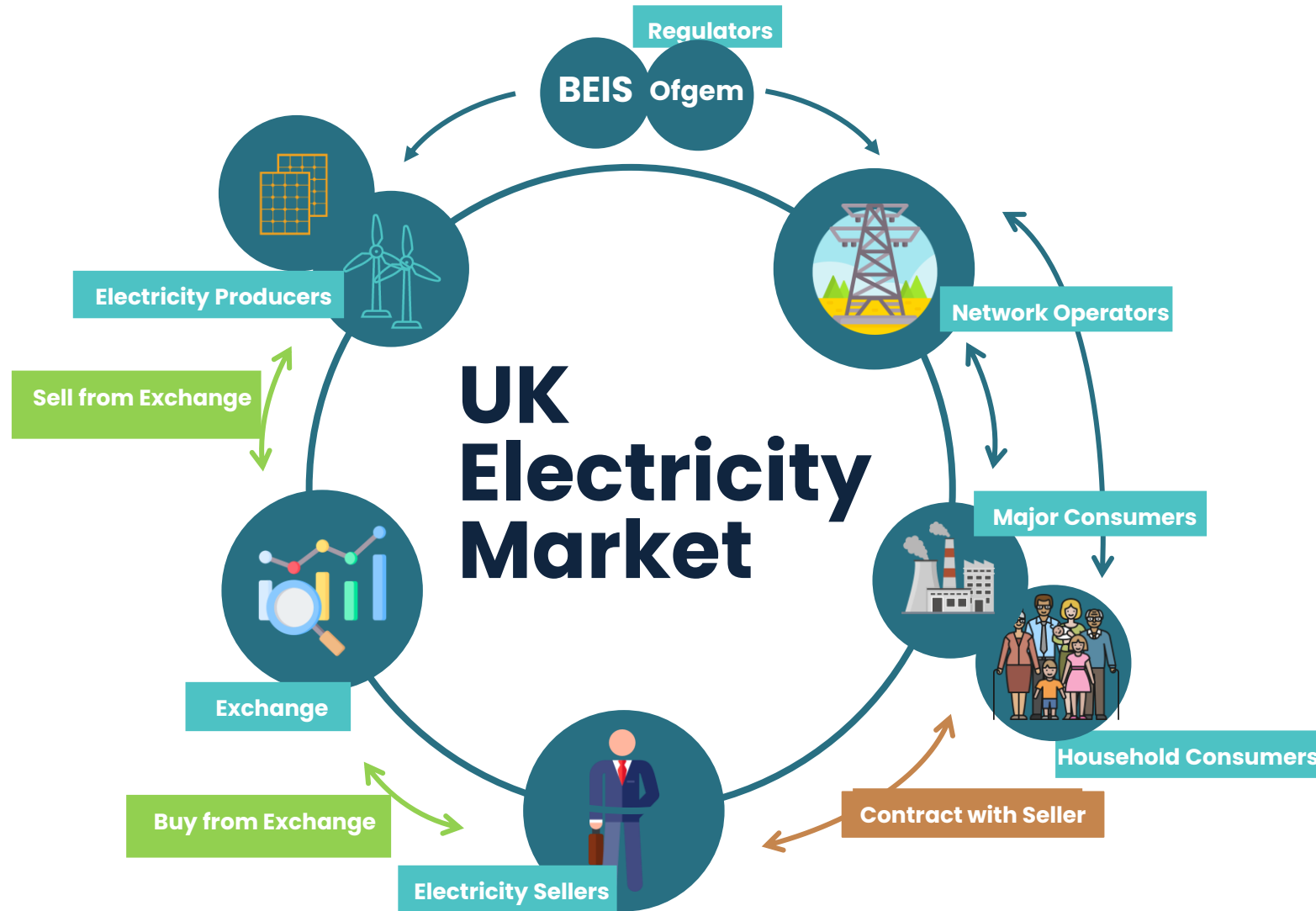
What is renewable energy?

Renewable energy comes from natural sources which are not depleted when used and are replenished at a higher rate than they are consumed.

In the UK, wind power, plant biomass and solar power are the main renewable energy sources.

Electricity generated by fuel type





Benefits of Renewable Energy

Environmental



- Clean energy source;
- Biodiversity Net Gain; and
- Design adapts to the local environment, including ecology, hydrology and landscape.

Land Use



- Development which is designed and adapted according to the local environment;
- Temporary development; and
- Diversification of income for landowners.

Community Benefits



- Community Benefit Fund, providing grants for environmental and sustainable initiatives;
- Opportunities for local educational visits; and
- Investment in the local economy including new jobs and skills.

Challenges for Renewable Energy

Grid Capacity and delays



- Lack of, and aging distribution and transmission infrastructure;
- High grid connection costs due to network upgrades and new infrastructure; and
 - Queuing system of grid applications where developers are waiting to connect for several years.

Consenting regime



- Lack of resource and funding;
- Adaptation of the system post COVID-19; and
- Different requirements based on size and location of project.

Availability of Land



- Landowner;
- Unconstrained land;
- Green Belt; and
- Grid availability.

How can Voltalia contribute to the Climate Action Plan?



Developing and providing renewable energy



Biodiversity and landscape enhancements



Grant funding for community initiatives



Education and employment in renewables



Thank you

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