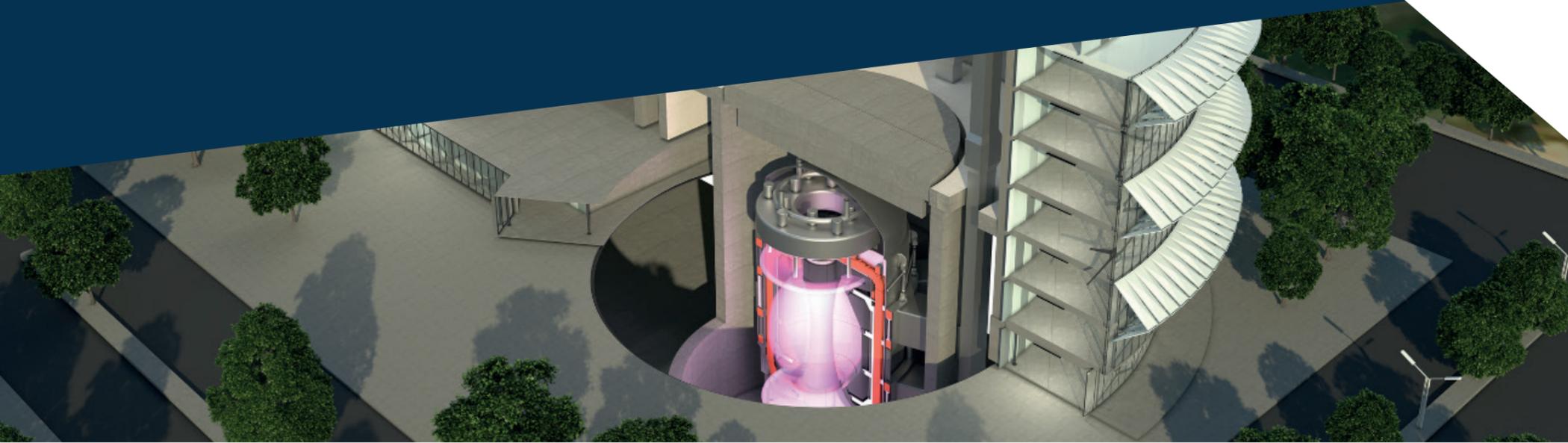


# STEP

## Spherical Tokamak for Energy Production



### What is STEP?

STEP (Spherical Tokamak for Energy Production) is an ambitious programme to design and build a prototype fusion power plant.

It is a UKAEA programme, currently with £222 million funding from the UK Government to produce a concept design by 2024.

As we move beyond 2024 into the engineering design and build phases of the programme we will work with a range of partners to deliver the prototype of a commercially viable fusion plant.

### What are you planning to build?

The STEP prototype will demonstrate the commercial viability of fusion. The learning from this will enable the future development of a fleet of commercial fusion plants.

Once constructed, STEP will produce net energy and prove that electricity can be predictably and stably produced in a fusion power station.



#### Phase 1

The aim for this first phase of work is to produce a 'concept design' by 2024. This means an outline of the power plant, with a clear view on how we will design each of the major systems.



#### Phase 2

Through phase 2 the design will be developed through detailed engineering design, while all consents and permissions to build the plant will be sought.



#### Phase 3

Construction of the prototype power plant will begin in phase 3, targeting completion around 2040

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# Finding a site for STEP

In Autumn 2020, there will be an open call to communities across the UK to host the prototype. UKAEA will make a recommendation to the Secretary of State for BEIS on the most suitable locations for STEP following a rigorous process of assessment using a defined set of key criteria.

More information on the siting process can be found on the website:

[step.ukaea.uk](https://step.ukaea.uk)

## What will the site requirements be?

With the plant still in the design phase, it's not possible to be too precise about exactly what buildings and facilities will be needed on site. This will become increasingly clear in the coming years as the design develops and a site is established.

STEP will have many of the features of a fully operational power station, including infrastructure and associated research and development facilities. It is likely to be of a comparable scale and value as any major power station.

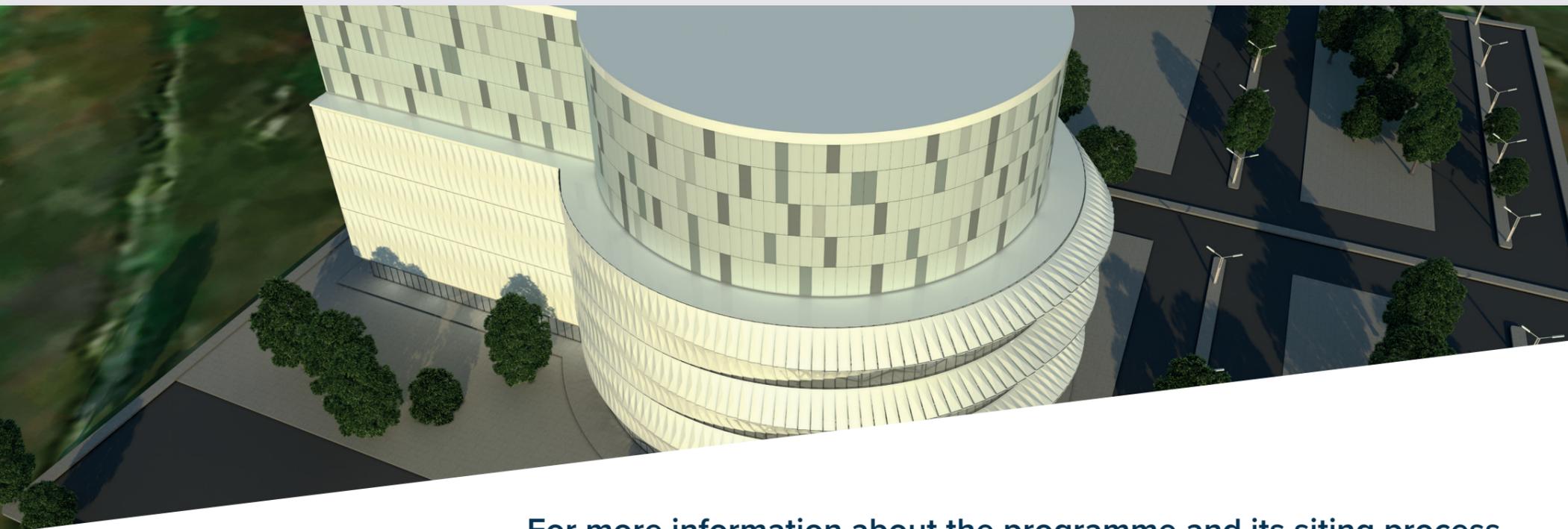
## What benefits are there for the community?

There will be long-term and enduring economic benefits to the host community. STEP will be a project at the international forefront of the clean energy revolution, bringing visibility to the community on a global stage.

STEP will create opportunities for growth across the UK, with jobs at all levels created in the region. The programme will also have a focus on skills development.

The skills needed will mostly be in science, technology, engineering and maths although there will be opportunities across a wide range of roles and skills.

UKAEA has already allocated resources to support an apprentice training scheme in the local area and will work with local education and training providers at the earliest opportunity.



For more information about the programme and its siting process please visit: [step.ukaea.uk](https://step.ukaea.uk) where you can sign up for regular updates.

To discuss any aspect of the STEP programme further please contact: [siting@step.ukaea.uk](mailto:siting@step.ukaea.uk)