



UK Geological Disposal Facility (GDF) Programme

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We are Nuclear Waste Services

Nuclear Waste Services specialises in managing, treating, and safely disposing of the UK's radioactive waste.

Our goal is to ensure that waste is managed in a way that protects people and the environment, now and in the future.



A customer and community focused business with safety at its core

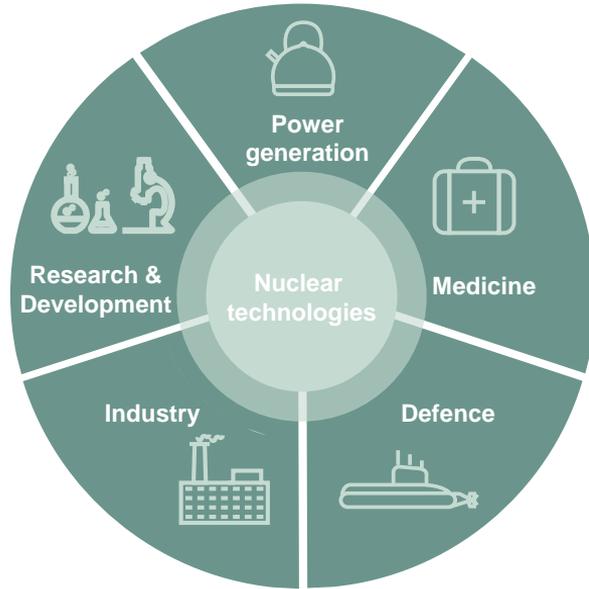


A great place to work, where people are respected, included and can perform at their best



A centre of excellence to drive and deliver value for the taxpayer

UK Radioactive Waste Context



60+ years complex legacy waste inventory

Currently located multiple sites across UK inc. Sellafield

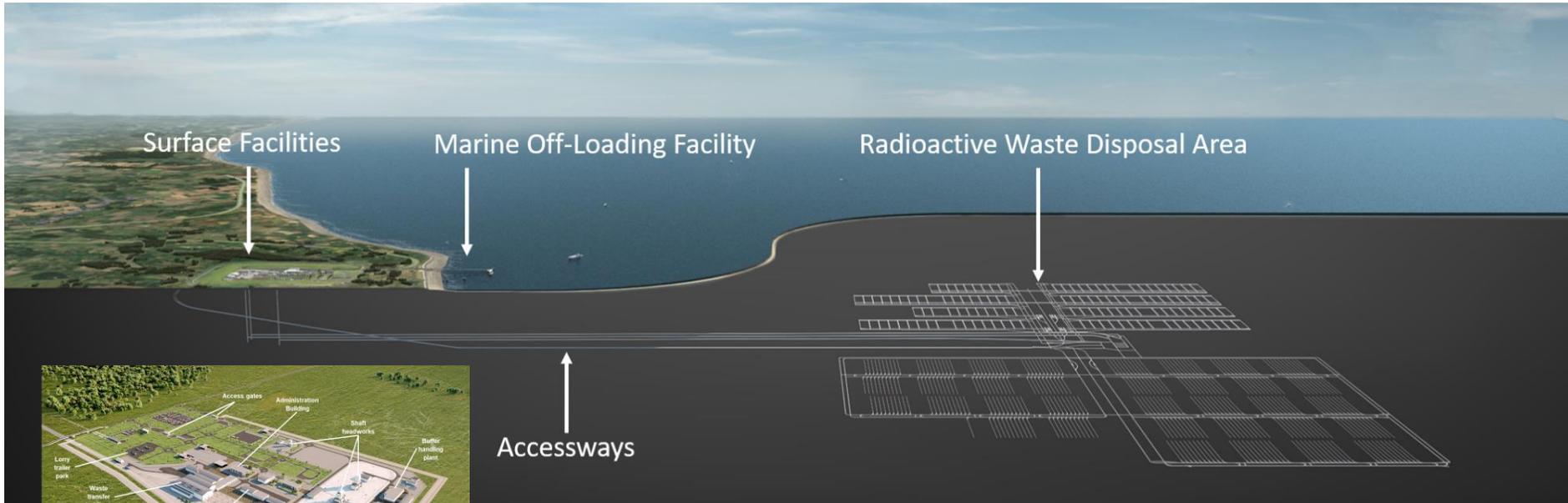
Previous attempts, last ended in 2013 (MRWS) halted by local authority

New consent based policy finalised in 2018

Dealing with future inventory requirements



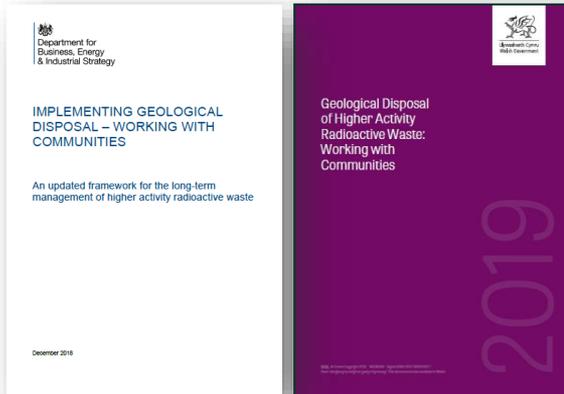
Illustrative GDF Design



Search evaluations will look for surface sites with an area of c.1km²

UK Government Policy

Working with Communities Policy is a consent based process



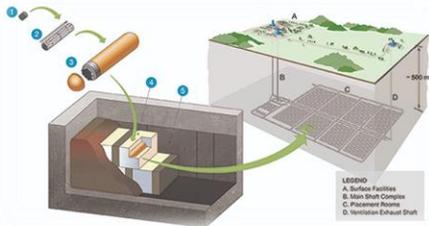
A GDF will only be built where there is both a *suitable site* and a *willing community*.

We have set out Community Guidance and How We Will Evaluate Sites



We have proactively engaged on how we will operate and the processes we will use

Internationally recognised as the best solution



NWMO
(Canada)



NAGRA
(Switzerland)



POSIVA
(Finland)



SKB
(Sweden)



ANDRA
(France)



What does the Energy Security Strategy mean for a GDF?

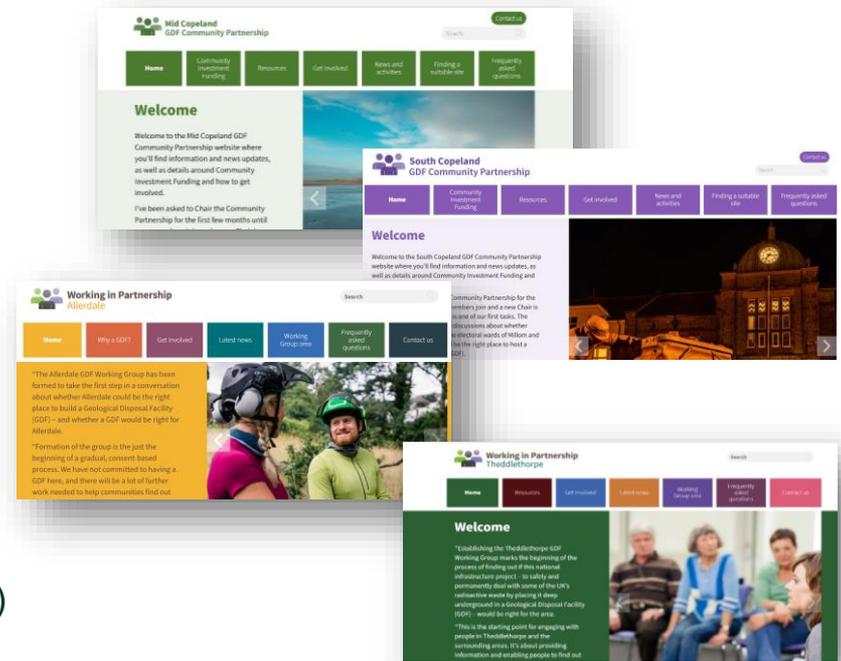
We are confident we can meet the revised requirements of 24GWe of nuclear energy set out in the Government's Energy Security announcement in April 2022:

- Our current GDF plans are flexible and adaptable
- We are planning far ahead now for a GDF that will be built over many decades into the future
- The GDF will be built in a modular fashion, allowing for greater flexibility to accommodate changes
- The inventory for a GDF is regularly updated and factored into our planning
- A GDF will only be constructed once the independent regulators are satisfied that it can safely fulfil its purpose in protecting both current and future generations
- We will continue our commitment to working in partnership with local communities, ensuring it works for the host community and the country as a whole

We currently work with four communities

We have four communities who want to work with us to explore the implications and benefits of a GDF:

- **Mid Copeland - Community Partnership** formed November 2021
- **South Copeland - Community Partnership** formed December 2021
- **Allerdale - Community Partnership** formed January 2022
- **Theddlethorpe - Working Group** formed October 2021 (with plans for a Community Partnership)



Significant benefits from hosting a GDF

Community support

Community investment funding for local projects/facilities – environmental protection, land remediation, conservation, flood risk and civic facilities



Infrastructure investment

Significant investment in infrastructure in line with local plans
e.g. transport, health, education, connectivity

Jobs and skills

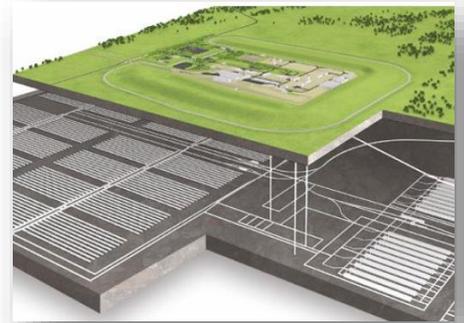
2,000+ jobs for initial 10 year construction phase.

Average of 800 FTEs in construction, operations, safety, logistics for over 100 years

Plus all related supply chain jobs

A GDF – a massive undertaking and a huge opportunity

- **Once in a lifetime** design and engineering challenge
- **Nationally Significant Infrastructure Project** backed by UK Government
- Building a GDF up to **1,000 metres** underground
- Operating Plant lifespan **+100 years** – long term opportunity
- **25 year** design and build programme
- **Multi-billion** pound project
- **A huge investment in host community**
- Between **800 - 2000 jobs** over 100+ years lifetime
- **High skilled** engineering, science and operations **careers**
- Capable of disposing both **past and potential future waste**





Thank you