



Securing a safer future for us all

Introducing Nuclear Waste Services



Nuclear Waste
Services

Securing a safer future



Corhyn Parr, Chief Executive Officer

We are creating a single business to enhance the service available to waste producers with more efficiency, greater speed and at lower costs.

Nuclear Waste Services brings together the UK's leading nuclear waste management capabilities.

We have integrated the expertise of Low Level Waste Repository (LLWR), Radioactive Waste Management (RWM), and the Nuclear Decommissioning Authority (NDA) group's Integrated Waste Management Programme (IWMP). This creates an organisation focused on the management of the UK's nuclear waste, safely and securely for generations to come.

We are part of the NDA group, which is undertaking the biggest clean-up project in Europe over many decades. Nuclear Waste Services is integral to this environmental clean-up mission, as we work to provide permanent answers to our country's nuclear waste.

The UK has been producing and managing radioactive waste on an industrial scale since the 1940s. However, today's approach and capabilities for waste management need to adapt to keep pace with NDA's decommissioning ambitions. This includes its commitment to recycle 50% of waste from decommissioning and reduce secondary wastes by around 70% by 2030.

Coming together as a single business provides an integrated way of tackling waste of the past, while offering more sustainable and efficient services to waste producers, now and in the future.

We want Nuclear Waste Services to be a great place to work where everybody is action orientated, ambitious, collaborative and acts with integrity. It will combine the talent of our people and give them an environment in which to thrive. Not only will this be good for our people, but also allow Nuclear Waste Services to grow its capability even further.

We will be driven by doing the right thing for our people, customers, partners, and the communities where we operate to ensure all our operations are safe and secure.

Our key commitments

1 We will be a safe and responsible business



2 We will be customer and community focused



3 We will develop capabilities



About us

We are specialists in the treatment and disposal of nuclear 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



4 Introducing Nuclear Waste Services



Introducing your GDF Working Group

Jacelyn Watters
Facilities Lead

Jacelyn is committed to protecting our natural environment and heritage.

Jacelyn was a member of the Northern Downs National Park Authority for the past eight years. She has also worked for and with several charities, and is committed to health and justice services. She is a learner and runs her own small business.

Bob

Bob is a member of the GDF Working Group.

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Our vision

To secure a safer future for us all

Our mission

Protecting people and the environment by managing the UK's nuclear waste innovatively and sustainably



Our work

Nuclear Waste Services will build on work delivered over many decades, while adding more essential services for customers in the nuclear energy, defence, industrial, medical, and research sectors.

We'll draw on years of innovation by LLWR, where a full range of specialist skills and solutions – waste characterisation, treatment, recycling, volume reduction, packaging, and disposal – have been developed. This has optimised the lifetime of the repository. Waste is only disposed directly at the repository site if it cannot be diverted for alternative treatment and disposal.

Developing a Geological Disposal Facility (GDF) for the permanent disposal of higher activity radioactive wastes is a strategic imperative, and represents one of the UK's largest environmental and infrastructure programmes. The UK search for a suitable site is, uniquely, based on consent from a willing community and includes a right to withdraw from the process right up until a test of public support.

One of our commitments is to work with waste producers to overcome a range of challenges and to capitalise on new opportunities. We will do this by thinking differently about waste and enabling a flexible approach to long-term waste management.

The IWMP has been charged with this work, creating, and developing new approaches and defining the appropriate implementation routes. This will be crucial for delivering more efficiency, greater speed and lower costs.

Nuclear Waste Services will continue to put the voice of our people, customers, communities, and supply chain at the heart of everything we do.

What we do



Major Capital Programmes

Project developer

Managing the delivery of large-scale capital projects, with an initial focus on a GDF. This involves working with communities to find a suitable site and a willing community to host a GDF.



Waste Operations

Nuclear site licence operator

Responsible for managing and operating sites, like the repository, that fall within the remit of Nuclear Waste Services. The focus is on the safe, compliant, and effective management of waste management infrastructure.



Waste Services

Service provider

Working with customers to provide waste management services and solutions to address their challenges. As well as providing advice and expertise, we manage contracts and relationships across the waste cycle.



Integrated Waste Management Programme

Developing new waste management capability and opportunities to work group-wide as part of a broader integration programme to underpin the NDA's and nation's strategy of a more joined-up approach to waste management.



Enabling functions

Supporting functions include commercial, communications and stakeholder relations, EHSSQ, finance, HR and legal. These ensure high standards are maintained, and the business has the right resources and processes to deliver effectively and efficiently.

How we work

Nuclear Waste Services operates in an integrated way, with one brand and one executive management team. It combines the best from LLWR and RWM to create a stronger collective business. Everybody's contribution will ensure our business succeeds.

We will be a great place to work, interacting collaboratively in an environment of respectfulness, openness, performance, creativity, and innovation. And as we come together as Nuclear Waste Services, we're developing a distinct way of working.



Action orientated

We will deliver for our customers, communities, partners and people, safely and securely



Ambitious

We are problem solvers who embrace and act upon new challenges



Collaborative and inclusive

We have greater success when we work together



Acting with integrity

We can be trusted to build a safe, secure, and sustainable future



Our people

There is no Nuclear Waste Services without our people. The business represents some of the most brilliant minds from across the nuclear industry. As a centre of excellence, we bring together the best of expertise from many specialisms – science, engineering, safety, operations, commercial, community engagement and regulatory – to name a few.

Bringing all this talent together will enable us to grow our skill base even further and by nurturing such expertise ensures waste management remains an essential capability.

We'll also invest in developing the skills that we need for our long-term mission – including graduate and apprenticeship programmes.

Delivering an integrated approach



Industry



Powerplant



Research



Medicine



Defence

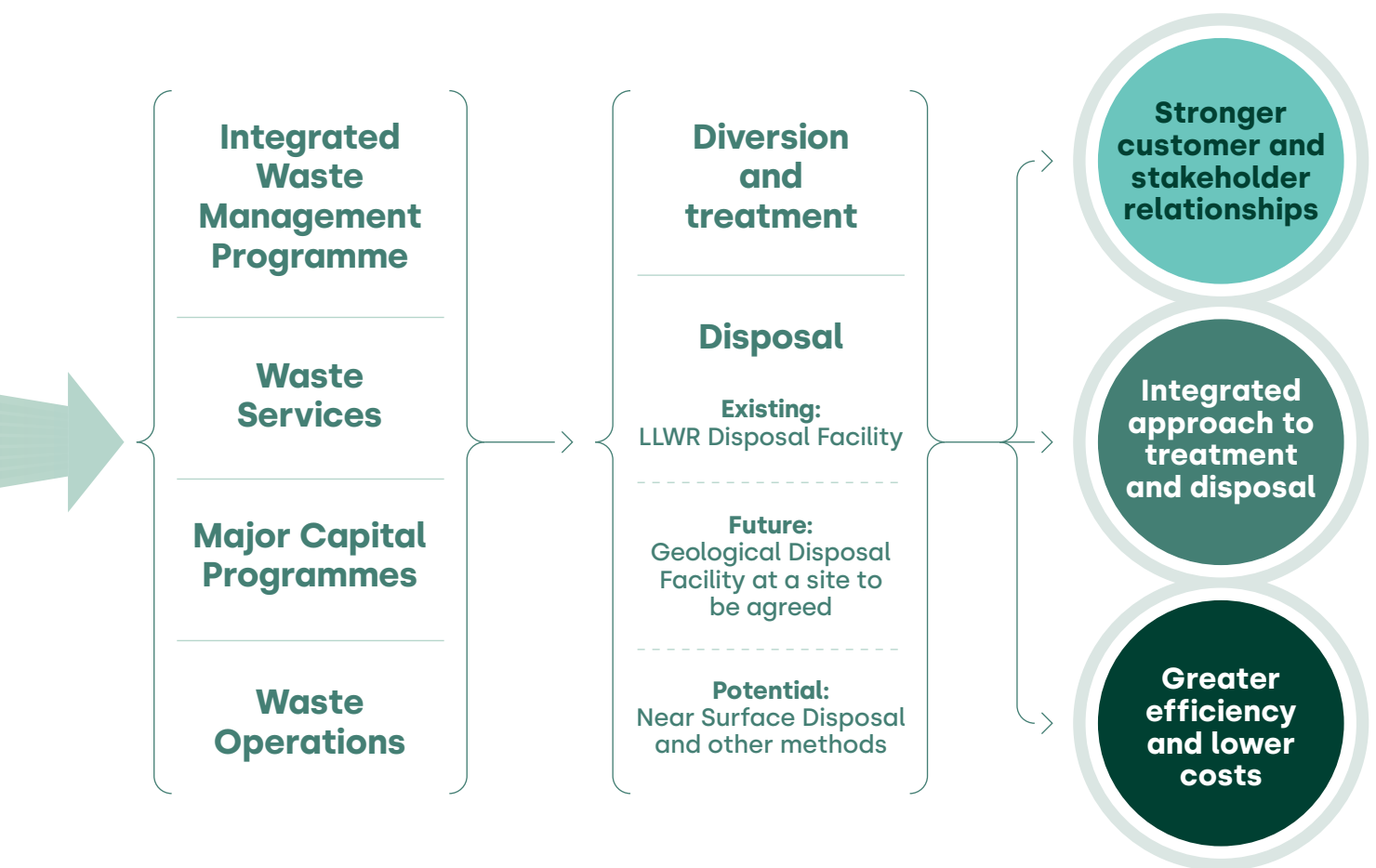


Reprocessing

1,318
radioactive
waste streams¹

¹ UK Radioactive Waste Inventory 2019

An integrated approach to our work will help ensure that we put the right waste in the right place, at the right time and at the right cost. We'll prioritise customer service and long-term trust-based relationships, while focusing on sustainability and value for money.



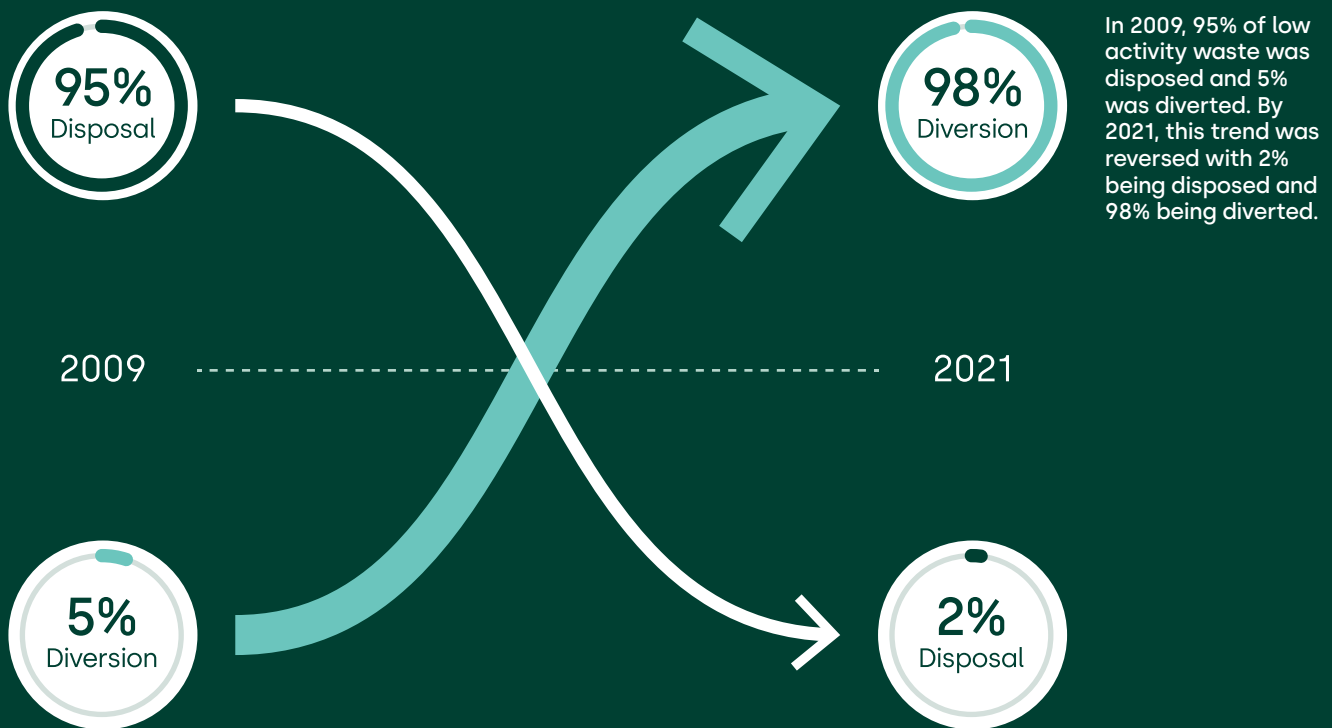
Scale and scope

4 million m³

More than 4 million cubic metres of waste is still to be recovered and treated to complete the UK's decommissioning programme¹

1,318

1,318 different streams of radioactive waste exist within the UK^{2,3}



20%

Activities in the IWMP account for almost 20% of the total nuclear provision (the cost of decommissioning NDA sites)

1,070

The equivalent of 1,070 double decker buses of radioactive waste is currently in storage⁴

£700m

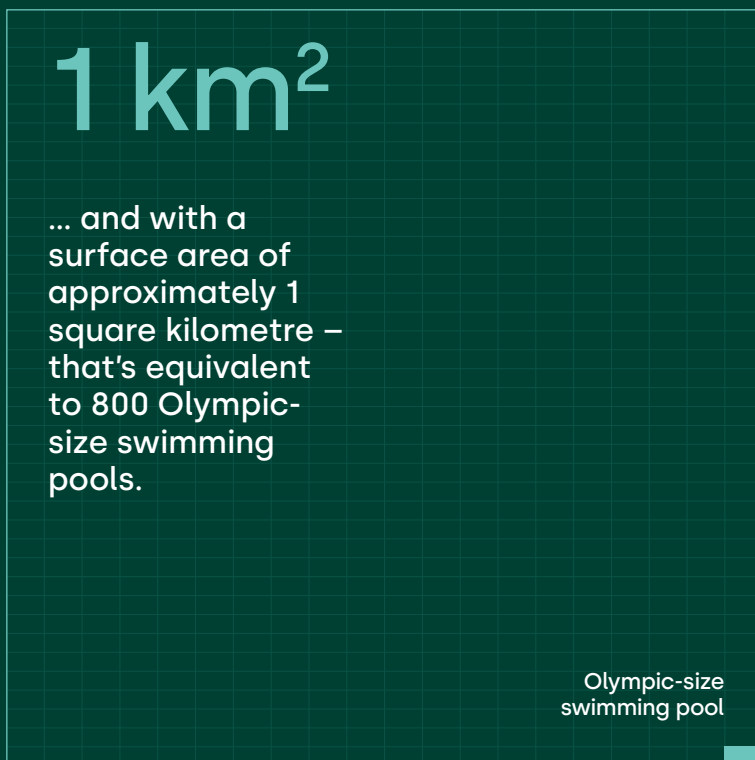
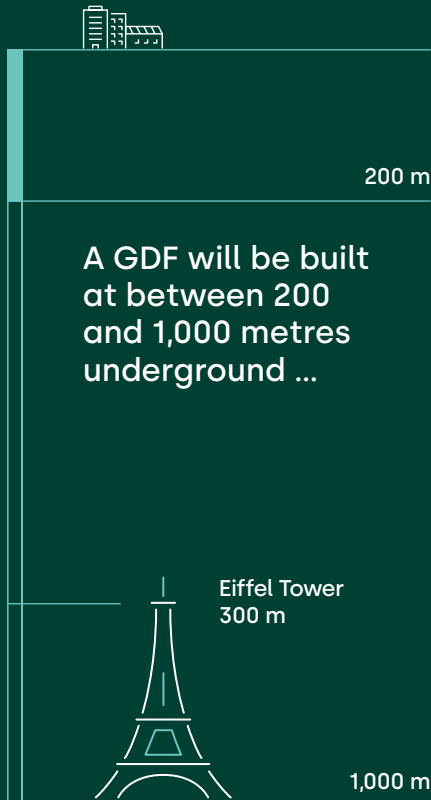
Diverting large volumes of lower activity waste generated costs savings of £700 million⁵

£2bn

Integrated low activity waste treatment and disposal solutions resulted in £2 billion cost avoidance

90%

Over 90% of the UK radioactive waste predicted volumes are generated by the NDA estate⁶



1 UK Radioactive Waste Inventory 2019

2 UK Radioactive Waste Inventory 2019

3 A waste stream includes waste or a collection of waste items at a particular site, usually in a particular facility and/or from a particular process or operation

4 UK Radioactive Waste Inventory 2019

5 As at 2021

6 NDA Radioactive Waste Strategy 2019

Part of the bigger picture

**Nuclear Waste Services is part of the NDA group.
Around 90% of the UK radioactive waste predicted
volumes are generated by the NDA estate¹.**

NDA is a non-departmental public body with a long-term mission to clean-up the UK's earliest nuclear sites safely, securely and cost-effectively with care for people and the environment. Effective, optimised waste management is essential for the delivery of this work.

The group's vision is to:

- Deliver the mission together safely, securely and more creatively, transparently and efficiently
- Create great places to work and take pride in what we do
- Be trusted to do more in the UK and globally

Waste isn't just generated by the NDA group. Industry, research, medicine, defence and other sectors all produce radioactive waste. Nuclear Waste Services will continue to serve customers across a number of sectors with the aim of enhancing the services available to waste producers with more efficiency, greater speed and at lower costs.

1 NDA Radioactive Waste Strategy 2019



Locations in the UK that generate, store or dispose of radioactive waste

NDA Group

1. Cumbria, LLW Repository
2. Cumbria, Sellafield
3. Hunterston A, Magnox
4. Chapelcross, Magnox
5. Wylfa, Magnox
6. Trawsfynydd, Magnox
7. Berkeley, Magnox
8. Oldbury, Magnox
9. Hinkley Point A, Magnox
10. Dungeness A, Magnox
11. Bradwell, Magnox
12. Sizewell A, Magnox
13. Harwell, Magnox
14. Winfrith, Magnox
15. Dounreay, DSRL

Chemical Plants and Other Facilities (Non-NDA)

16. Amersham, GE Healthcare
17. Preston, Springfields Fuels
18. Capenhurst, Urenco

Defence and/or Submarine Sites (Non-NDA)

19. Vulcan Naval Reactor Test Establishment, MOD
20. Clyde Naval Base, MOD
21. Rosyth, Rosyth Royal Dockyard
22. Barrow, BAE Systems
23. Devonport Naval Base, MOD
24. Raynesway, Rolls Royce Submarines Ltd (Manufacturing)
25. Raynesway, Rolls Royce Submarines Ltd (Neptune)
26. Burghfield, AWE
27. Aldermaston, AWE

Nuclear Power Stations (Non-NDA)

28. Hunterston B, EDF Energy Nuclear
29. Torness, EDF Energy Nuclear
30. Hartlepool, EDF Energy Nuclear
31. Heysham 1 and Heysham 2, EDF Energy Nuclear
32. Hinkley Point B, EDF Energy Nuclear
33. Sizewell B, EDF Energy Nuclear
34. Dungeness B, EDF Energy Nuclear





www.nuclearwasteservices.uk

Nuclear Waste Services is a joint trading name of LLW Repository Limited (Company Registration No. 05608448) and Radioactive Waste Management Limited (Company Registration No. 08920190). Both of these companies are registered in England and Wales with their registered office located at Pelham House, Pelham Drive, Calderbridge, Cumbria CA20 1DB.

Part of the NDA group

