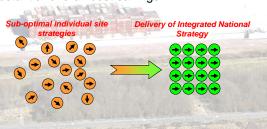
# Preparing the UK National Low Level Waste Repository for the Next Century of Radioactive Waste Management

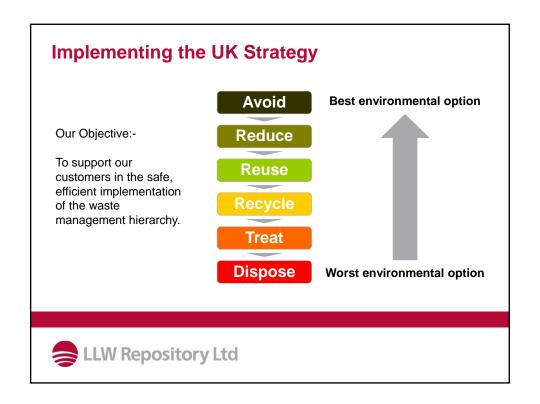
David Rossiter Head of National Strategy Implementation LLW Repository Ltd

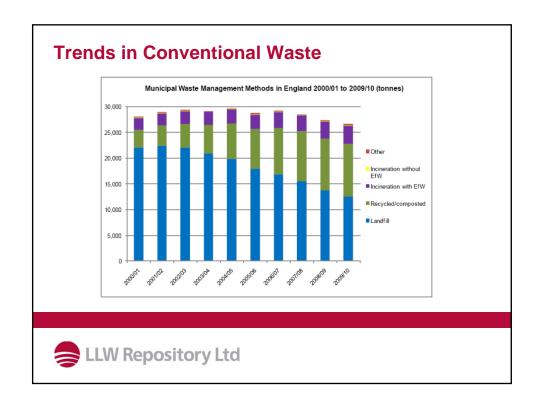


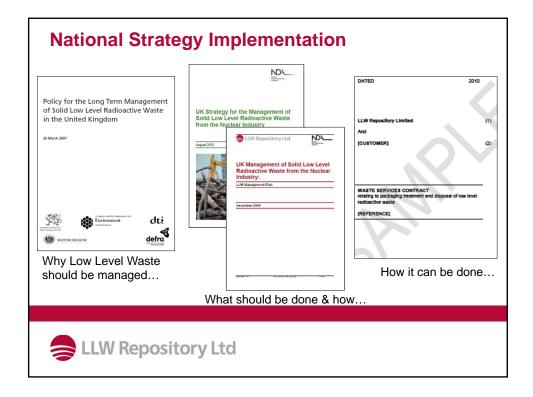
# **LLWR** is the lead for the LLW National Programme

- Partnership with NDA implemented as part of successful contract award to UKNWM at the LLW Repository
- Purpose is to establish a UK-wide integrated National LLW programme to:
  - Develop and implement a National LLW Strategy
  - Extend the life of the repository
  - Obtain substantial overall cost savings









#### **Development of NDA LLW National Programmes**

- National Programmes describe estate wide scope involving multiple PBOs/SLCs/M&O contracts and stakeholders
  - Desire to manage cross-SLC work activities in a more co-ordinated manner
  - Clearer definition of roles, responsibilities and delivery outcomes & benefits
  - Greater accountability for delivery and meeting overall programme aims
- LLW National Programme designed to drive compliance with Government policy and NDA strategy
- Need to track performance on all activities including:
  - Work undertaken by waste producers
  - Estate wide enabling activities
  - Delivery of Policy and Strategy implementation



## **Segregated Waste Services**

- · Current Waste Management Services;
  - -Metallic Waste Treatment, 6 facilities
  - available
    -Combustible Waste Treatment, 8 facilities available
- · Waste Packaging solutions;
  - -Disposal containers, 6 existing and 2 new
  - designs
    Reusable Transport containers and inners
    -Waste consignment and technical support
    services
- Waste Management Services to be introduced during 2011
  - Waste Characterisation

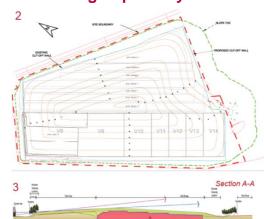
  - -Multi-modal transport
    -Container Maintenance and inspection



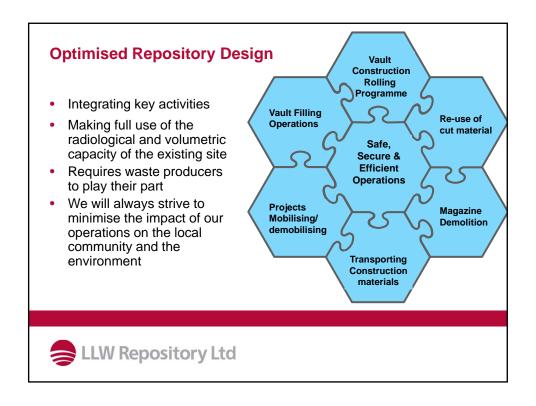


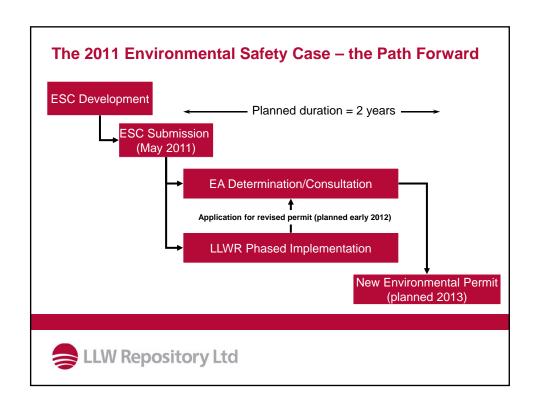
#### **Maximising the Benefit of the Existing Repository**

- 2011 Environmental Safety Case will
  - Radiological capacity of the site
  - Environmental safety of the proposals
- Innovations we are delivering:-
  - Optimised emplacement strategies (including higher stacking)
  - More efficient container designs
  - Options for VLLW
    - Alternative disposition routes for VLLW
    - Beneficial reuse on the LLWR site
  - Waste treatment for volume reduction
  - Optimised future vault and closure engineering designs
- The 'carrot' is £2Billion Cost Avoidance









### **Summary**

- A sustainable approach to disposing of the UK's Low Level Radioactive Waste is now being implemented
- The LLWR Site Licence Company, its customers, regulators, NDA and the local community all have a role to play
- Delivering these solutions will need sustained effort from all concerned – but the benefits will be significant
- The benefits of this approach are readily transferable to higher activity wastes



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