

Development of UK LLW Strategy

*Presentation to
West Cumbrian Sites Stakeholder Group
LLWR Subcommittee
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LLW Strategy Mandate

- Government Policy mandates the role to NDA in providing effective LLW Management in the UK
- Principle objective is to ensure continued capability and capacity for LLW management and disposal
 - Supporting decommissioning, cleanup, and site restoration mission for civil public sector nuclear sites
 - Maintaining on-going operations at nuclear power stations and other nuclear sector facilities
- NDA will also support Government in developing a UK-wide strategy for the non-nuclear industry

The Strategic Issues

- Current emphasis on disposal at LLWR
- Limited application of the waste hierarchy to date
- Current system not fully optimised or cost-effective
- LLWR could be full or unavailable in near future
- Long-term capacity and viability of the LLWR site
- Large cost liability to the NDA
- Large uncertainty in the waste inventory



Conclusion - *Business-as-usual LLW management is not sustainable*

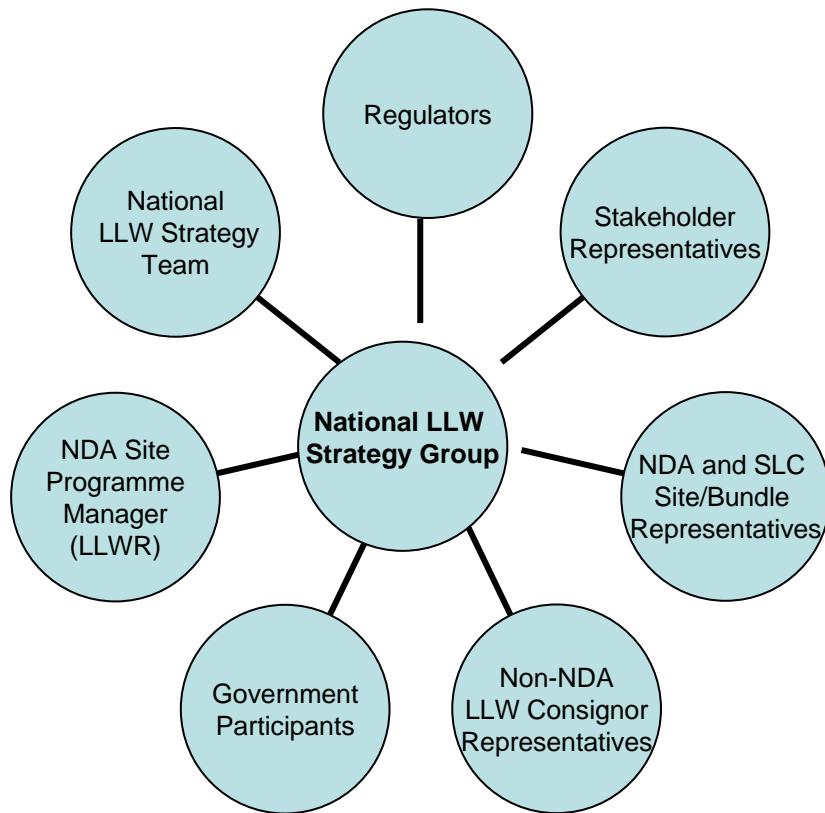
LLWR National LLW Strategy Team

- Established as a key provision in the new LLWR Contract effective on 1 April 2008
- Working in partnership with the NDA in implementing an integrated UK LLW Management Programme
- Strategy Team with expertise and experience in LLW management
 - Waste characterisation and radiological/hazardous monitoring
 - Waste treatment, storage, and disposal operations
 - Waste programmes, including waste tracking, data management, and environmental & option assessments

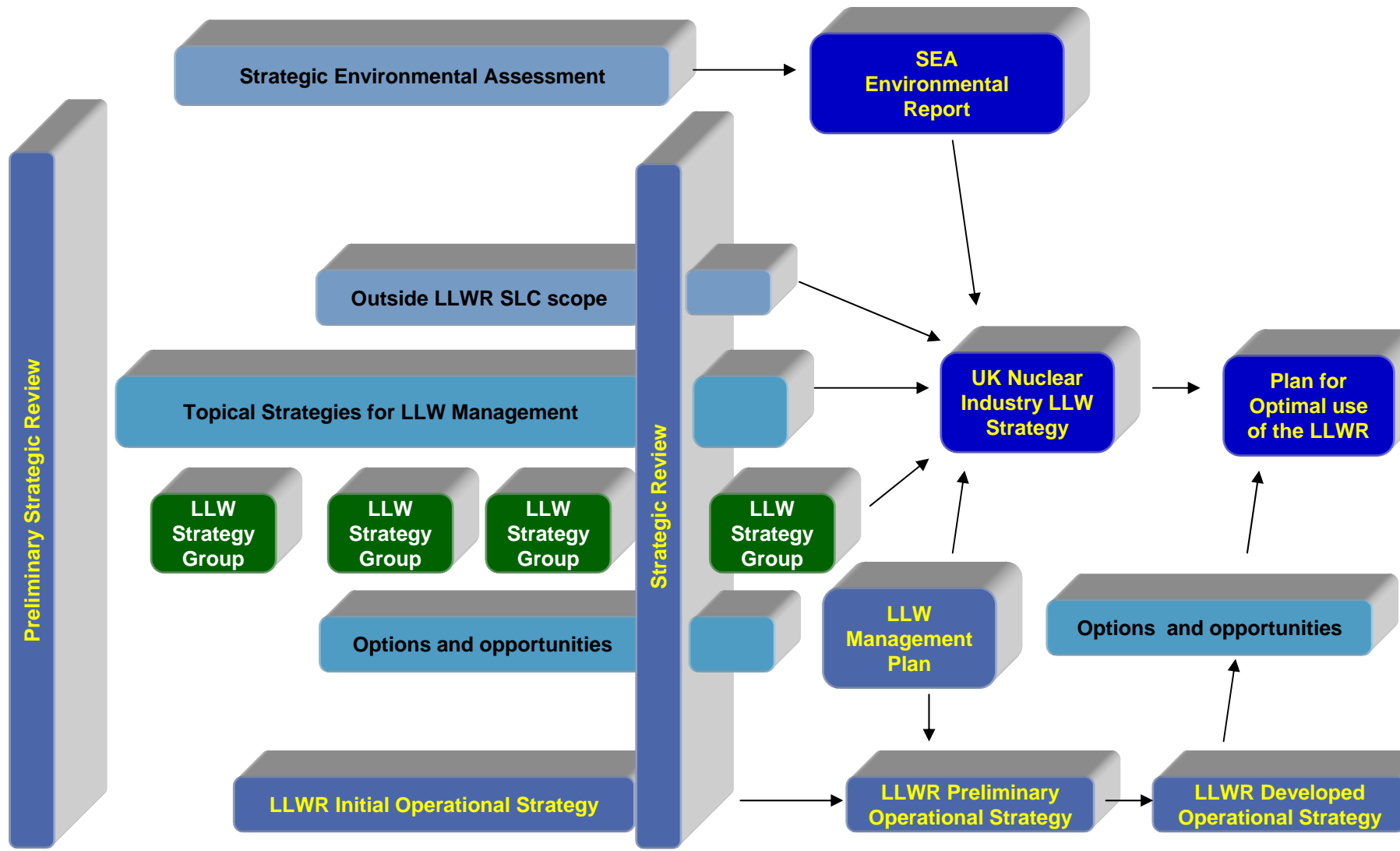
National LLW Strategy Group

- Key recommendation contained in the tender from UK Nuclear Waste Management (UKNWM)
- Established to develop a working partnership between NDA, LLWR, Regulators, Consignor sites, and stakeholders
 - Promotes innovation and estate-wide improvement
 - Focuses on value for money
 - Encourages use of the waste management hierarchy
- Four National LLW Strategy Group meetings held since April 2008
- Critical as a “Consultative Forum” for LLW Strategy

NDA National LLW Strategy Group Members & Participants



LLW Strategy Development Process



Strategic Review Objectives

- Establish a credible UK LLW baseline
- Use the UK LLW baseline to identify where opportunities and synergies exist for integration of waste management on a national, regional or multi-site basis
- Identify ways to help the NDA to reduce LLW costs across its sites by 10% below the baseline



Strategic Review Document

- Delivered to NDA on October 24, 2008
- The LLW Strategic Review provides a “snapshot” of the current baseline of LLW management in the UK
- Key Results:
 - Total forecasted LLW inventory – 3 million m³ thru 2129
 - LLWR could be full by 2030 under business-as-usual approach
 - Total lifecycle cost for LLW Management – nearly £10 bn
 - Substantial opportunities for cost savings & efficiencies through an integrated LLW Management Programme in the UK
 - Potential to extend LLWR lifetime to 2070 and beyond

Topical Strategies for LLW Management

- Preliminary topical strategies were published for consultation in April 2008
- Feedback from consultation and strategic review used to update strategies
- Delivered to NDA on 28 November 2008
- Matured Topical Strategies produce the “what” for the UK LLW Strategy
- Key results:
 - 28 individual strategy statements that provide strategic direction and guidance for UK-wide LLW Management
 - Strategy Statements provide the primary focus for the future National LLW Strategy

National LLW Management Plan

- Scheduled to be delivered to NDA on 17 February 2009
- The UK LLW Management Plan will provide the “how” and “when” for integrating LLW management in the UK
- Currently planning **54 Initiatives** to implement and enhance the UK LLW Management Programme
 - Plan will identify the scope, schedule, and methods of implementation
 - Initiatives are categorised by the following:
 - Application to the waste management hierarchy
 - Waste Packaging
 - Waste Transportation
 - Waste Tracking/Inventory Management
- Strategies and plans will be underpinned by option and opportunity studies and business cases to validate efficiencies and value for ££

Path Forward in 2009

- NDA will undertake full Strategic Environmental Assessment and Sustainability Appraisal for LLW Strategy
- Develop and publish UK Nuclear Industry LLW Strategy for consultation in March 2009
- Develop a plan for the optimum use of LLWR

Participation in the Emerging LLW Strategy

- Opportunities for input through formal consultative routes and stakeholder forums
- Local community interests represented on National LLW Strategy Group by CCC and NuLEAF
- All presentations and strategic deliverables on LLWR website

www.llwrsite.com