

Research Sites Restoration Ltd





Perspective	Demolition	Redevelopment	Perspective	Demolition	Redevelopment
Functional	Structures and assets with no useful function are removed.	Structures and assets with functional value for the next use of the site are retained and may be reconfigured for a new use.	Resource use	be The land occupied by the nuclear facility is unavailable for use during decommis- sioning, demolition and restoration. The subsequent lead time needed for any new use will further delay access to the resource.	The land is returned to use earlier, allowing development on a brownfield site rather than on more sensitive or valuable land. (However, restrictions might be placed on use of a brownfield site.)
Physical	The site is returned to a state similar to its predevelopment state.	The site is transformed into new industrial, commercial, recreational or residential property, possibly with some			
		portions of the facility retained.	Financial	Cash flows are negative until the completely restored site is	Costs of decommissioning and restoration are reduced, can be
Ownership	facility for a long time after	transferred during or soon after the elimination of radiological	leased or sold.	offset by the development value of the land and are recovered more quickly.	
	release from regulatory control, until a new owner takes over.	hazards. (Note: This process is based on national legislation.)	Decommissioner	The decommissioner is free to plan and execute the work	Planning and execution of decommissioning are carried out
Risk based Ieanup	Most conservative risk assumptions are used to determine remediation goals.	The proposed new site use deter- mines the remediation goals, consistent with protection of		within financial and regulatory constraints.	in consultation with the development to maximize the redevelopment value of the site.
Community	Economic activity associated with the site is lost.	human health and the environment. New economic activity replaces economic activity lost by closure of the nuclear facility.	Long term stewardship	The owner remains responsible for monitoring residual contamination and continues to maintain any institutional	Management of all site activities becomes the responsibility of the new owner.
Decommissioning olanner	The decommissioning end point is defined by what is known about the original state of the site and current legislative and regulatory requirements.	Identification of the decommissioning end point depends also on the planned end use and any redevelopment agreement.	In the UK delicensing requires		
Liability nanagement	The owner remains liable for harm caused by any failure to completely restore the site until it is released from regulatory control. (Note: Liability after	The owner transfers the site and possibly the residual liabilities to the new owner. (Note: This process is based on national legislation.)	returning the site to a condition suitable for any foreseeable future		





Tate Modern

- Former Bankside Power Station, which was originally designed by Sir Giles Gilbert Scott, the architect of Battersea Power Station, and built in two stages between 1947 and 1963.
- The power station closed in 1981. The southern third of the building was retained as an electrical substation.
- Opened 2000.





Reuse over the Site Lifecycle

- Pre-Nuclear Phase
 - Reuse of buildings from the pre-nuclear phase for nuclear uses is unlikely to happen in the modern era, more common on the early sites
- Operational Nuclear Phase
 - Reuse of buildings is limited because few buildings become redundant during the growth of the site
- Decommissioning Phase
 - Priorities during decommissioning are:
 - Maintenance of safety
 - Hazard reduction
 - Release of Resources
 - Equipment, scrap value for materials, recycling
 - Reuse of buildings
 - Site Clearance
 - Demolitions, land remediation and clearance
 - Reuse of buildings
 - Delicensing
- Post-Nuclear Redevelopment Phase
 - Reuse of buildings which can be delicensed in-situ for post nuclear redevelopment uses

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- Nuclear new build may require ancillary facilities
- The reuse of nuclear facilities for nuclear uses may be easier than introducing nuclear uses in new areas
- · Reuse with contamination locked in-situ maximises benefits of radioactive decay
- Reuse with contamination locked in-situ provides care & maintenance income streams and helps prevent the facility degrading
- Nuclear facilities may have specialised or robust infrastructure useful for new uses
 - High quality electricity supply connections
 - Office space.
 - Well established utility supplies (e.g. cooling water systems, steam supply, demineralised water supply etc.)
 - Well developed security systems (cameras, fencing etc.)
 - Well established underground features, e.g. vaults, tanks, pits, water supply systems, fire protection systems, sewage systems, and other waste retention systems.
 - Support services (e.g. catering, public transport).
 - A local workforce with a high level of technical skill.





