



Brochure

Asset closure

Safe and cost effective management through the complete lifecycle

Asset closure

Close or mothball assets safely and with no disruption to ongoing operations.

Ensure that beneficial options are not ruled out, or made unviable, by costly omissions early on in the process.

Don't miss out on windows of opportunity to recover value from redundant equipment.

ABB Consulting provides technical and engineering services to improve performance in the areas of compliance, operations and engineering to customers in the chemical, petrochemical, oil & gas, power, pharmaceuticals, metals and consumer industries worldwide.

Asset closure, mothballing, demolition and land remediation

Having to consider closing manufacturing assets, due to their competitive position, is a reality of the current economy. During this process a range of outcomes, from business turnaround to shutting a whole site and selling off the land, must be considered. Other options include mothballing (for restart, sale or delay) and a range of scales of demolition (part or all of a site and to ground level or below).

The management of redundant equipment in ongoing operations is also important. Unmanaged equipment can be a safety risk, or a risk to operations, but on the positive side it could be sold and can free up space for further development.

The correct choice is not always clear and can be a complex decision dependant on rapidly changing circumstances - e.g. product markets, redundant equipment value, material prices impacting scrap, legislation. Reliable information is an important element in making sure that the right choices are made.

Capabilities

ABB has a vast range of experience of assessing the various options and then planning and executing these projects. We also offer manufacturing improvement services to help business turnaround.

We offer help in the following areas:

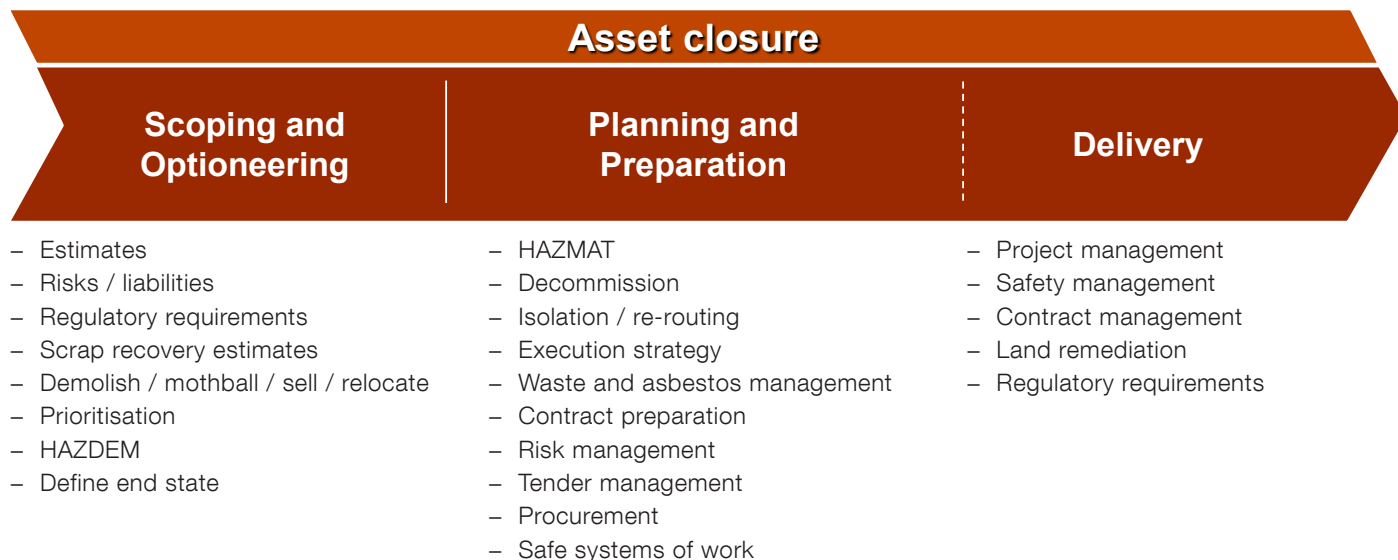
- Providing information and support during option generation and analysis - we help in understanding and quantifying the potential costs, timescales, risks and implications of various options from mothballing to full site demolition and remediation
- Enabling work - we specify and manage the decommissioning and isolation works including design, required prior to shutting down. We also develop programme strategies, plans and estimates and manage legislative and permitting issues
- Mothballing support - we run studies to optimise the scope of mothballing, based on the intended final use of the assets (demolish, sell, lift and shift etc.) and can implement the actions required
- Demolition management - safely and cost effectively managing the complete process from preparation to final site closures, for single projects or a long term programme of works
- Land remediation - we help to select the most appropriate remediation method and manage the full remediation process

ABB's capabilities can be applied to a broad range of asset closure projects:

- Full or partial demolition
- Programmes of minor dismantling packages
- Mothballing
- Decommissioning on and offshore
- Land remediation
- Asset relocation
- Managing redundant equipment / process units

Our experience

Through many years of managing closures of high hazard process industry assets ABB has built up an in depth knowledge of the demolition industry best practices and key players. Our operational heritage ensures we bring an independent approach and implement projects in a pragmatic way to minimise the impact on existing operations and maintain safety performance. We have a great breadth and depth of functional engineering, design and project management and can integrate all of these skills to offer a total solution. We also bring maintenance and integrity expertise to support mothballing.



ABB's approach has been developed to ensure a focus on agreeing and delivering the project objectives. Typically 3 key areas are always project aims:

Safe execution

Safety is the top priority in all projects. From initial risk assessments, to job risk assessments to safety briefings. Our approach centres on managing all aspects of a project safely - that is what delivers our award winning safety performance.

Maximising value

Deploying the most cost effective techniques, maximising resale and scrap values, early planning to avoid costly corrections. These are all key parts of our approach that deliver maximum value.

Managing to budget and schedule

Having agreed optimum budgets and timescales our project management and project control approaches focus on delivering on time and on cost.

Benefits

- World Class standards of safety
- Cost effective approaches based on getting the thinking right early on
- Beneficial options not lost through costly oversights
- Minimal impact on other site operations and low risks
- Valuable process expertise and knowledge is maximised
- Flexibility built in to take advantage of market opportunities
- Asset values are maximised

“The approach I saw being taken by ABB to dealing with health and safety issues in demolition and remediation was impressive. Not only was the site a first class example of safe demolition, it was also clear that the work was being done more efficiently because of the way it had been organised”

Judith Hackitt, Chair of Health and Safety Executive (HSE)



Asset closure services:

- Optioneering
- Data archiving
- Demolition management
- Decommissioning management
- Environmental permit management
- Land remediation
- Mothballing studies and sustenance actions
- Programme management
- Project management and control
- Work package prioritisation and planning
- Asset relocation
- Managing redundant equipment

Other ABB capabilities include:

- Inspection
- Integrity management
- Land management services
- Operations improvement
- Process safety
- Project services
- Technical engineering
- Technical software
- Technical training and competency

For further information please contact:

ABB Consulting

Daresbury Park
Daresbury
Warrington
Cheshire
WA4 4BT
United Kingdom
Phone: +44 (0)1925 741111
Fax: +44 (0)1925 741212
E-Mail: contact@gb.abb.com

www.abb.com/consulting

ABB Consulting provides technical and engineering services to improve performance in the areas of compliance, operations and engineering to customers in the chemical, petrochemical, oil & gas, power, pharmaceuticals, metals and consumer industries worldwide.