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# Decommissioning & Demolition Forum

Date: 8-9 March 2023, Venue: Berlin, Germany



For more details

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## Industry Description

This conference is focusing on what we call heavy industrial or high hazard industries – Industrial, Chemical, Petrochemical, Power and Oil & Gas.

**What are fossil fuel power plants?** Fossil fuel fired power plants are plants that use fossil fuels (e.g. coal, gas, oil) to produce electricity.

They are also referred to as 'conventional power plants'. E.g. coal plant, lignite fired plant, gas plant, oil fired plant, (non-nuclear) thermal plant. We are not focusing on the decommissioning of nuclear plants, neither on the decommissioning of renewable plants (e.g. solar and wind power). That means that a power generation company which is focusing only on renewables (e.g. EDP Renewables/EDP Renováveis), is not relevant for this forum.

A **chemical plant** is an industrial process plant that manufactures (or otherwise processes) chemicals, usually on a large scale. The general objective of a chemical plant is to create new material wealth via the chemical or biological transformation and or separation of materials.

A **petrochemical plant** is a plant using chemicals from petroleum as a raw material, converting natural resources such as crude oil, natural gas, ores and minerals into products for a wide range of applications.

An **oil refinery** is an industrial plant that refines crude oil into petroleum products such as diesel, gasoline and heating oils. In the industry, the refining process is commonly called the "downstream" sector.

## What is decommissioning and demolition?

The process of breaking down a plant can be divided into two main parts: **decommissioning and demolition**. **Decommissioning** concerns the planning and preparation phases and **demolition** concerns the actual taking down of the plant and the environmental remediation. The process as a whole is very costly and time consuming. Operators often hire a contractor for the demolition of a plant. What to take into consideration when selecting a contractor? What should be included in the tender document? As decommissioning is not business as usual for certain industries, it is difficult for them to know what to pay attention to when selecting a contractor.

Not all decommissioned assets are necessarily being demolished. In a lot of cases it is more cost-effective to repurpose the former power plant. Putting it simply, repurposing is a process of changing the asset into something else without completely destroying it (the façade of the building mostly stays untouched). This process involves certain steps, including decontamination, waste management and elaborate financial planning. Former fossil-fueled power plants can get a second life as apartment buildings, shopping centers and even as a solar and battery storage (repurposing conventional plants into renewables has especially high potential for economic benefits in developing countries)

## Why this Conference and Why Now

European energy companies have been actively phasing out their fossil-fuelled assets in last several years. Thermal generation in general is in decline due to both market drivers (increasingly cheap and fast-growing renewables pushing fossil fuels off the grid (e.g. solar and wind power) and environmental regulations.

According to a new European Environment Agency (EEA) report, decommissioning fossil fuel power plants between now and 2030 is essential if Europe wants to hit its 2050 targets set by the Paris Agreement. The most recent EU regulation on emissions control, LCP BREF, was adopted on April 2017. Requirement in the revised standards will apply to all of the EU's almost 3,000 Large Combustion Plants, irrespective of what type of fuels they burn. EU-wide compliance with the new rules could cost as much as 15,4 bn Euros, and 82% of coal capacity expected to be online in 2021 is currently failing to meet the minimum standards. The European governments and energy companies will have until 2021 to comply with BREF, meaning that they need to start making investment decisions and long-term planning now.

9.00 Chairman Opening Word

KEYNOTE ADDRESS

**9.10** Optimizing costs and boosting profitability before, during and after decommissioning

- An examination of budget planning: Why is it vital to have a financial reserve?
- A focus on challenges and prospects for the reuse of cement
- Recycling and circular economy as a basis for profitable decommissioning and demolition
- Ensuring profitability by reusing the facilities
- Red flags: How not to turn the decommissioning process into an expensive failure
- Prospects for selling the site: What needs to be considered?

**Kurt VAN STAPPEN**  
Senior Project Manager  
Demolition - Cities &  
territories



**9.50** Cutting-edge digital decommissioning technologies

- Driving down costs through efficient cost assessment techniques
- A focus on extended reality and interactive 3D digital models
- Facilitation of training processes through incorporation of innovative technologies
- The importance of precise estimation of contamination amounts
- Excellence in smart data management systems
- Successful incorporation of digital decommissioning technologies to optimize, facilitate, and simplify the decommissioning process

**Jeffrey Battaglia**  
Director – Clean  
Energy Project  
Development



**10.30** Coffee break and Networking

**11.10** Developments and possibilities with regards to asbestos roofing for instance

- *Circular demolition and building,*
- *the EU Green Deal,*
- *the latest scientific insights,*
- *saving CO2, denaturation and extraction of valuable resources,*

**Yvonne Waterman**  
Specialist asbestos  
liability law



**11.50** heavy industrial or high hazard industries – Industrial, Chemical, Petrochemical, Power and Oil & Gas

- *Decision making during the decommissioning and management of complex sites,*
- *essentially how to deal with uncertainty.*

**Dr. Andrew L Smith**  
C.Eng., C.Petroleum  
Engineer, FSRP



**12.30 LUNCH**

*We aim to deliver our BizLunch in a friendly, relaxed and enjoyable manner that is open to all speakers and participants The demographics of each event change constantly and this helps maintain the gathering as a fresh and lively affair*

13.30	<p><b>Denaturing asbestos – the challenges of innovation</b></p> <ul style="list-style-type: none"> <li>• <i>How asbestos can be diverted away from landfill</i></li> <li>• <i>Details of a circular economy approach to denaturing asbestos that is up and running in the UK</i></li> <li>• <i>The challenges of getting innovation widely adopted</i></li> </ul>	<p><b>Graham Gould</b> Director</p>  <p><small>Diverting Asbestos Away From Landfill</small></p>
14.10	<p><b>Safety and sustainable D&amp;D: Application of new technologies</b></p> <ul style="list-style-type: none"> <li>• Best-practice D&amp;D Coal Power Plants</li> <li>• Safety Culture. A real challenge for us. Anllares and La Robla Projects</li> <li>• Case Study La Robla: Demolition of the Office building and works with a lift-platform-torch to separate the boiler from the turbine building</li> </ul>	<p><b>Zhafran Sulaiman</b> Head Decommissioning &amp; Abandonment</p> 
14.50	<p><b>Coffee break and Networking</b></p>	
15.30	<p><b>Best-practice in asbestos removal and decontamination</b></p> <ul style="list-style-type: none"> <li>• A focus on re-organization of asbestos decontamination procedures</li> <li>• Examining the benefits of asbestos denaturation</li> <li>• Potential for asbestos reuse and recycling as a part of the circular economy</li> <li>• An examination of innovative methods for asbestos removal</li> <li>• Minimizing asbestos exposure – from theory to practice</li> </ul>	<p><b>Timo Vuorinen</b> Senior Project Manager</p> 
16.10	<p><b>A scrutiny of effective waste management strategies</b></p> <ul style="list-style-type: none"> <li>• Best-practice in post-decommissioning plant management: The importance of identifying the scope of waste A focus on increasing waste management regulation within and outside the EU</li> <li>• Ensuring a correct balance between compliance to legislation and profitability</li> <li>• Challenges and prospects for making waste management more transparent</li> <li>• Do not let the waste go to waste: Reusing, recycling, and re-utilization of materials and used equipment</li> </ul>	<p><b>Katrin Hertkorn-Kiefer</b> Decommissioning/ Dismantling</p> 
16.50	<p><b>PANEL DISCUSSION</b></p> <p><b>How can we optimize decommissioning processes through the incorporation of AI and robotics? What are the major challenges and how can they be overcome?</b></p>	
17.10	<p><b>End of Day One - Closing word from the Chairman</b></p>	

9.00 Chairman Opening Word

KEYNOTE ADDRESS

9.10	<p><b>Power Plant Decommissioning &amp; Demolition Management Process.</b></p> <ul style="list-style-type: none"> <li>• Construction (Design &amp; Management) Regulations</li> <li>• Planning Phase</li> <li>• Decommissioning Phase</li> <li>• Project Implementation Phase</li> <li>• Project Execution Phase</li> <li>• Project Demolition Phase</li> </ul>	<p><b>Srinivas Ramulu</b> Project Manager</p> 
9.50	<p><b>Examining the relationship between the contractor and the asset owner</b></p> <ul style="list-style-type: none"> <li>• The importance of cooperation for efficient process management</li> <li>• Analyzing key aspects of the preparation phase and pre-decommissioning analysis</li> <li>• Best-practice in cost-estimation and budget planning</li> <li>• Successful plan negotiation and reaching an agreement with the contractor</li> </ul>	<p><b>Michael Richter</b> Senior Engineer</p> 
10.30	<p><b>Coffee break and Networking</b></p>	
11.10	<p><b>A Costa Corrada Case Demolition</b></p> <ul style="list-style-type: none"> <li>• A scrutiny of major challenges and a roadmap to their potential solutions</li> <li>• What are the main difficulties faced during the decontamination phase?</li> <li>• A focus on innovative technologies for process optimization</li> <li>• The importance of meeting deadlines while maintaining safe working conditions</li> <li>• Lessons learned: What are the major takeaways from X's decommissioning and demolition?</li> </ul> <div style="display: flex; justify-content: space-between;"> <div data-bbox="199 1344 502 1512"> <p><b>Michele Peroni</b> Technical Production Director</p>  </div> <div data-bbox="526 1344 821 1512"> <p><b>Valerio Mulas</b> Managing Director</p>  <p>PIOMBINO INDUSTRIE MARITTIME</p> </div> </div>	<p><b>Marco Falconi</b> Contaminated sites expert and Researcher Soil Protection Department</p> 
11.50	<p><b>Decommissioning journey of NAM</b></p> <ul style="list-style-type: none"> <li>• Contracting strategy for decommissioning a large portfolio of assets</li> <li>• Contractor selection</li> <li>• Execution of abandonment</li> </ul>	

**12.30 LUNCH**

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<p><b>13.30</b></p>	<p><b>An all-encompassing examination of the decommissioning and demolition of a power plant</b></p> <ul style="list-style-type: none"> <li>• A scrutiny of major challenges and a roadmap to their potential solutions</li> <li>• What are the main difficulties faced during the decontamination phase?</li> <li>• A focus on innovative technologies for process optimization</li> <li>• The importance of meeting deadlines while maintaining safe working conditions</li> <li>• Lessons learned: What are the major takeaways from X's decommissioning and demolition?</li> </ul>	<p><b>Andreas Knutsson</b> Specialist, Radwaste &amp; Decommissioning</p> 
<p><b>14.10</b></p>	<p>TBA</p> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>	 <p>eni rewind remediation &amp; waste into development</p>
<p><b>14.50</b></p>	<p><b>Coffee break and Networking</b></p>	
<p><b>15.30</b></p>	<p><b>Walking into the sunset – The last farewell of two Portuguese giants</b></p> <ul style="list-style-type: none"> <li>• <i>Introduction – EDP and EDP Produção</i></li> <li>• <i>The Plants</i></li> <li>• <i>The road so far</i></li> <li>• <i>The challenges ahead</i></li> </ul>	<p><b>Bruno Travassos</b> Head of Decommissioning, Iberian Generation Platform</p> 
<p><b>16.10</b></p>	<p><b>CLOSING PANEL DISCUSSION</b></p> <p><b>Sustainability and circular economy: The future of decommissioning and demolition</b></p> <ul style="list-style-type: none"> <li>• An assessment of the current situation: How sustainable are we at the moment and what are we moving towards? Effective strategies for improving recycling procedures</li> <li>• Ensuring compliance with waste management guidelines</li> <li>• Circularity as a new standard for handling materials: How can it be achieved? What are the main challenges? Ensuring water, soil, and air pollution prevention while handling older hazardous materials</li> <li>• Next steps in recycling and reuse of materials after demolition</li> </ul>	<p><b>Marco Falconi</b> <b>Srinivas Ramulu</b> Contaminated sites expert and Researcher Soil Protection Department Project Manager</p>  
<p><b>16.50</b></p>	<p><b>Closing remarks from the Chairman, close of conference &amp; final networking opportunity</b></p>	

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