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## THE ELECTRICITY STORAGE **NETWORK**<sup>TM</sup>

# WHAT CAN POSSIBLY GO WRONG?

## A SEMINAR ON BATTERY SAFETY AND OPERATIONAL ISSUES



Time	Speaker / Organisation	Topic
From 09:00		<b>Registration and refreshments</b>
09:30 – 09:45	Anthony Price	<b>An introduction to energy storage development in the UK</b> <ul style="list-style-type: none"><li>- Overview</li><li>- The legislative and regulatory landscape</li></ul>
09:45 – 10:00	Ken McKinley AES Energy Storage	<b>Quality, credibility, flexibility and longevity for energy storage</b> <ul style="list-style-type: none"><li>- Lessons from a decade of safe battery energy storage experience</li></ul>
10:00 – 10:15	Will Broad BEIS	<ul style="list-style-type: none"><li>- The role of governmental collaboration with industry on energy storage</li></ul>
10:15 – 10:35	BEIS	<b>After it's all over</b> <ul style="list-style-type: none"><li>- The Batteries Directives and other end of life issues</li></ul>
10:35 – 10:50	Discussions and questions	
10:50 – 11:15		<b>Refreshment break</b>
11:15 - 11:30	Rosemary Whitbread HSL	<b>Confidence in energy storage</b> <ul style="list-style-type: none"><li>- The enabling principles of UK health and safety legislation</li><li>- Using sound health and safety credentials to underpin crucial public, investor and wider industrial/commercial confidence</li><li>- Introducing the UK health and safety regulatory framework</li><li>- Protection for worker and public safety</li><li>- Controlling the risks of unlikely, but potentially catastrophic major incidents</li></ul>

11:30 – 12:15	Jonathan Buston HSL	<b>Fire, and how to damage a battery in other ways</b> - How batteries fail and the potential consequences - The HSL's experimental programme  The talk will include videos and images of testing and will be based on experience with secondary lithium ion batteries. References will be made to other secondary battery types, including flow batteries  The talk will address issues relating to domestic, mid-size and large scale installations
12:15 - 12:30	Andy Passingham Olssen Fire	<b>Fire management</b> - Fire regulations - Using computer tools to understand the impact of fire
12:30 – 12:45	Discussion and questions	
12:45 – 13:45		<b>Lunch</b>
13:45 – 14:00	Jez Kent Swanbarton	<b>Under lock and key?</b> - How to provide cyber security for energy storage projects
14:00 – 14:30	Aazzum Yassir S&C	<b>The whole system</b> - Layout, electrical safety and protection, containerised and buildings, maintenance, upgrades and decommissioning
14:30 – 14:45	Jason McGray TNEI	<b>Asking permission</b> - Best practice in planning and consents inc COSSH / COMAH / EIA
14:45 – 15:00	Tom Digby-Rogers BSI	Achieving excellence - The role of British and international standards
15:00 – 15:45	Q&A break away sessions	<ul style="list-style-type: none"> <li>Protecting workers – health &amp; safety in installation, operation and maintenance etc.</li> <li>Protecting the public – mitigating the potential consequences of an incident (location, planning, emergency response etc.)</li> <li>What are the implications for the electricity storage industry</li> </ul>
15:45 – 16:00	Plenary discussion and summing up	
16:00 – 16:15	Session chairman	<b>Promoting best practice</b>
16:30		<b>Close and final refreshments</b>

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