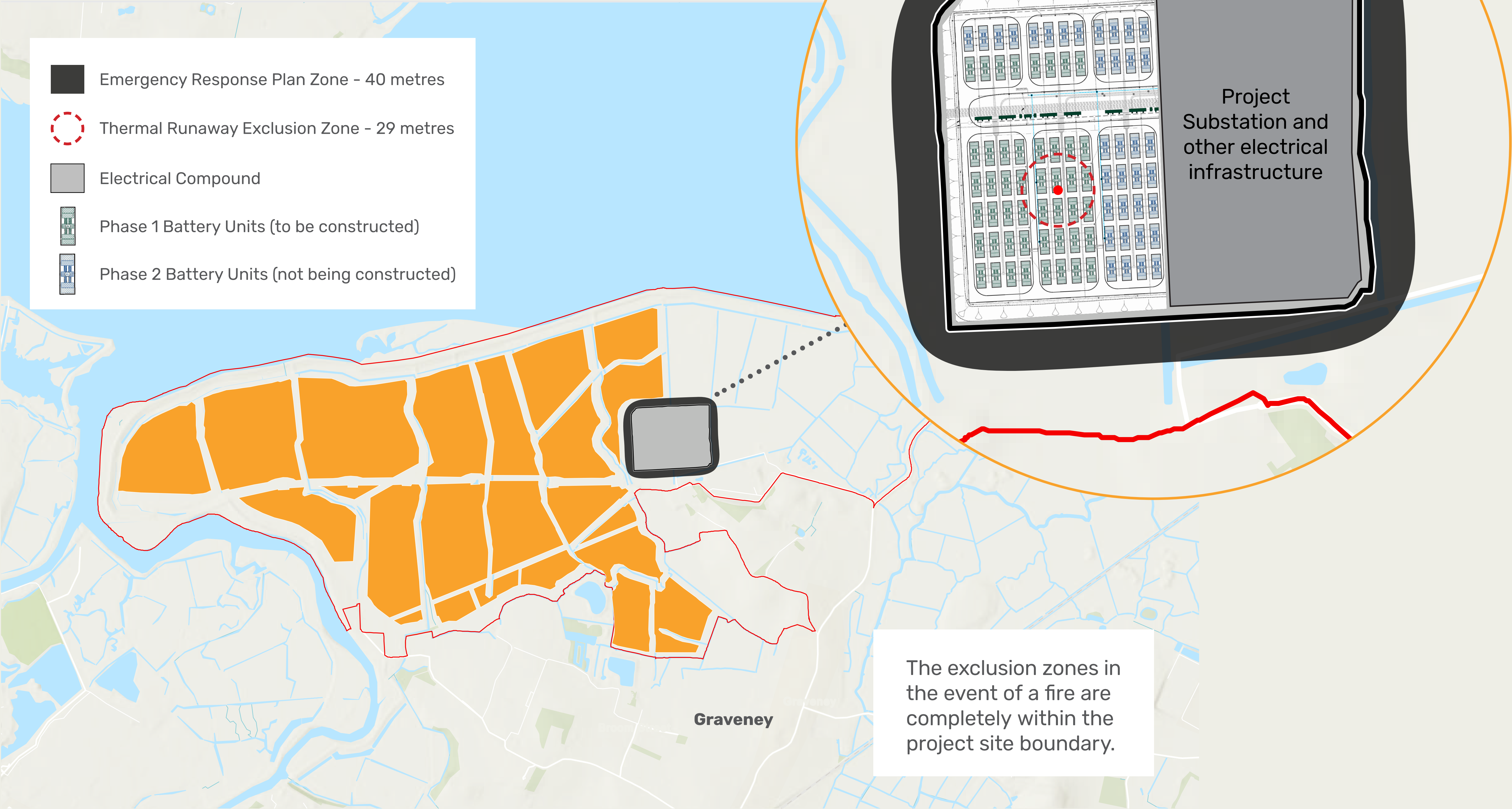
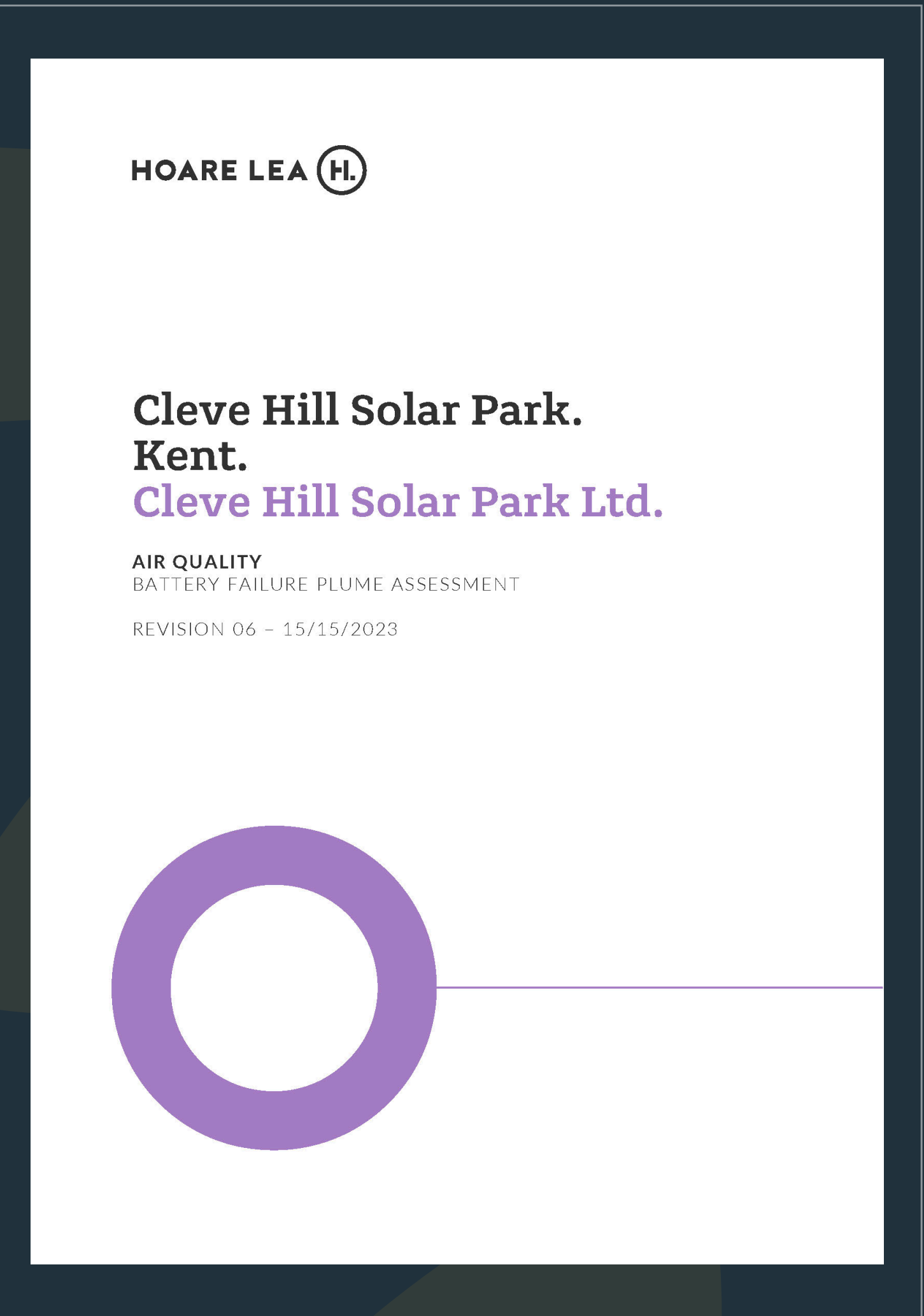
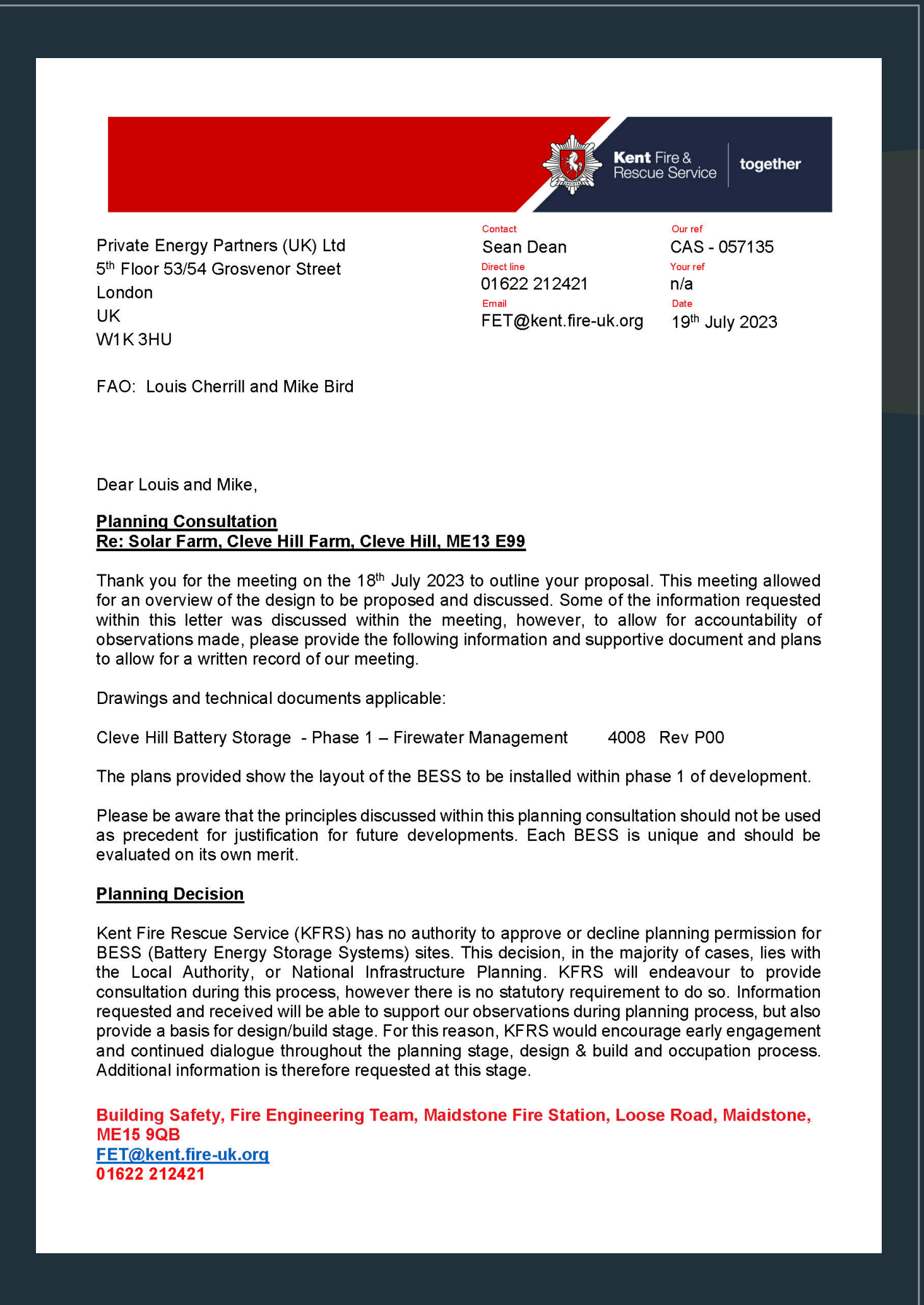
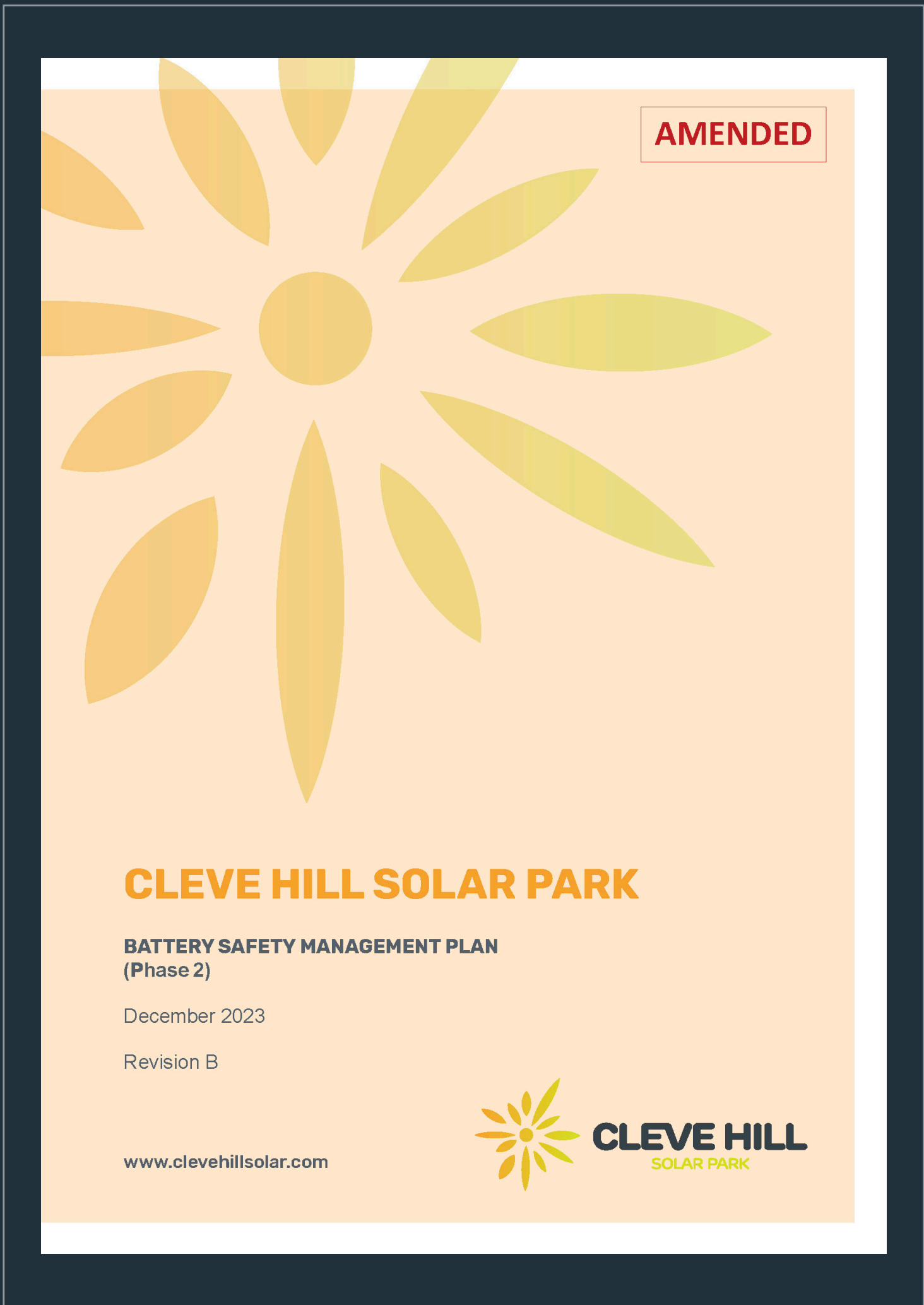


Fire Safety Exclusion Zones.



Approved Documents to view and take away.



You can view and take away copies of these materials here.

Construction Emergency Response Team.

What is the CERT?

Committed by Cleve Hill Solar Park Ltd within the Battery Management System, The Construction Emergency Response Team or CERT is a team of key senior team members from each of the Project's appointed contractors and technology specialist.

The CERT is fundamental to ensuring the safety of all contractors, sub-contractors and the public during the installation of the batteries and associated equipment.

Key Updates

- » The CERT was officially formed in full in April 2025 following final contract awards, and have regular meetings in accordance with the BSMP. The CERT are completing the development's construction emergency response plan which shall be shared with the key stakeholders prior to the first deliveries of the batteries.
- » The CERT has overseen the finalisation of the Firewater provisions and hydrant network design and now installation, which is expected to be completed and fully operational before June 2025.
- » Continual engagement with Kent Fire and Rescue has been maintained through the process and are actively engaged with the CERT on various technical and safety matters.

Construction Emergency Response Team.

The CERT's Responsibilities

1. Completing the development's Construction Emergency Response Plan, including but not limited to:
 - » Review and further develop the responsibility matrix (RACI) for decision making and protocols for incident response – shared across the facility and response teams.
 - » Review the Energy Management System, Battery Management System and Fire alert / alarm systems and further detail the functions, capabilities and control hierarchy.
 - » Review and further detail the Standard Operating Procedures (SOPS) with specific emphasis on safe shutdown and isolation procedures, emergency response procedures and decommissioning procedures. Review and further detail the development's system monitoring data analytics for real time support in an emergency event.
2. Liaising with the local emergency services and making them aware of the detailed project programme, identify key milestones such as the battery delivery dates, installation commencement, commissioning commencement and any other periods of construction which may pose a higher risk of fire hazards being present.
3. Maintaining regular meetings and periodic reviews of the construction progress ensuring fire safety is maintained.
4. Provide continual updates to the local emergency services and notify them of any changes to key construction milestones, new hazards, or changes to the Emergency Response Plan.
5. Perform real life scenario-based testing to evaluate the effectiveness of the Emergency Response Plan.
6. Ensure the recommendation of the air quality assessment as summarised in section 8.3 and 8.4 of the BSMP are enforced.
7. Ensure the protocols, guidelines, and standards of the BSMP are followed.

Get to know the Construction Emergency Response Team.



Cleve Hill

Cleve Hill Solar Park Limited is a private limited company that is building the large-scale solar and energy storage project.

The project, owned by Quinbrook Infrastructure Partners, will generate renewable power through photovoltaic panels.



Stantec

Stantec is a global design and consulting firm specializing in sustainable engineering, architecture, and environmental consulting. Stantec are appointed as the Project's Principal Designers.



Gallagher

The Gallagher Group is a family-owned construction company, primarily based in the southeast of England, with roots in civil engineering and groundworks. Gallagher are the appointed specialist Civils Contractor and active Principals Contractor for the Project.



DUNAMIS

Dunamis are an Independent Connections Provider specialising in the design and build of HV infrastructure, part of the Fulcrum group. Dunamis are the project's appointed specialist electrical contractor. Dunamis shall also take over the role as Principal Contractor following the completion of the civils works phase.



CATL

CATL is a global leader of new energy innovative technologies, committed to providing premier solutions and services for new energy applications worldwide and are top of the Bloomberg Tier 1 BESS suppliers. CATL are the selected specialist technology provider of the Battery Systems for the project.



ALTENSO

SMA Altenso GmbH is a specialist division of Power Conversion System manufacturer SMA AG GmbH focusing on PV-Hybrid, off-grid, battery and hydrogen project. SMA Altenso are the project's appointed specialist Power Conversion System suppliers and system integrator.



MAMMOET

Mammoet is a specialist lifting and transportation contractor with over 200 years' experience in complex and large-scale projects. Mammoet has been appointed to manage and undertake the transportation and lifting of the battery equipment across the project.



HABITAT

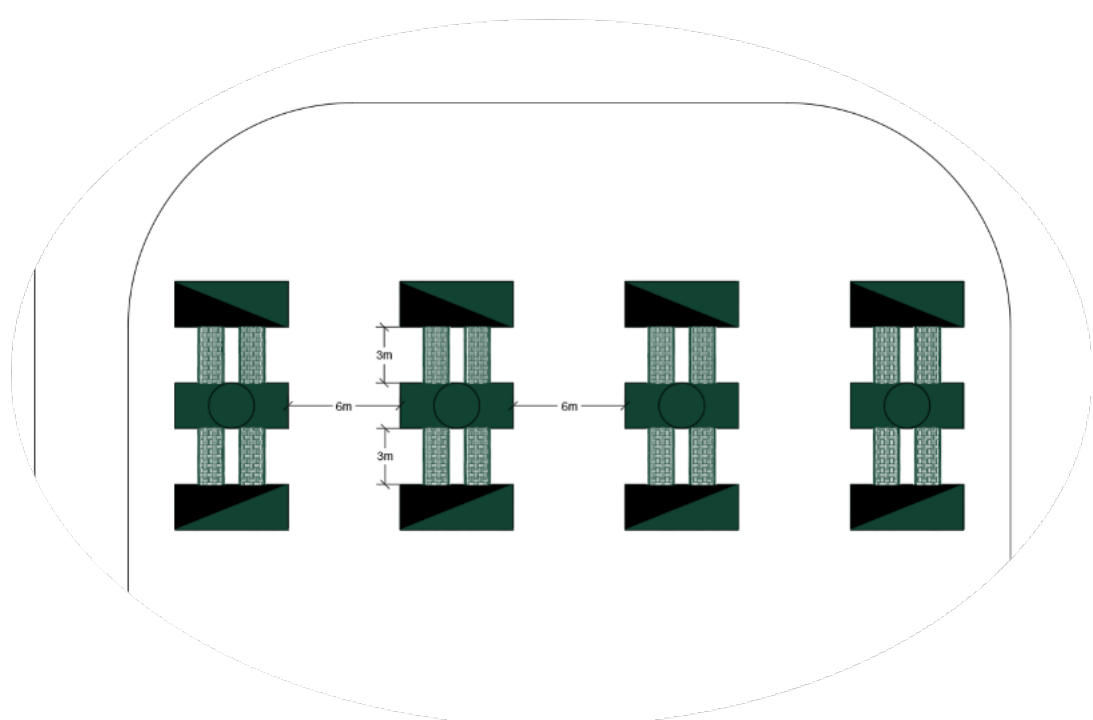
Habitat Energy is the leading UK company that specialises in optimising and trading battery storage and renewable energy assets.

Habitat Energy has been appointed to operate the battery systems once commissioned.

BATTERY SAFETY MANAGEMENT PLAN

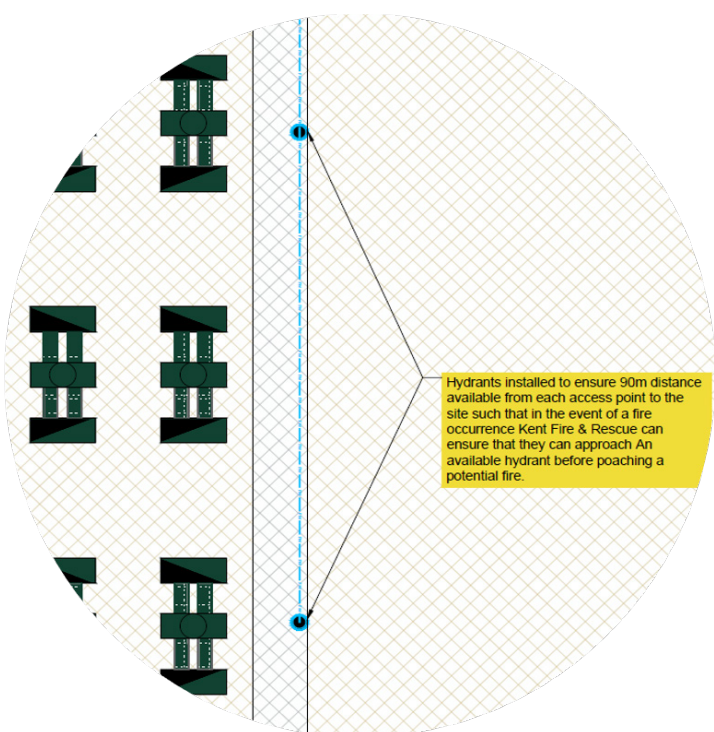
Key Site Elements.

Spacing

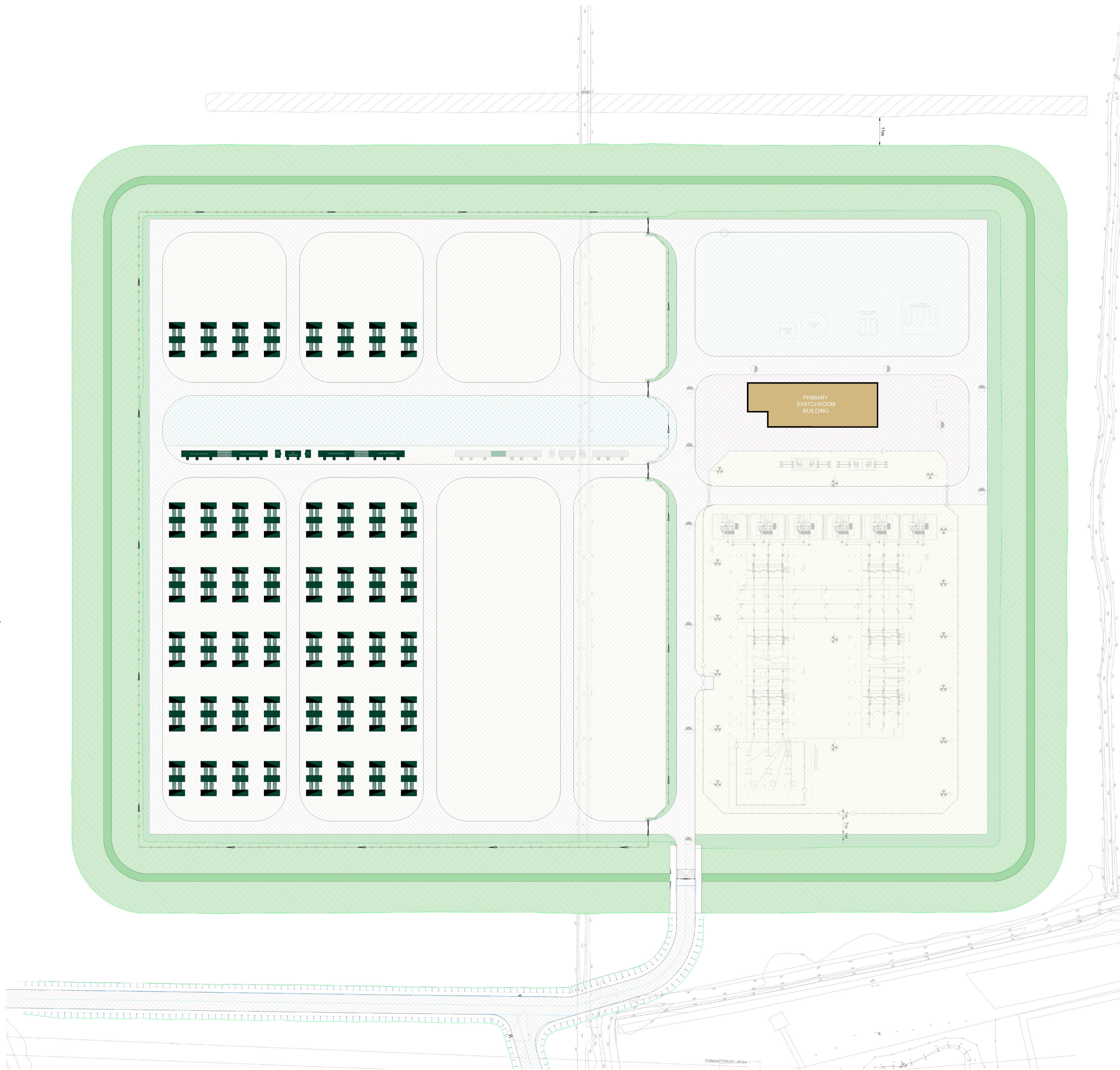


- 3m Spacing between PCS & BESS Blocks
- 6m Spacing between Power Blocks
- 6m+ Spacing between BESS Secondary infrastructure
- 20m+ Spacing between other buildings & equipment

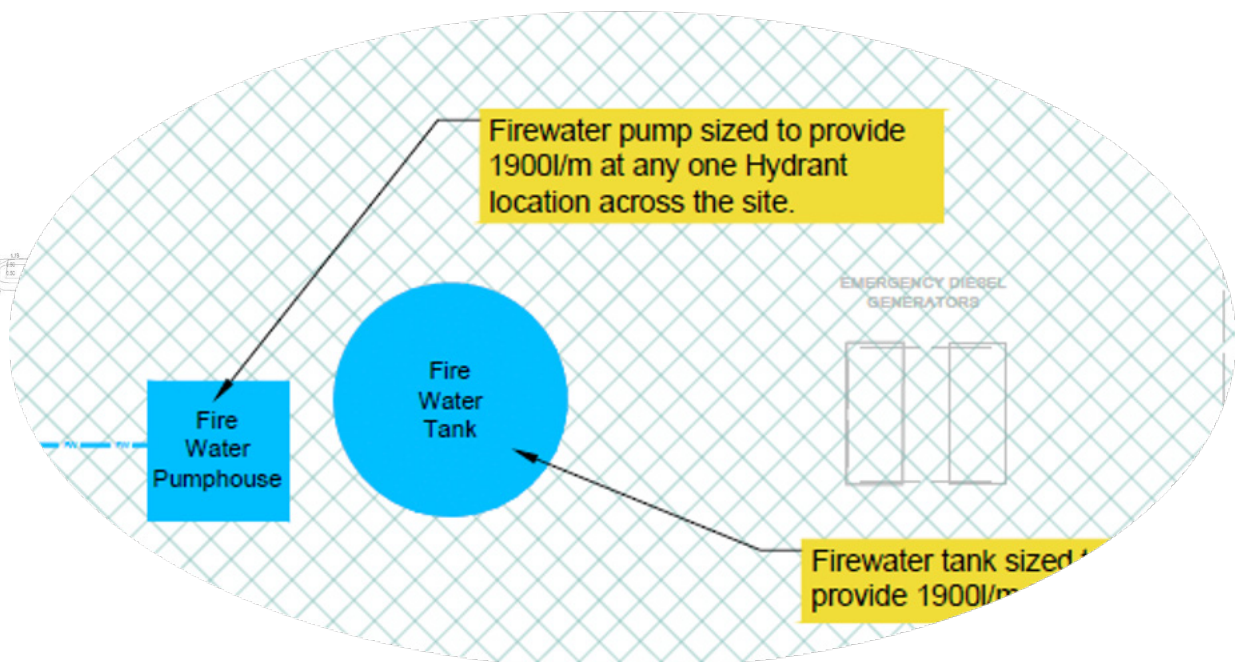
Fixed Hydrant Network



Commissioned and Operational prior to the **first battery deliveries**
Regular inspection and testing during construction

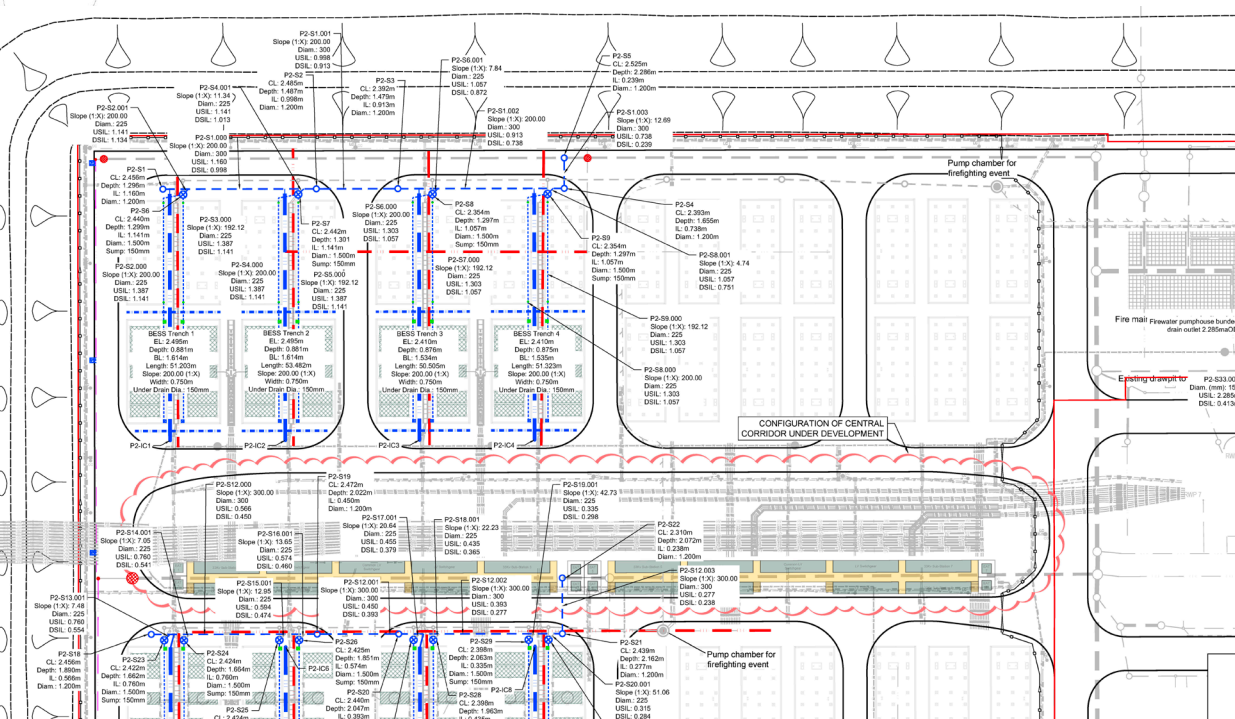


Onsite Water



250,000+ litres of onsite water storage
1900 l/m flow rate
Full redundancy N-1 pumping station.

Drainage



Independent firewater drainage system and onsite retention.

Technology.

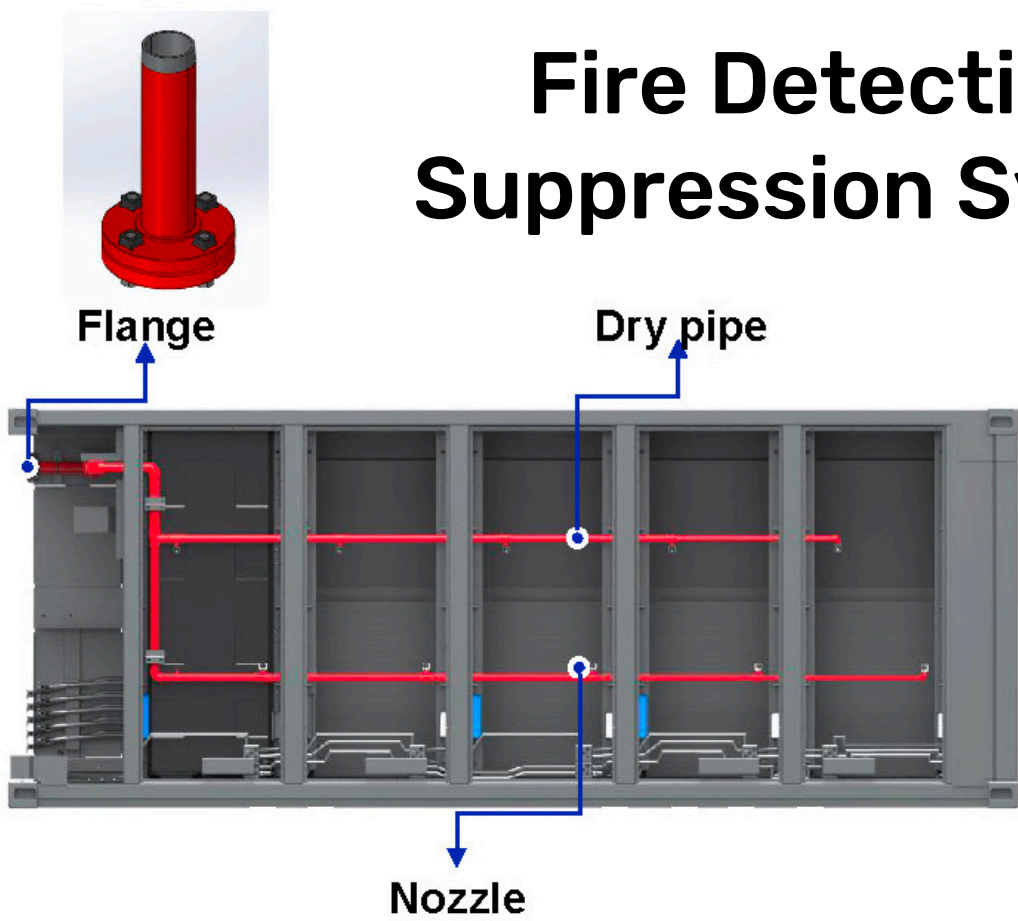
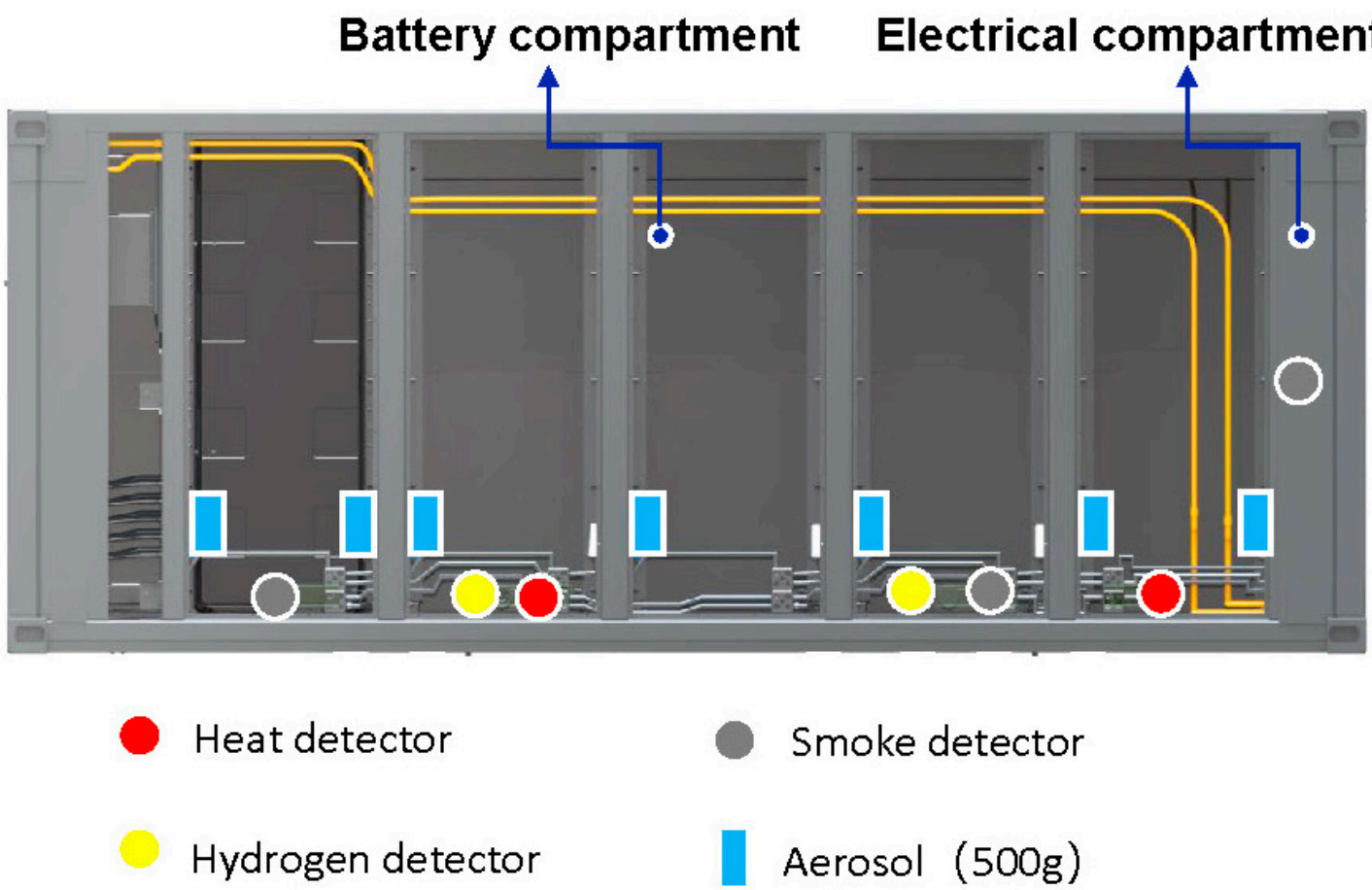


Thermal Management System Liquid Cooling

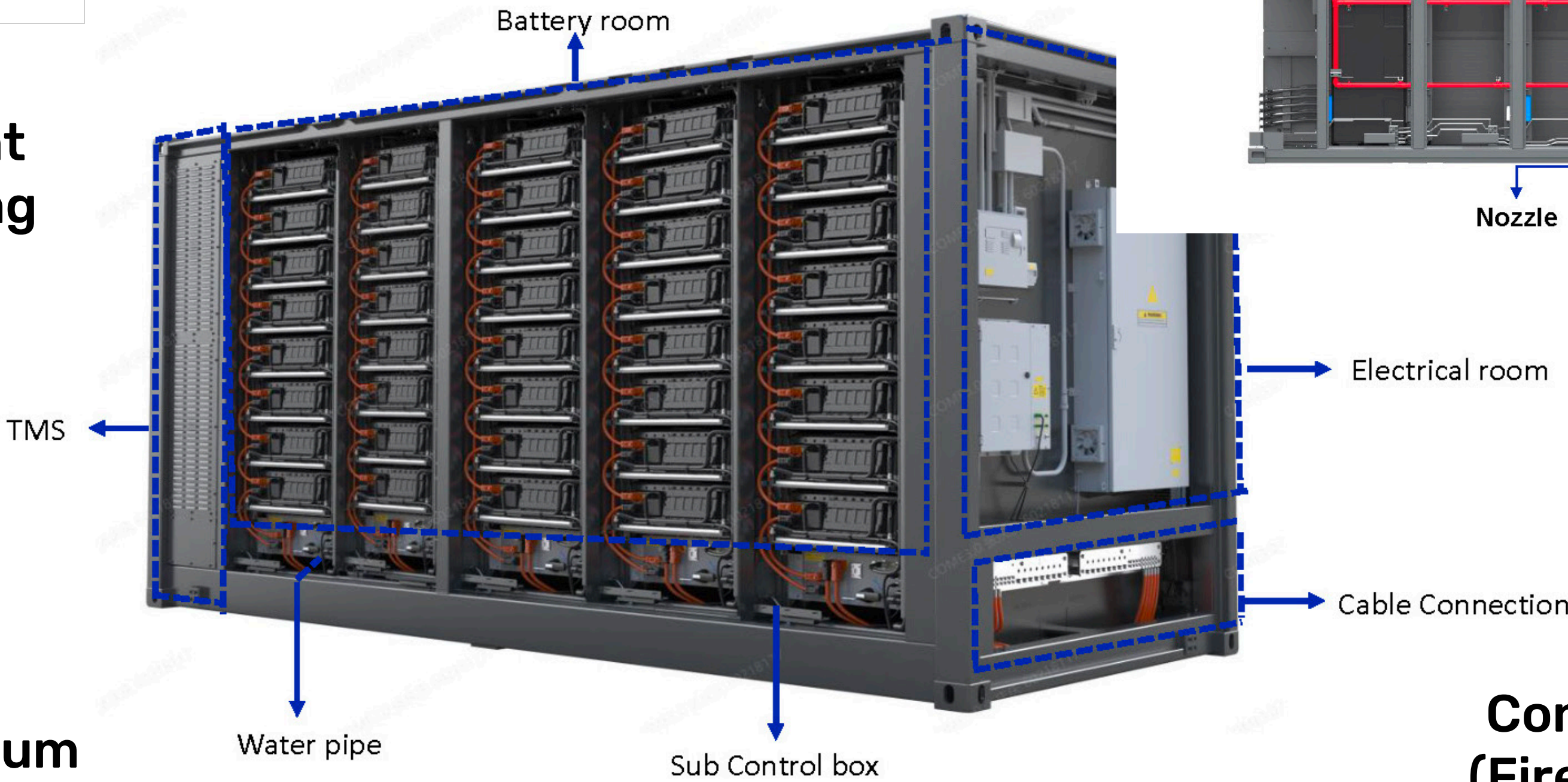
Battery Module Lithium Ferro Phosphate (LFP)



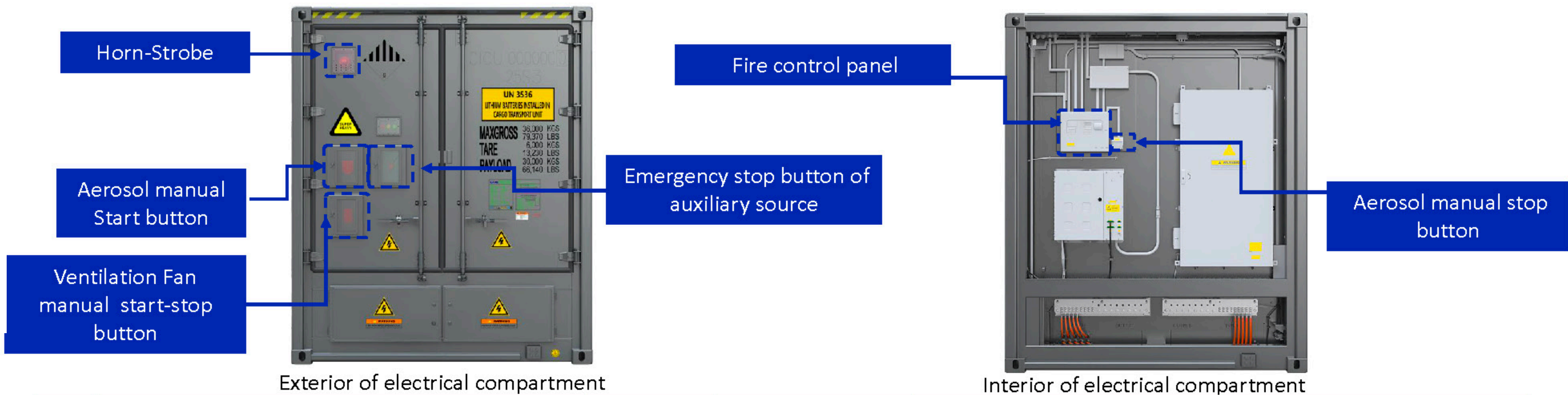
Fire Detection & Suppression Systems



Fire Detection & Suppression Systems



Controls Panels (Fire Alarm, BMS)



Item	Remark	
Manufacturer	CATL	
Cell Chemistry	Lithium Ferro Phosphate (LFP)	
Enclosure Dimensions (L x W x H)	6058mm (L) x 2438mm (W) x 2896mm (H)	
No. Modules / Block	40	
No. Racks / Block	5	
No. Modules / Rack	8	
Energy Capacity / Block	4.073 MWh +/-	
Voltage Range	1164.8~1497.6 VDC	
C-Rating	0.5	
Operational Ambient Temperature	-30°C up to +50°C	
Battery Management System	Included	
Auxiliary Power	Uo 230/400v	
Thermal Management System	Liquid Cooling	
Fire Detection System	Automatic (see	
Fire Suppression System	Automatic Aerosol Type	
Fire Fighting Equipment	Dry Pipe System	
IP Ratings	Battery Room	IP55
	Electrical Room	IP55
Compliance Standards	TMS	IP67
	Module	IP67
Compliance Standards	Cell & Module	UN38.3
		UL1973
		IEC62619
		UL9540A
	Container	UL1973
		NFPA855
		UL9540A
		IEC 62477
		IEC 62619
		IEC 62933-5-2
		IEC 63056
		IEC 61000-4/

Key measures laid out in Emergency Response Plan.

1 Roles and responsibilities

2 Preparation and planning for emergencies

Including battery technology and recognising abnormalities/failure; fire alarm and detection systems; fire hydrant system; muster points; notifying emergency services; chain of command; meeting point and grab bag for emergency services.

3 Medical Emergency Plan

4 Fire Incident Emergency Plan

5 Environmental Emergency Plan

6 Communications with Kent Fire and Rescue Service

Including regular updates; notification of any significant changes; site familiarisation; sharing ERP details and any revisions.

7 CATL Battery Specification

8 Safety & training

Including differences in behaviour of battery fires; fire detection systems – what to do if alarm sounds; who to notify.

Immediate Next Steps.

- 1 CERT finalisation of the Construction Emergency Response Plan in collaboration with key stakeholders.
- 2 Complete and commission fire water systems.
- 3 Arrange and perform the initial real life scenario-based testing to evaluate the effectiveness of the Emergency Response Plan.
- 4 Formal Appointment of the Operational Emergency Response Team