Fire and safety management

Safety first

The safety of our employees, contractors, environment and communities in which we operate takes precedence in all we do.

The current concept layout design and equipment selection implements high-level safety management, with future detailed design to address micro-level safety management. Furthermore, a suite of operational risk management processes will be prepared and must be approved by the relevant authorities, including Fire Rescue Victoria and Energy Safe Victoria.

In addition to first-class technical engineering designed to meet International Electrotechnical Commission (IEC) and Australian standards, all Pacific Green energy storage projects undergo rigorous safety and security testing to minimise safety risks.

The Portland Energy Park will come equipped with the latest Lithium battery technology incorporating several integrated fire safety measures. This will include both external monitoring and heat sensors as well as individual units within each battery container that are sealed and monitored with their own fire suppression systems. This means that if a single cell fails, this section of the battery is isolated and contained, thus protecting the rest of the container unit.

Fire risk and management plans must be approved by Fire Rescue Victoria (FRV) and Energy Safe Victoria (ESV). Both entities have already been engaged in discussions about the project.

To ensure the project meets all fire safety requirements, the following assessments have been undertaken:

- Landscape fire risk assessment
- Equipment selection comparisons
- Design standards assessment (including sufficient separations)
- Concept fire-fighting provision (static water supply and hydrants)

A Bushfire Management Plan will accompany the planning permit application. Further Risk and Safety Management protocols will be prepared and submitted to FRV for endorsement.

A Bushfire Management Plan (BMP) has also been specifically designed to over-see the Portland Energy Park operations. The site does not contain areas of significant vegetation and therefore has a low bushfire risk profile. The concept design addresses fire management requirements set out in the relevant CFA Guidelines. These design measures include sufficient spacing between containers, static water supply and hydrant provision and multiple emergency access points. Furthermore, civil earthworks and drainage concept design ensures that any run-off from the battery park earth benches will be captured in isolated ponds, that will filter sediment and control runoff.

About Pacific Green

At Pacific Green we specialise in delivering grid-scale smart energy storage solutions from greenfield to operation. We are proud of our record in delivering safe, cutting-edge energy storage solutions, which are benefiting people and the planet.

To learn more about the Portland Energy Park via our project website, scan this QR code: **www.pacificgreen.com/aus/projects/portland** or contact us at **portland@pacificgreen.com**