WBPS *is now* rehlko

Our *Modular Power* Solutions

24/7 Support **Strategically Located Technicians** **Optimised Spare Parts Availability** **Tailored Service Solutions**

Global *experts*. Local *precision*.

Leading to over 10GW of Data Centre power installed around the globe

Rehlko specialise in delivering robust critical power solutions for data centres across the globe, ensuring uninterrupted performance and resilience in high-demand environments.

Our services cover the full lifecycle of critical power infrastructure – from design and installation to preventative maintenance and emergency response. With deep expertise in UPS systems, generators, POD's, switchgear, and power distribution, supported by a global network of engineers, manufacturing and distribution centres, Rehlko guarantees rapid support and tailored solutions to meet the stringent uptime requirements of modern data centres.

From end-to-end. One *partner*. One *promise*.

1

We *Design*

Working with our highly talented and proactive in-house M&E design team to define a solution to your exact site requirements, Rehlko are able to offer complete flexibility of design, with package ratings from 500kVA to 4.5MVA. From package rating, space available on site through to the inclusion of client preferred equipment vendors, all can be fully supported by our highly adaptable design team.

2

We *Build*

With over 200,000sqm of production facility available, Rehlko maintain high levels of control over the full supply chain. With a dedicated e-POD production facility in the UK, sat alongside an accompanying fabrication facility, we can ensure our customers receive high levels of confidence, transparency and trust.

3

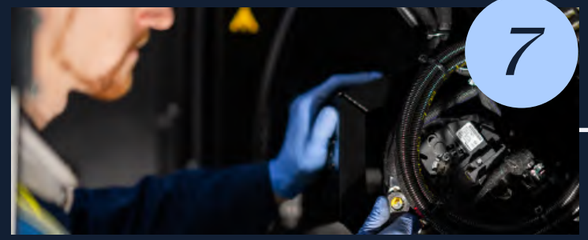
We *Test*

All equipment is fully tested prior to leaving our e-POD production facility in the UK. Each system is put through a rigorous pre-commissioning and FAT testing schedule (up to level 4) to ensure optimum performance. Not only this, our testing schedule can be fully tailored to meet specific requirements of the client.

4

We *Deliver*

Utilising our own in-house logistical fleet, we will deliver your equipment to pre-defined schedules, advising on site preparedness and keeping you informed, every step of the way.



7

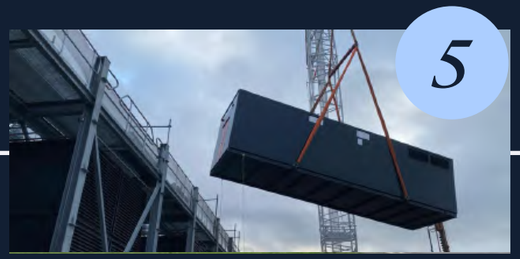
We *Maintain*

With over 200 field engineers across Europe, Rehlko is ideally positioned to deliver a full preventative maintenance programme, backed by a guaranteed four-hour emergency response. Our e-POD packages include a wide range of electrical equipment from trusted specialist partners, who also provide expert maintenance and emergency support.

6

We *Commission*

Our Commissioning team will work closely with the client and nominated specialists to agree and finalise the commissioning plan and program. Once the M&E installations have been completed, the Commissioning team set to work to commission and test all aspects of the installation. This culminates in a full site acceptance test (SAT) including rigorous load testing.



5

We *Install*

On project award, Rehlko will appoint a dedicated team to coordinate with all stakeholders through to completion. Once equipment is delivered to site, we will offload, position and configure all module interconnections (e.g. cable or busbar). The fire alarm and suppression system, designed to match the site-wide system, is then integrated with BMS outstations and the security system.

Wiltech Acoustics

Acoustic *innovation* for a better *tomorrow*

Over 120 dedicated staff

Over 7200 square metres of workshop floor space

Over 100 tonnes of cranage

Full turnkey acoustic solutions, designed to exact site requirements

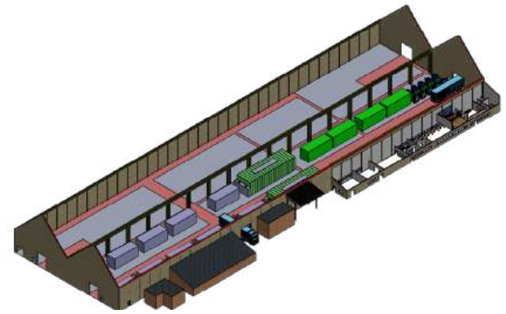
Our *acoustic* Engineering Facility

Acoustic innovation for a better tomorrow

The management of noise within the Power Generation Sector is a core business function at Wiltech Acoustics, a Rehlko company. For the power generation market, they can offer a wide range of packaged solutions, enclosures, access, ventilation and exhaust requirements no matter the mode or process of power.

Available as standalone products or as part of a full turnkey solution, Wiltech can provide:

- Acoustic Enclosures for Diesel & Gas Generators
- Exhaust & Vent Silencers
- Modular Power Enclosures
- Plant Room Noise Control Solutions
- UPS & Switchgear Housings



What makes our e-POD's different?

One of the only OEMs offering a true end-to-end, plug and play package

External package offers maximum room savings for white space

Greatly reduced lead times & on-site validation

Designed to exact site requirements

e-POD Product *Overview*

Scalability with *Resilience* & *Speed*. Ready to Deploy.

Rehlko have designed the e-POD, a site bespoke, modular, enclosed full plug and play critical power solution. The e-POD provides both the client and designer a wide range of choices in terms of power rating, capacity and product selection.

The e-POD solution can provide any or all of the following elements:

- Mains transformer 11kV/400V and RMU
- MV and LV switchgear
- Generator
- Fuel storage system
- Flue system including SCR
- UPS and battery system
- Busbar and cabling
- Cooling
- Lighting, fire detection and suppression
- Gantry access systems & steelwork
- Full factory testing
- Comprehensive all product service and maintenance support

CUSTOMISE YOUR PACKAGE

With package ratings available from 500kVA through to 4,500kVA, our highly reactive electrical and mechanical in-house design team provide customers with the flexibility to select from three different e-POD products, giving your team the ability to select a product & solution which matches your exact needs and requirements.

From package rating, space available on site through to the inclusion of client preferred equipment vendors, all can be fully supported by our highly adaptable supply chain.

Having our own e-POD production and development facility also affords Rehlko huge flexibility, particularly in formatting terms of the selected package, and being able to fully control our production timescales.

OUR SERVICES

To ensure we make the client experience as easy and straight forward as possible, Rehlko have a range of supporting services it offers in and around our e-POD solutions, which include:

- Full Design and build
- Offsite testing facilities (Up to Level 4)
- Sub or main contractor role
- Delivery off-load and positioning of all equipment
- Full end-to-end installation
- Commissioning (Up to Level 3)
- Site acceptance testing
- On-going package maintenance

Rehlko are proud to offer a true one stop shop plug and play powertrain package. From concept, through to installation and commissioning, all are completed in-house utilising our own teams. Our service can also extend to taking on the role of principal contractor if required.

Switchgear *POD*

The e-POD switchboard is the heart of the system and will be designed to totally reflect the power distribution requirements of the site and application. The e-POD concept provides the space and flexibility of design to accommodate all power distribution options, be they 100% generator/UPS support for the load or a mixed distribution arrangement.

The switchgear POD has fully segregated MV and LV areas which are cooled or ventilated as required. The transformer and RMU area of the switchboard POD has fan assisted cooling and weather louvres. The ventilation system for RMU and transformer space is accessed via the double louvred access doors. The louvres are suitably sized to ensure that there is adequate access for air into the space. The cooling air is mechanically extracted via a single louvre.

1. **TRANSFORMER**
The transformer itself will be suitably rated for the project and will typically be an ANAN 11kV/415V aluminium wound energy efficient 11% impedance cast resin transformer with tappings, a temperature relay, PT100 sensors, and extended aluminium LV bars. It will also be in full compliance to IEC 60076-11/EU 548.

2. **RING MAIN UNIT**
The switchgear POD includes a suitably rated Ringmaster fault make/load break, spring assisted switch. The unit also includes a circuit breaker castell lock, close coupled MU6D-N17/21, 2 x cable boxes and a power quality analyser with ethernet and modbus communications.

3. **TRIPPING BATTERIES**
The package includes tripping batteries for the MV switchgear.

4. **LV SWITCHBOARD**
Here will typically be two LV distribution boards housed in the package with internal power connections made using a suitably rated busbar. The combined distribution boards have at their heart the mains/generator changeover switchgear with outgoing feeds to the essential mechanical and auxiliary services, plus supplies to the single or dual UPS system and maintenance bypass.

The LV switchboards are an IP31 welded sheet steel multi-compartment floor standing cubicle, meeting form 4 type 6 with aluminium and mild steel top cable and exit gland plates, thermographic via mesh screens and finished in any RAL colour, suited to your preference.

The main busbars will be suitably rated, 4-Pole air insulated 100kA for 1 second ASTA/KEMA, certified with suitably rated 4-Pole Air Insulated riser busbar 100kA for 1 second ASTA/KEMA certified. The switchboards will be complete with all necessary earth bars, mains/transformer and generator incomer will be withdrawable pattern ACBs, including elements such as restricted earth fault relay, neutral earth device, surge protection and generator HMI, along with multiple outgoing ways to suit.

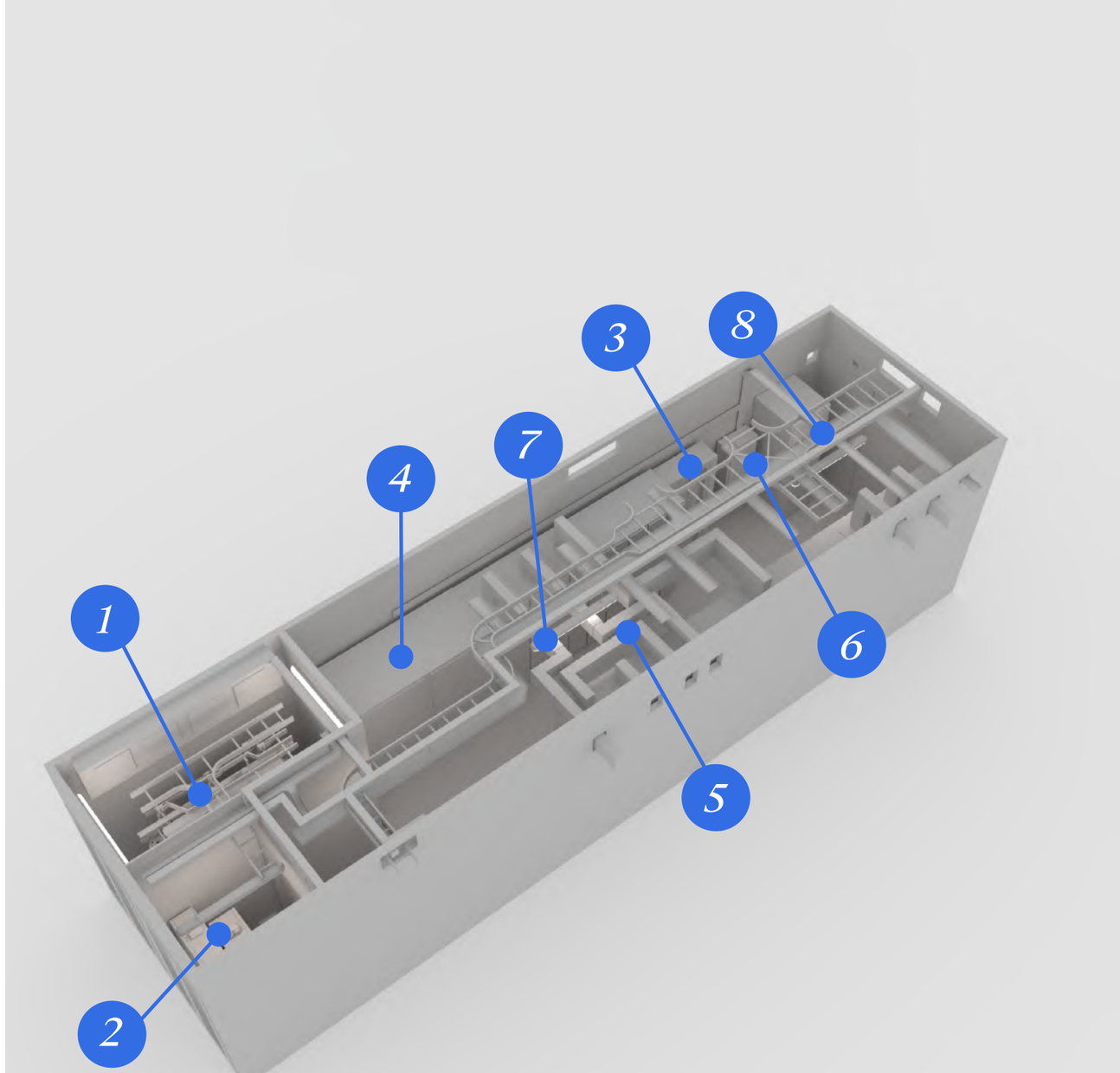
The flexibility offered by the e-POD system enables you as the client to select from your preferred equipment vendors or utilise those Rehlko have partnered with over many years, either can be fully supported by our highly adaptable supply chain.

5. **BUSBARS**
All main internal connections are made by a suitably rated busbar. Sufficient height is designed into the e-POD to facilitate the use of either busbar or cable from all of the main power output points.

6. **CABLE RACKING**
Designed for all internal connections, a ladder rack and cable tray is installed at a high level to accommodate all of the cable required by the project.

7. **FUNCTIONAL SYSTEMS**
All e-PODs are fitted with small power and lighting, including emergency lighting and a BMS/EMS central hub.

8. **FIRE SUPPRESSION**
Fire suppression equipment can be installed in all e-PODs



UPS *POD*

Each UPS e-POD can include UPS(s) rated to meet the specific requirements of the project. UPS packages typically come complete with high quality, stand mounted 10 year design life batteries, offering a full 10-minute end of life autonomy, or whatever autonomy the project requires. The battery system also includes a battery circuit breaker and string isolation.

As a vendor neutral solution, the selection of UPS(s) manufacturer is open for the client to choose. As with all other aspects of our e-POD packages, we are able to partner with Rehlko company Kohler Uninterruptible Power (KUP).

Alternatively, we can advise and draw on our supply chain of top global manufacturers to find a solution to meet the requirements of the specification. Rehlko would typically look for a high efficiency double conversion UPS design, which completely isolates output power from all input power anomalies, and delivers 100% conditioned, perfect sine-wave output, even during severe power disturbance. Space is available in the enclosure for either a single or parallel redundant UPS.

The battery system, which will be housed in a separate temperature controlled area, can be complimented with full DC protection as well as inter-tier protection/ isolation and battery monitoring systems. Where required, all ancillary services within the Rehlko e-PODs can be supported by a smaller UPS with integral bypass, battery circuit breaker and 10 minute battery system.

1. **UPS OUTPUT SWITCHBOARD**
Depending on the total system configuration, the UPS e-POD could contain the UPS output switchboard, or it could be located in the Switchgear POD. However, the board would be rated to suit the specific application and arrayed with the appropriate number of outgoing ways. The board would typically be an IP31 welded sheet steel multi-compartment floor standing cubicle, meeting form 4 Type 6, with aluminium and mild top entry and exit steel gland plates. Depending on the design requirements, options available to the customer are:

- An inboard maintenance bypass with quick connect load bank connections, designed to enable load testing of the UPS modules whilst maintaining a live outgoing critical load
- Mesh screens to facilitate thermographic testing

2. **POD COOLING**
Cooling to both the UPS and UPS battery room is provided by local CRAC units, with either cool water sourced locally or from a central system.

Cooling within the UPS e-POD would typically be provided by a smart four stage dual circuit unit, suitably rated to meet the cooling requirements of the plant within the e-POD. The battery is installed within its own room cooled by a suitably rated DX unit. Cold water for cooling can either be generated locally or fed from a central source.

3. **BYPASS PANEL**
If required, a full UPS wraparound maintenance bypass can be provided, either embedded into the LV switchgear or as a separate standalone unit housed either in the UPS or Switchgear e-POD.

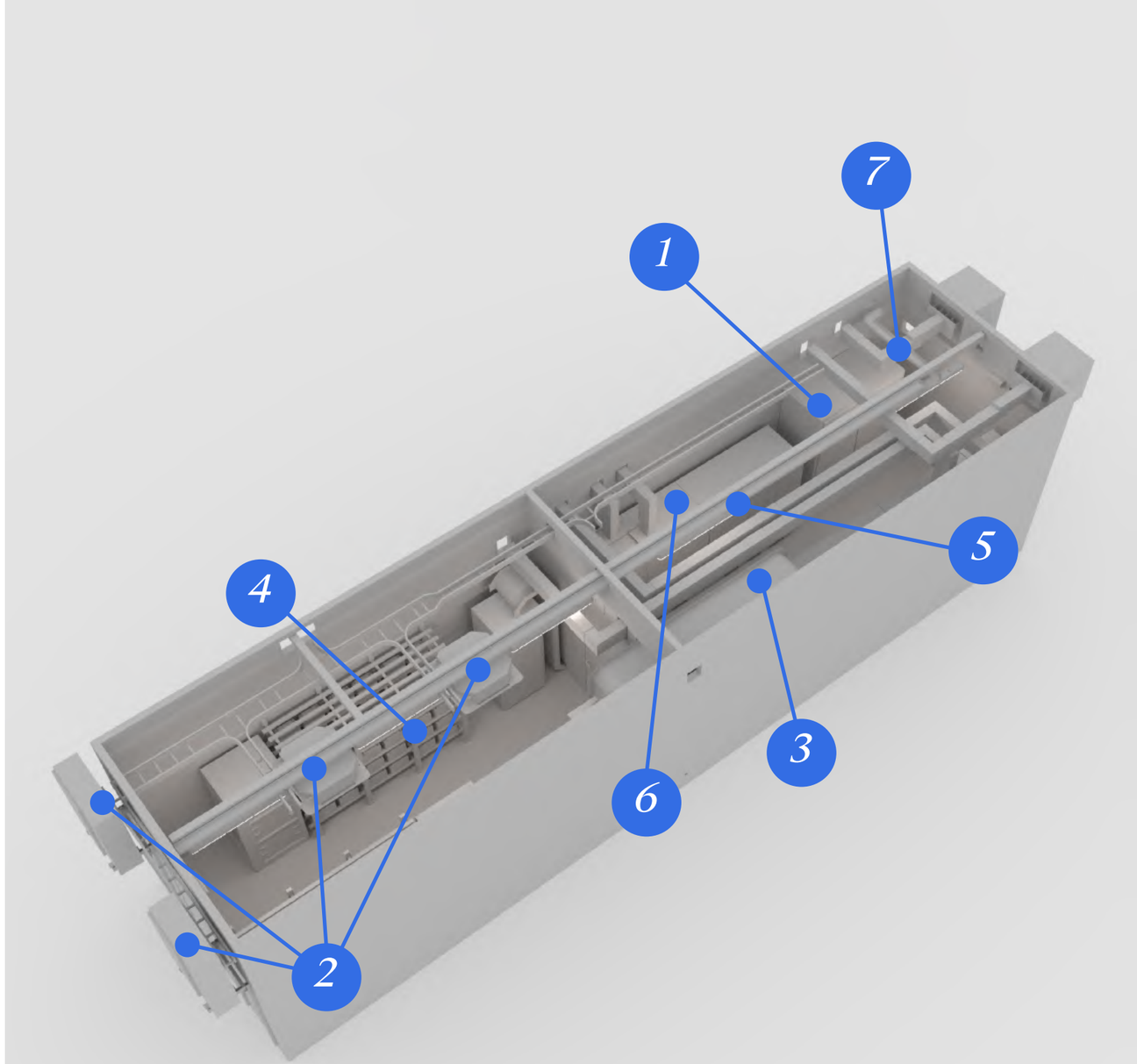
4. **BATTERIES**
Rack mounted battery installation complete with string and full battery isolation. Battery area cooled to maintain optimal battery performance and life time.

- 10 year design life
- Typical 10 minute autonomy
- Fully air conditioned

5. **FUNCTIONAL SYSTEMS**
- Provision of internal small power and lighting (inc emergency lighting)
- BMS/EMS central hub
- Fire suppression systems built to specification
- Access stairways and external lighting
- Access control as required

6. **UPS**
UPS rated to project specification

7. **BUSBARS**
All main internal connections are made by a suitably rated busbar. Sufficient height is designed into the e-POD to facilitate the use of either busbar or cable from all of the main power output points.



Generator *POD*

1. CIVIL WORKS & SITE PREP
Rehlko are able to deliver expert civil works, including foundations, site preparation, and structural installations for Data Centre crticial power projects. They also provide permanent gantry access systems & steelwork installations, designed to securely support critical power infrastructure. With a focus on safety, quality, and reliability, solutions are bespoke, tailored explicitly for site requirements.

2. ACOUSTIC SOLUTIONS
All generators are housed in an acoustically treated enclosure, rated to achieve a noise level required to align with site requirements. All generator enclosures are designed to match other e-POD enclosures, and come complete with air inlet and discharge attenuation to suit both site noise level, and configured to meet the dispositional requirements of the site.

Each generating sets enclosure is made using a 100mm thick preformed construction, comprising of a 3mm thick (10SWG) "Zintec" Zinc coated steel outer skin, and a 0.7mm (22SWG) perforated steel inner skin, with intervening space packed with high density mineral wool. The enclosure has a fully welded, bunded and sealed base area designed to accommodate the fluid capacity of the engine and radiator. Additionally, it has:

- An outward opening door on each side
- Water mist fire suppression systems

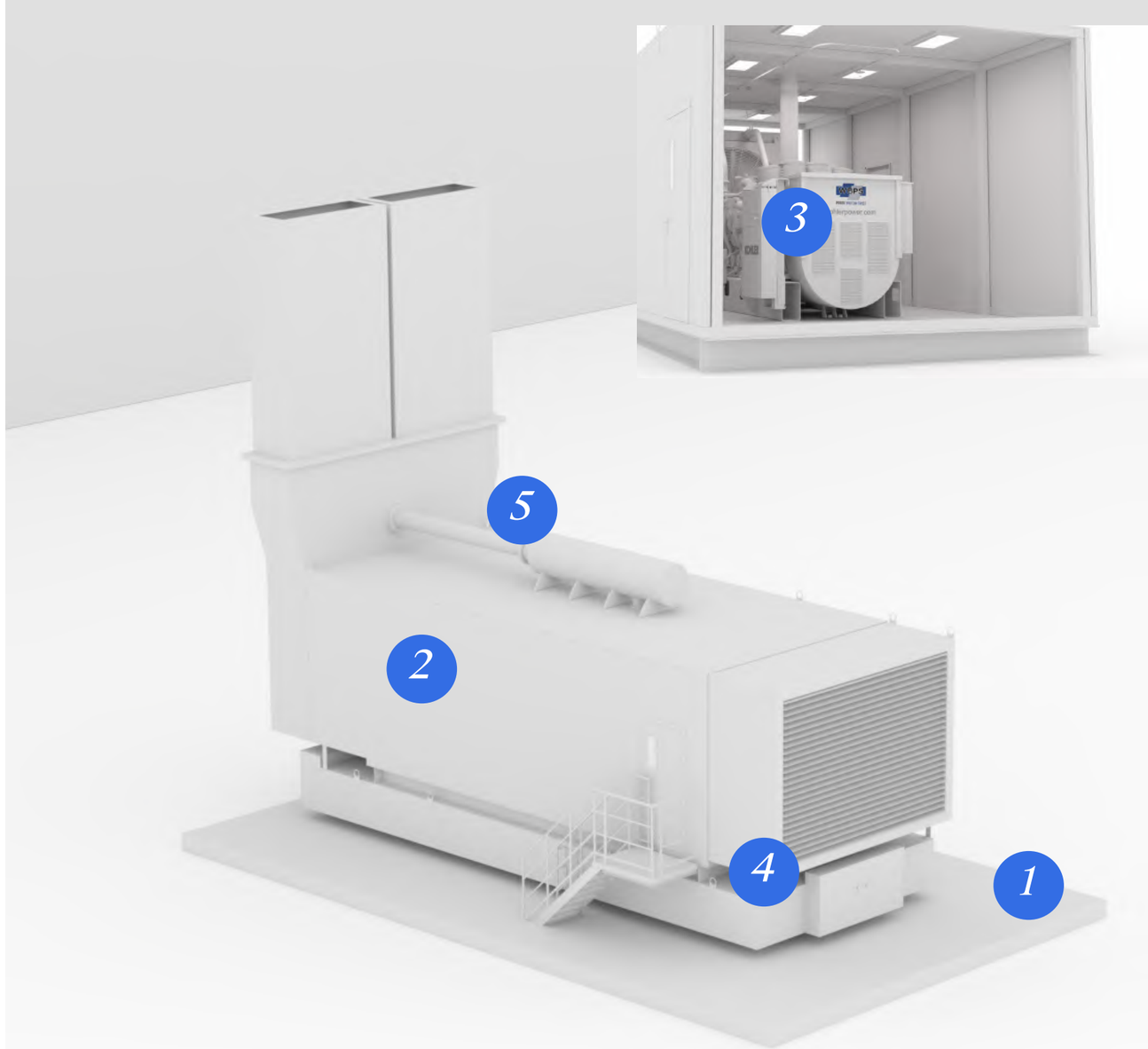
3. REHLKO GENERATOR SETS
With our e-POD critical power solution designed in ratings from 500kVA through to 4500kVA, we offer products from our industry leading range, with the 4500kVA generator offered being the only one in the marketplace of this rating. Final specification for the generating set will be determined once all of the site-specific loading and operating criteria have been identified. Rehlko generating sets are available with a wide range of options, aimed at enhancing overall system performance. Such items include:

- Provision of dual starter motors, dual starting batteries and associated battery chargers
- Set mounted, circuit breaker protected load bank connection points
- Lube oil make up system
- A choice of generator control panels, to ensure integration with site wide monitoring systems

4. FUEL SOLUTIONS
The e-POD package is designed to minimise the total solution footprint, so the generator enclosure is designed to sit on a structural slab/belly tank which allows us to maximise footprint savings. Our standard design is based on either a 24 or 48 hour run time capacity at full load, but this can be adjusted to suit the project/site specific requirements. If required, the bulk fuel storage tank can be located away from the generating set, with fuel being piped from that location, or the tank can be local to the generator, fed from a site wide bulk system. Each belly tank is filled via a fill point cabinet and fuel polishing system, both of which are located at the front of the tank for ease of access and filling. Flexible fuel lines from the belly tank terminate at the generator base frame. A fuel safety system is also installed which comprises a free-fall fire valve, complete with tilt switch.

5. SILENCERS & SCR TREATMENTS
The exhaust gas silencing system will typically be mounted on the roof of the generator e-POD enclosure. To meet any site-specific requirements, the exhaust system point of discharge can be extended by the use of a ground fixed or building mounted flue system. All Rehlko engines offer low levels of NOx emissions, but if required by the project scope, these emissions can be further reduced, by the addition of a roof mounted selective catalytic reduction (SCR) system, enabling the NOx levels to meet the most stringent of planning requirements.

An AdBlue tank would typically be located at the front of the enclosure (adjacent to the fuel fill point) for ease of filling. Cooling air off of the radiator can either be discharged horizontally or via a turning duct. The engine exhaust gases can also be either discharged horizontally or via a flue system, terminating at a point suited to the configuration of the building.



Project Summary

- 60 x Rehlko KD-1650 Generator e-POD's at 11kV
- Operating in groups of 6, synchronised together for a N+1 system
- 48hr belly tank
- SCR system c/w SS flue
- Complete delivery, offload & position
- Mechanical installation

Wales *Data Centre*

Rehlko successfully delivered and installed 60 KD-1650 11kV Generating PODs, configured in synchronised groups of six to form a robust N+1 system. Each unit features a 48-hour belly tank and an integrated SCR system with stainless steel flue, ensuring compliance and efficiency. The scope included full delivery, offload, positioning, and mechanical installation. This turnkey solution highlights Rehlko's capability to manage complex power infrastructure projects end-to-end, providing clients with reliable, scalable energy systems backed by expert engineering and seamless execution.

Lead Time Quoted	Committed
38 Weeks	Groups of 6, every 4 weeks

Project Summary

- 9 x Rehlko KD-3500 Generator e-POD's at 400V
- 9 x Switchgear POD's
- SCR system c/w SS flue
- Bespoke 65dba@1m acoustic enclosures
- 48hr belly tank
- Full Installation, offload and positioning
- Full commissioning program

London *Data Centre*

Rehlko delivered and installed 9 KD-3500 Generator PODs operating at 400V, alongside 9 dedicated Switchgear PODs. Each unit was equipped with a 48-hour belly tank, SCR system with stainless steel flue, and housed within bespoke acoustic enclosures rated at 65dBA @ 1m to meet stringent noise requirements. The project included full delivery, offloading, positioning, and a comprehensive commissioning program. This installation showcases Rehlko's ability to deliver tailored power solutions with precision engineering, acoustic control, and end-to-end project management.

Lead Time Quoted	Committed
38 Weeks	Groups of 6, every 4 weeks

Ready to Scale with Confidence?
Let's Talk

WBPS *is now* rehlko