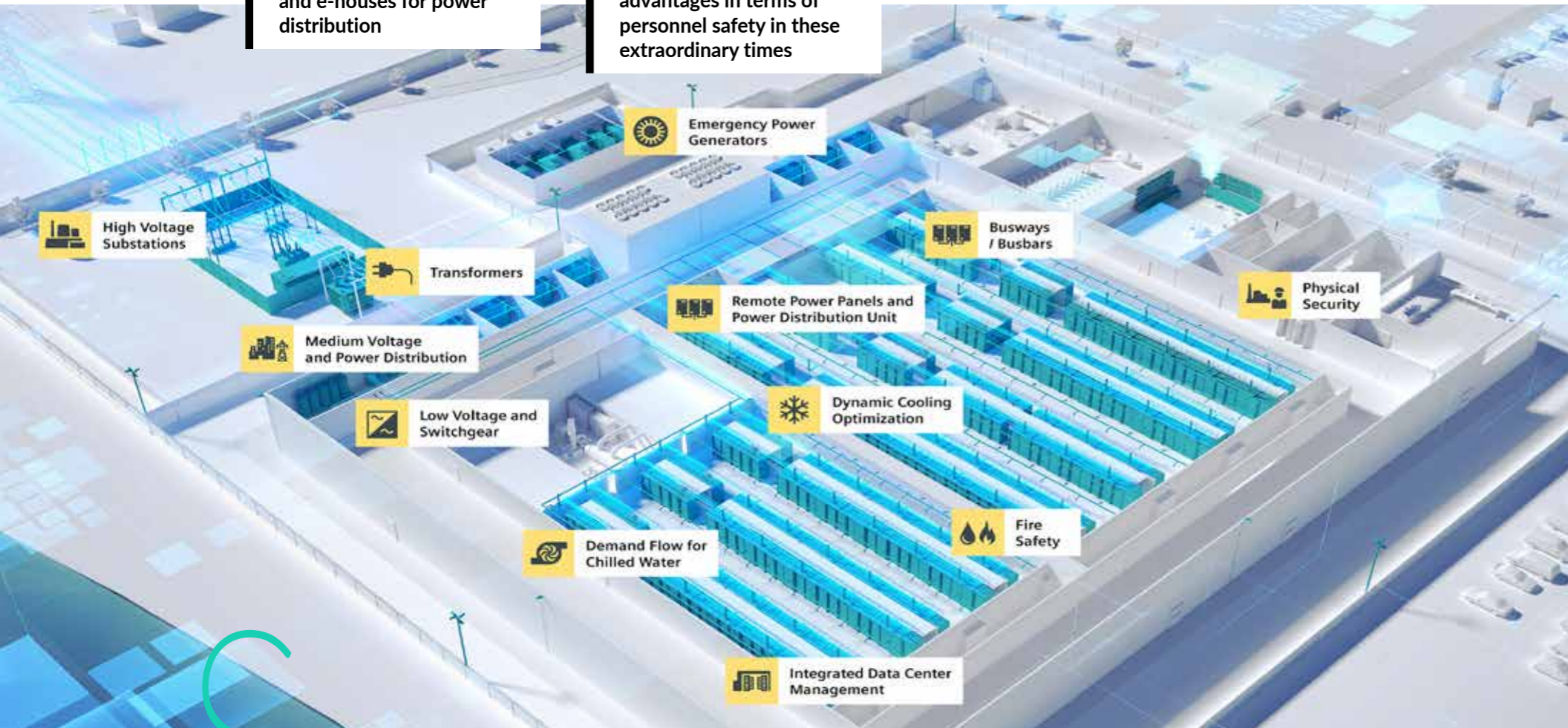


# REMOTELY MADE READY FOR OPERATION: PLUG & PLAY ENERGY UNITS FOR DATA CENTRES

Prefabricated, fully tested Power Skids, Power Kiosks and e-houses for power distribution

Remote preparation offers advantages in terms of personnel safety in these extraordinary times



Similar to industrial factories, data centres are increasingly being built in a modular way, with the physical building in question and the e-installations being realized in parallel. Siemens' Centre of Competence (COC) Critical Power Data Centres responds to this development with prefabricated, fully tested Power Skids, Power Kiosks and e-houses for energy distribution among many of our solutions for Data Centres.

Remote preparation offers advantages in terms of personnel safety in these extraordinary times. **Derek Kelly, Regional Account Manager at Siemens for data centres in Dublin:** "By applying Siemens' modular solutions, new data centres can be delivered faster. This involves assembling and testing the key components of

the critical electrical infrastructure in an external, controlled environment and then installing them on-site in a fully operational state. The Power Skids are built parallel to the physical building in which they will be installed. This shortens the turnaround time of the entire project. In addition to saving time, building skids in a controlled environment provides benefits in terms of safety and quality".

**Aiden Cawley Distribution Systems Business Manager at Siemens in Ireland:** "We know what it's like to run large, industrial projects, conduct research and create optimized designs that match the client's wishes and capabilities. We work with international standards and know the legislation and regulatory framework in the countries where our modular solutions are installed".

Siemens has been building prefabricated energy distribution solutions for industry for decades. These project-specific and custom-designed units are placed in large modules (IEC container size or oversized units) or on steel frames, including integration with emergency power systems (UPS), control, protection, low and medium voltage systems as well as integrated power busbar fully type tested, to IEC standards.



*E-House solutions – the fast-track project approach*

across all services. Installations will be tailored to the maximum dimensions for regular road or sea transport, which means that time-consuming and expensive permits and equipment for special transport can be omitted. One solution is to work with sub-skids instead of one large skid. The sub-skids only need to be linked together on site. The entire transport is arranged as efficiently as possible from a time and financial point of view.

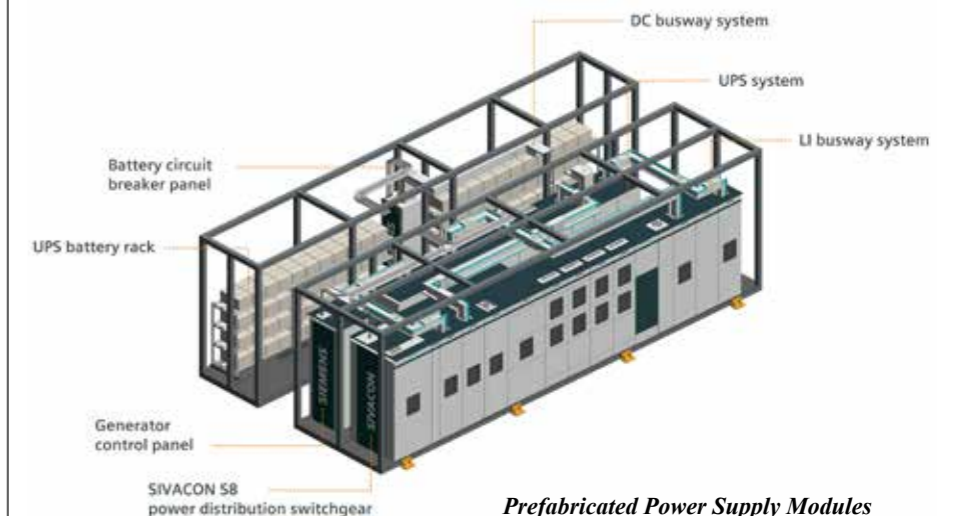
At Siemens we understand Data centres have to protect valuable and critical data around the clock, 365 days a year. While data centers focus on storing and processing data, electrical power is not core business – but it is one of the main cost components and it must ensure availability as close to 100 percent as possible. That's why power matters. Finding solutions to provide absolutely stable, reliable, and efficient power supply is a crucial factor for the economic operation of data centres.

With **Totally Integrated Power (TIP)**, Siemens comprises a complete portfolio that enables maximum availability and reliability, tailored towards the specific needs of data centers of any size, while providing outstanding energy efficiency. In today's data centres, the stakes are high and the challenges manifold. Maximum uptime. Highest efficiency. Full scalability. You're responsible for delivering it all, and in the most secure environment. We've pooled our vast expertise and experience across several disciplines. The result is a comprehensive portfolio of integrated solutions and global service. You need to reach the highest performance – we can help you get there.

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From the COC, similar turnkey projects are also being rolled out at hyperscale and colocation data centres all over the world. Designers at the COC make 3D designs in BIM. In addition to the entire interfacing, also with third-party products, the Power Skids are thoroughly tested in advance. Together with the client's engineering team, we provide customization. Working with Power Skids saves a lot of time. Logistics become simpler, as it is no longer necessary to bring all equipment and material to the site. Extensive installation work and cabling on site are no longer required.

With early engagement with clients the entire process is considered in advance



*Prefabricated Power Supply Modules*