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Remotely made ready for operation: plug & play energy units for data centers

- **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 centers are increasingly being built in a modular way, with the physical building in question and the e-installations being realized in parallel. Siemens' Center of Competence (COC) Critical Power Data Centers responds to this development with prefabricated, fully tested Power Skids, Power Kiosks and e-houses for energy distribution. Remote preparation offers advantages in terms of personnel safety in these extraordinary times.

Barry van den Nouland, Engineering Project Manager at Siemens' COC for data centers in The Hague: "By applying Siemens' modular solutions, new data centers 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 will be 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".

Jean-Paul Lorrier, data center consultant at Siemens: "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 the heavy 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 and low and medium voltage components.

From the COC, similar turnkey projects are also being rolled out at hyper-scale and colocation data centers 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.

The entire logistic process is considered in advance. 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 could be 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". The Power Skids are used in data centers in Singapore, Australia, Germany, Ireland and Sweden. Besides the Power Skids, Siemens also designs and builds Prefabricated Structures. These are large units that together form a complete building. Its dimensions vary from tens of square meters to thousands of square meters. Solutions that are spread over several floors are also a possibility. E-houses and Power Kiosks are also part of the portfolio. Both are suitable for outdoor installation.

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