Schneider Electric Prefabricated Data Centers

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Next Step in Modularity

Modular Data Center
- The “system” approach to design and construction
- Improves reliability
- Decreased installation time and design effort
- Grow infrastructure in whitespace with demand

Prefabricated Data Center
- Modularity in larger building blocks.
- Pre-assembled systems, delivered on-site, factory tested.
- System-optimized designs with onboard management systems.
- Grow entire infrastructure with demand
- Quick installation, reduced commissioning time
Prefabricated data center can offer these advantages over traditional options

**Flexible**
- Not limited to traditional building space constraints
- Easily add capacity in branch or remote locations
- Can be evaluated differently in terms of depreciation and taxes
- Inherently scaleable

**Fast**
- Shorten planning and design cycle and reduces complexity
- Simplifies the build process
- Delivery in 16 weeks or less (upon design sign-off and receipt of PO)
- Repeat solutions in multiple locations

**Predictable**
- The density, availability and efficiency you expected
- The *cost* you were promised
- Less changes to the original design
- Assembled and tested in factory

White Paper 163 discusses these benefits of prefabricated modules
Simplify Lifecycle Services with Prefabrication

Minimize design work to module and site layout, common connections, and local codes.

Simplify planning process with 35 Prefab Reference Designs.

Minimize on-site programming and configuration with integrated DCIM software.

Reduce on-site construction and coordination.

Are Prefabricated Data Center Module the right fit?
Data center components can be delivered as prefabricated functional building blocks.

**Cooling**
- Chillers
- Economizers
- Pump packages
- Monitoring and Control
- Optional UPS

**Information Technology**
- IT racks
- Security and Monitoring
- Computer Room Air Conditioning
- Power Distribution Unit’s
- Optional UPS

**Power**
- Uninterruptible Power Supply
- Switchgear
- Air conditioning
- Monitoring
- Genset connections
Planning Tools

Prefabricated DC White Papers
#218, 163, 164, 165, 166

http://www.apc.com/prod_docs/results.cfm?DocType=White%20Paper&Query_Type=10

Trade-Off Tool - Cost Analysis of traditional vs Prefab

Prefabricated Data Center Reference Designs

- Library of engineered reference designs
- 500kW, 1 MW, 2MW, 3.3MW and 20MW deployment sizes
- Uptime Tier II and III designs
- Semi and Fully prefabricated configurations
- Design Methodology and Explanation
- System level technical specifications
  - Available load, PUE, Density, Layout
- Complete schematics and BOMs

Website contains pre-engineered designs and technical documentation

- Submittal Drawings
- Electrical and mechanical one-lines
- Individual Data Sheets on each module
- Manuals and Site Prep Guides
- Downloadable CAD files

http://www.apc.com/products/category.cfm?id=22