

Off Site Constructed Data Centers

The Mission Critical or Data Center market covers a broad spectrum of industries; social media, healthcare, financial, retail and many more. Every business needs to store data; whether owned or rented, the information and applications have to be housed somewhere. Data Centers come in all shapes and sizes, from a 1KW closet to an 80 MW Greenfield data center. The method in which these Data Centers are delivered has always included one key element; speed to market.



This is where the modular data center industry was born. It started with shipping containers and various modular approaches which left much to be desired with regard to resiliency, customization, and accessibility. The solution was Off Site Construction or OSC.



Off Site Construction is not limited by the conventional barriers of modular manufacturing. EAS coined the term "Off Site Construction" because they do just that. EAS utilizes advanced building methods to construct a building off site in a controlled

environment where the elements are not a factor. The service limitations of conventional modular are not present with OSC. Space is allowed for access and service of all equipment and appurtenances. Schedule is reduced because the Data Center is built utilizing manufacturing processes such as flow manufacturing and Just In Time. Where a typical Data Center (100KW to 1 MW) can take up to 18 months to complete from the design phase to final commissioning, an Off Site Constructed Data Center with the same scope, takes less than 9 months.

EAS provides a customized solution approach to each data center project. Different organizations have different requirements for mechanical systems, electrical systems, architectural, structural, redundancy or Tier Level, security, and so on.



OSC is flexible and can incorporate virtually any building system into the design of the Data Center. The OSC Data Center is a hardened building that can withstand winds up to 175MPH (or higher if needed) and meets Seismic Zone 4 criteria. The sections are shipped to the site, erected and made weather tight in a matter of days. The OSC data center is complete when it arrives onsite; mechanical, electrical, controls, security, fire protection, structural and architectural walls and finishes are installed at EAS. The Data Center is ready for server racks and IT cable to be pulled once it is assembled onsite.



When building a Data Center, the most difficult decision is what size to build. Trying to forecast the needs of the business out 3, 5 or even 10 years can be an impossible task.

OSC provides scalability so you only build what you need to build for the near term. This allows reduced capital spending. The OSC data center can also be categorized as a piece of equipment in most applications. This opens up many tax saving opportunities, such as accelerated depreciation and reduced taxable building square footage.

From conception through commissioning, EAS Data Centers are engineered to provide a common-ground structure while simultaneously addressing the requirements, challenges, and time horizons of various groups within an organization.

ASK THE EXPERT

Q. What are the typical cost savings you expect to see with OSC Data Centers?

A. 10-15% less than conventional built Data Centers.

Q. How much time can be saved in the completion of a typical Project?

A. We typically see from 2 to as much 6 month reductions in schedules.

Q. What type of HVAC system is used in these OSC Data Centers?

A. It is totally custom. We have used anything from 100% OA with Evaporative cooling to DX recirculation units with Pumped refrigerant economizers.

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