

MODULAR INFRASTRUCTURE SOLUTIONS



Modular Infrastructure Solutions (MIS) is an innovative approach to building infrastructure that involves assembling pre-fabricated modules or components in a factory and then transporting them to the site for installation. This approach is commonly used for building data centers, as well as other types of facilities such as healthcare facilities, schools and offices.

Overall, the main goal of prefabrication is to streamline the construction process, reduce time and costs, improve the quality of the end product, while also minimizing the environmental impact of construction activities.



WHY PREFABRICATION?



Reduced construction time

Prefabrication allows for components to be built off-site, which can significantly reduce the amount of time required for on-site construction. This can help to accelerate project timelines and reduce costs associated with on-site labor and management.



Increased efficiency & safety

Prefabrication helps streamline the process, reducing waste, materials and resources required for construction. It increased efficiency and reduced costs, at the same time, improved workplace, safety and health (WSH) performance with minimized on-site presence.



Greater flexibility

Prefabricated components can be easily modified and adapted to meet changing project requirements. This can help to improve the flexibility of the construction process, enabling faster response to changes in the project scope or schedule.



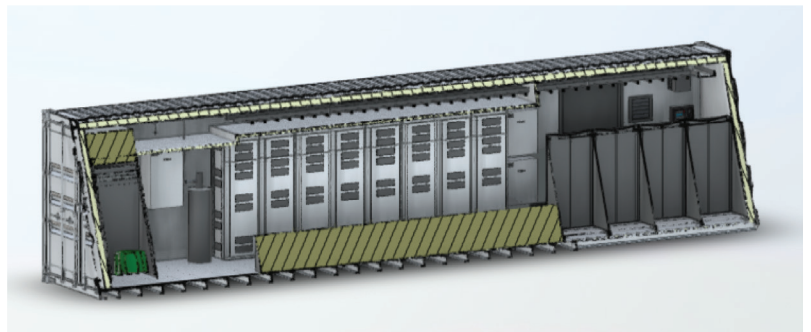
Optimize Footprint

Prefabrication in power engineering offers several opportunities to reduce the carbon footprint, reduce waste and incorporate green energy technologies, leading to more sustainable and environmentally friendly infrastructure.

PREFABRICATION

Prefabricated Enclosures / Skid-base Systems

Prefabrication in power engineering refers to the process of assembling electrical components and systems in a factory or workshop setting, rather than on-site. This can include the fabrication of electrical enclosures, as well as skid-based systems for power generation, distribution and control.



Enclosures are used to protect electrical equipment and systems from the environment, as well as to provide safety and security for personnel working around the equipment. Prefabricated enclosures can be designed and built to meet specific requirements for size, shape, materials and functionality, and can be tested and certified for performance and safety before installation.

Skid-based systems, on the other hand, are prefabricated platforms or structures that can be used to support and transport electrical equipment such as generators, switchgear, transformers or control systems. Skids can be designed and built to meet specific requirements for size, weight, mobility and functionality, and can be pre-wired and tested before installation to ensure proper performance and functionality.



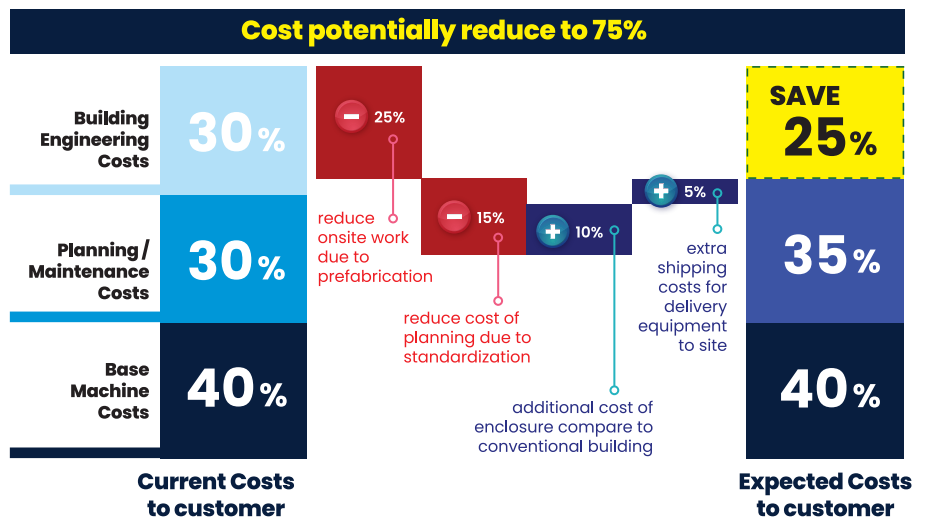
POWER TRAIN UNITS (PTUs)

Power Train Units - Switchboard / UPS / Generator

Power Train Units (PTUs) are containerized customized power system supplies designed to provide reliable and flexible power for a wide range of applications. PTUs are typically used when temporary or mobile power is required, such as in construction sites, remote locations or emergency response situations.

A typical PTU power system is designed to be modular and scalable, allowing it to be customized to meet the specific power needs of the application. PTUs can be configured to operate on various fuels, including diesel, natural gas and biofuels, or with renewable energy sources, such as solar energy, energy storage system, batteries or fuel cells.

Using energy storage systems in a PTU can provide many benefits, including reducing the need for generators and the associated fuel and maintenance costs, increasing the reliability of the backup power system and reducing the carbon footprint of the application by using renewable energy sources.



- Less maintenance & reducing overall cost of ownership
- Great flexibility in integration to existing power infrastructure
- Space-saving and reduced noise & emissions
- Faster response time compare to genset
- Improved Reliability by reducing the risk of downtime
- Cost savings and environmental friendly

MECHANICAL, ELECTRICAL & PLUMBING (MEP)

Mechanical, Electrical & Plumbing (MEP) Engineering System

MEP engineering is a specialized branch of engineering that deals with the design, installation and maintenance of a building or infrastructure's mechanical, electrical and plumbing systems.

An ideal MEP system can contribute to a building or infrastructure's long-term operational efficiency, sustainability and safety. A well-designed and implemented MEP system can positively impact a business by reducing costs, increasing productivity, minimizing risks and enhancing brand reputation.

- Provide a comfortable and safe environment for the occupants or users of a building
- Reduce energy consumption and costs with efficient HVAC system
- Promote sustainability & reduce environmental impact of a building or infrastructure.
- Compliance with regulations and standards.

LET US CUSTOMIZE YOUR POWER NEEDS. CONTACT US TODAY.