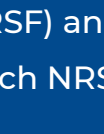


WEIGHING THE Costs and the Benefits of a Modular Data Center



Building data centers can take a great deal of time and deplete many resources.

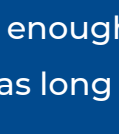
With so many costs to consider—including construction, labor, materials, anticipated downtime, power, maintenance and more—it's safe to say that many data center projects can turn out expensive.



According to the [U.S. Chamber of Commerce](#), the average data center has **165,141** net rentable square feet (NRSF) and costs **\$1,305** for each NRSF.



Crunch the numbers, and you'll end up with a price tag of **\$215.5 million!**



If that wasn't bad enough, the construction process can take as long as **24 months**.

GOOD NEWS

It doesn't have to be that way.

Prefabricated data centers are a viable option to:

REDUCE THE COSTS



— AND —



INCREASE EFFICIENCIES

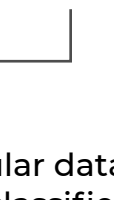
at all stages of data center ownership.



Snapshot of Modular Efficiencies and Cost Savings



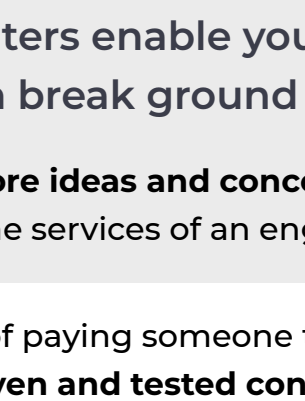
Believe it or not, you might even be able to cut costs by as much as **30 percent** when you choose the modular approach to construction.



At the same time, you can also cut construction time by **30 percent** or more!

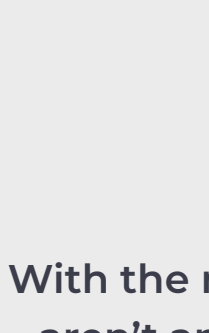
Modular data centers offer lower **operating costs** per rack, because you're not overbuilding capacity and you get exactly what you need.

Because modular data centers could be classified as **equipment** and not a structure, you may end up with some additional tax savings.

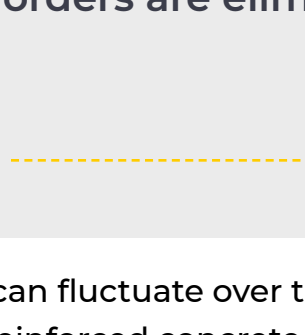


Pre-Construction Benefits and Cost Savings

Prefabricated data centers enable you to start saving money before you even break ground on your project.



- You can **explore ideas and concepts at your own pace**, instead of enlisting the services of an engineering firm or architect.
- And instead of paying someone to reinvent the wheel, you can **leverage proven and tested construction methods**.
- This prevents a **costly design error** from putting a dent in your **bottom line**, down the road.

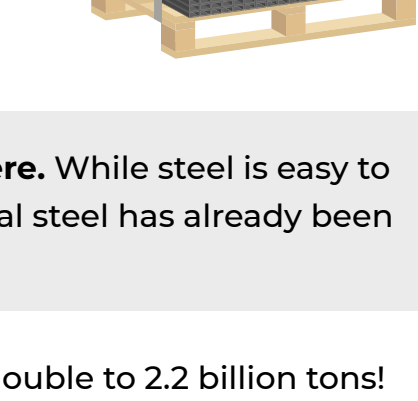


Construction Benefits and Cost Savings

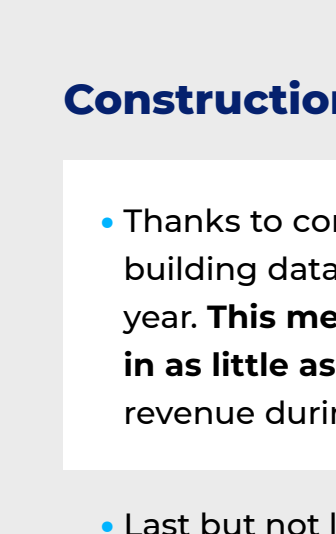
With the modular approach, what you ask for is what you get. There aren't any surprises when the bill comes. The upfront cost will be the total cost, as change orders are eliminated from the equation.

Construction Material

- Although the price of steel can fluctuate over time, it's **typically cheaper** than reinforced concrete, which usually needs to be reinforced by steel anyway.
- There are also environmental considerations in play here.** While steel is easy to recycle—to the point that almost 100 percent of structural steel has already been recycled—concrete often ends up in landfills.
- By 2025, **worldwide construction waste** is expected to double to 2.2 billion tons!
- The modular approach means that there won't be any waste on your site.** The product that is delivered is completely finished, which protects the environment, while eliminating the costs associated with disposing any waste.



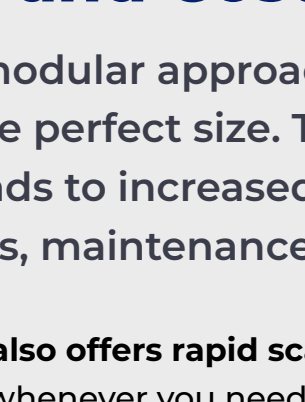
Construction Labor



- Prefabricated data centers let you **reduce labor costs and risks** during construction. Instead of starting from scratch, you can lean on a proven manufacturing process and high-quality standards.
- Speaking of labor, modular also **reduces the skills required for work** on assembly and maintenance. Think of it as a plug-and-play solution—but for a building.

Construction Time and Space

- Thanks to construction efficiencies, the modular provider is building data centers from its climate-controlled factory all year. **This means your data center can be up and running in as little as 12 weeks.** This significantly reduces lost revenue during downtime.
- Last but not least, modular offers a **small footprint**, which can help push back against rising real estate costs, or allow you to repurpose existing parking spaces or facilities. Because some large cities can have real estate costs as high as **\$4,000 per square foot**, this is no small feat.



Post-Construction Benefits and Cost Savings

When you take the modular approach, you'll end up with a data center that's the perfect size. This means you'll avoid overbuilding, which leads to increased building costs, energy and cooling costs, maintenance costs and more.



- Modular also offers rapid scalability.** You can quickly add capacity whenever you need it.
- Prefabricated data centers also **offer consistency across multiple sites.** This enables you to make changes across all sites that save time and cost.
- Modular is also flexible by design.** If you need to move buildings or move your data center somewhere on the same site, you can take it with you.

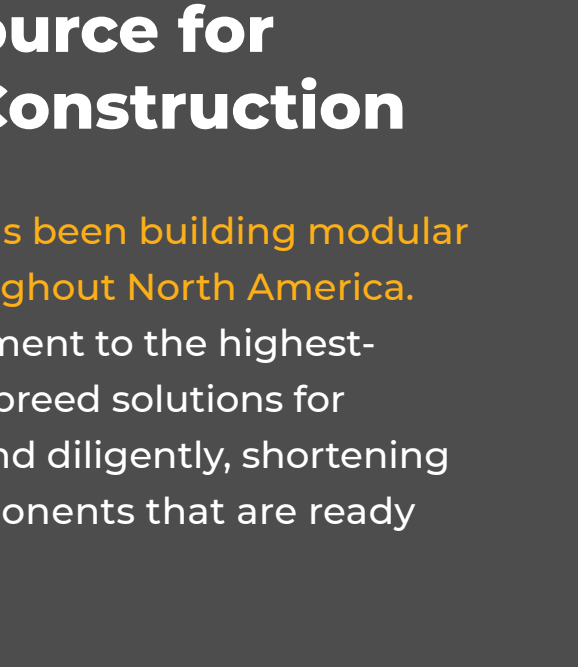
How Selecting the Right Modular Partner Can Save You Money

You've decided to build a modular data center to save **TIME** and **MONEY**. **That's great news!**

Unfortunately, you can't just partner with any supplier and expect great results. You need to do your due diligence and pick the perfect partner.

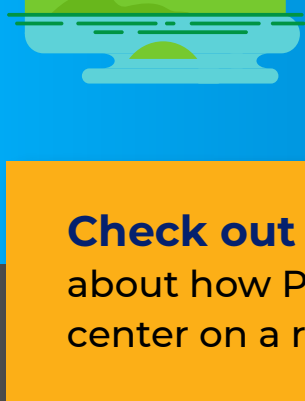
The right modular partner will:

- Be **vendor-agnostic**, which enables them to provide more competitive bids because it has diversified supply chains.
- Have **stringent quality systems** that deliver consistent results and eliminate re-work in the field.
- Provide **delivery and installation** options so you don't have to worry about logistics and delays.
- Ship modules that have been factory-tested as a complete solution**, so they arrive ready to use.



PCX: Your Go-to Source for Modular Data Center Construction

For more than 25 years, PCX has been building modular data centers for clients in all industries throughout North America. Our vendor-agnostic approach and commitment to the highest-quality standards enable us to build best-in-breed solutions for every project we take on. We work quickly and diligently, shortening construction timelines and delivering components that are ready to use out of the box.



One last thing: Modular data centers are not just beneficial from a cost and efficiency perspective. They also offer flexibility in environments that wouldn't support a traditional data center.

Check out this case study to learn more about how PCX built a bespoke modular data center on a remote South Pacific island.