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T5 CONSTRUCTION SERVICES:

The data center experts

**AS A PROVEN EXPERT IN
THE RAPIDLY-EXPANDING
DATA CENTER FIELD, T5
CONSTRUCTION SERVICE IS
FINDING ITS TURNKEY OFFERING
IN HIGH DEMAND**

With the proliferation of high speed networks and information exchange, the data center market is on the crest of a wave. If a recent report is to be believed, the data center infrastructure market is expected to surpass \$90bn in the next six years with new technology driving demand.

T5: An introduction

In addition to delivering first class data center facilities as a landlord, T5 Data Centers has become a proven expert in building data center facilities via its construction division T5 Construction Services, LLC (T5CS).

T5CS excels at various service offerings: Turnkey data hall projects; data center upgrade/expansion projects; equipment procurement; and project management and consulting. T5CS' expertise allows them to execute with regards to design, equipment procurement, construction, start-up and commissioning, security implementation, successful

integration, and turnover to the facility management team.

Put simply, building and operating data centers is T5's core competency. T5's ability to perform projects in a turnkey manner allows their clients to focus on their core businesses. "We view ourselves as an extension of our client's staff. We understand what its like to be an owner/end user, because we are one. As a landlord, we tailor our design to meet the needs of our client. We take the same focus when our construction service group performs turnkey construction projects. Our goal is to customize the right solution for our clients," says Robbie Sovie, Senior Vice President, Development, for T5 Construction Services

The message from T5 to its clients – many of which are Fortune 500 companies – is a simple but effective one: "Let us build the data center you'd like to build yourself". To deliver on such a personal pitch requires extremely close collaboration between client and contractor. "A

T5CS'S SERVICES

TURNKEY DATA HALL PROJECTS

Delivering turnkey data hall design/construction projects on schedule and under budget. The turnkey delivery model allows T5 take leadership for the entire project and proactively implement a solution that truly works for the customer.

DATA CENTER UPGRADE/EXPANSION PROJECTS

T5 has experience in managing a construction project in a “live” data center environment. The company collaborates with the facility management team to implement a solution that works for both construction and operations.

EQUIPMENT PROCUREMENT

T5CS has strong relationships across the equipment vendor industry, and believes these relationships are attributable to our success because buying power helps garner the best possible costs per unit and the best lead times available to the market. By utilizing these relationships, T5 has successfully procured equipment to enhance construction schedules, while also saving costs for the customer.

PROJECT MANAGEMENT/CONSULTING

T5 offers project management and consulting services for enterprise data center projects. It has proven expertise in the overall leadership/ management of due diligence, design, contract procurement, construction procurement, preconstruction, project delivery, closeout, and handoff to facility management team.

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lot of companies will say they want to become partners to their clients but T5 truly means it,” says Sovie. “We sit across the table from our clients and look them in the eye to understand exactly what it is they want, and then we strive to achieve that. We challenge our team to build those relationships because they result in the best projects. One team, one dream, let’s make it happen – that’s the approach.”

Similarly, T5 values its relationships with equipment vendors. T5’s vendors are critical to its success. “As owners we purchase equipment in scale,” says Sovie, “so we have purchasing power. We’ve developed healthy relationships with a group of vendors who have proven their ability to pull a rabbit out of a hat for us when we need them to. When you can call some of the big players and say ‘we need a generator in three months’ and they figure out a way to make that happen, it’s huge.”

How T5 operates

T5CS thrives because its foundation is strong. T5CS’s ability to execute on five core principles is key to its success:

SAFETY: Adherence and execution of strict safety process and procedures

“WE’VE DEVELOPED HEALTHY RELATIONSHIPS WITH A GROUP OF VENDORS WHO HAVE PROVEN THEIR ABILITY TO PULL A RABBIT OUT OF A HAT FOR US WHEN WE NEED THEM TO”

— Robbie Sovie, Senior Vice President, Development, for T5 Construction Services
TalkTalk



Construction ^{GLOBAL}

A hand is shown tearing a white sheet of paper. The paper is being pulled away from the bottom left, revealing a detailed cityscape underneath. The cityscape includes various buildings, some with domes and arches, and several construction cranes. The background is a light, hazy sky. The overall composition suggests a transition from a blank page to a complex, detailed world of construction.

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is one of T5's core focus points. Maintaining a positive safety record is critical to T5CS, which has a Zero Accident Objective across all our projects.

PROCESS & PROCEDURE:

Details, details, details... executing on the process and procedures is not just busy work for T5CS. The company understands that being detailed and diligent with process and procedures is critical to success. Its processes and procedures are utilized at every level of projects: design, preconstruction and bid levelling, construction delivery, start-up and commissioning delivery, security integration, completion and closeout, etc.

COMMUNICATION & COLLABORATION: Effective communication and collaboration is critical to a successful project. "We want our clients to enjoy the construction experience," adds Sovie. As an example, T5CS uses a CFD analysis (Computational Fluid Dynamics) to analyse IT loads within a data hall. T5CS collaborates with clients on the

most optimal data hall design based on what the CFD analysis presents. "The CFD model is important when clients are trying to maximise their output in terms of kilowatts. It shows us where we need to contain temperatures via containment, chimney, or other design measures," says Sovie.

As part of its service offering, T5CS is adept at data center upgrade programs and expansion projects, where it has to undertake mission critical work in the 'live' environment. Once again, collaboration is crucially important, says Sovie: "I think our track record with working on live projects is a major reason why clients come to us. That's more the reason they use us. You simply have to collaborate with the facility group, so that you're going through maintenance procedures step-by-step; you've got to do 'A' before you do 'B' to get to 'C', so we stick rigidly to that. Added to that, it's a question of the correct competences and skills for the job, and our team has that."



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PROJECT FOCUS

T5 data centers owns and operates data centers in all of the sector's most important markets, including Dallas, LA, Atlanta, Portland, Charlotte, Ireland, Chicago, and New York. Here are a few of the company's most recent project highlights, including its entrance into the European market...

T5@ATLANTA II

T5 Data Centers recently finalised the purchase of a new 40-acre property in Douglas County as the location for T5@Atlanta II, the company's second data center in the Atlanta region. The land acquisition marks the first step in the construction of a new 130,000-square-foot data center, purpose-built to meet the needs of hyperscale enterprise customers. When it is completed, the T5@Atlanta II data center will feature 10 MW of critical power load and 66,667 sq ft of white floor space.

T5@IRELAND

The new T5@Ireland Facility, is located just five miles from Cork City and stationed conveniently over a global IP transit hub to keep you connected to North America and mainland Europe. The five largest fibre providers in Ireland will provide a direct connection to the campus, that is built with future expansion in mind.

T5@DALLAS III

In October last year, T5 Data Centers completed construction on the state-of-the-art T5@Dallas III on its Plano data center campus. The new greenfield, purpose-built data center is tenant ready and offers the same robust construction as the balance of the T5@Dallas campus, including a dedicated data center support team. The T5@Dallas campus is located in Plano's Legacy Business Park. The T5@Dallas III facility is a LEED Silver certified, concurrently maintainable data center with 94,400 sq ft of available data hall space and 10.75 MW of critical power.

T5@CHICAGO

In March of this year, T5 Data Centers completed construction on the state-of-the-art T5@Chicago located in Elk Grove Village, IL. The new purpose-built data center is tenant ready and offers the same robust construction as the balance of other T5 facilities, including a dedicated data center support team. The T5@Chicago facility is a LEED Certified, concurrently maintainable data center with approximately 70,000 sq ft of data hall space and 10 MW of critical power.

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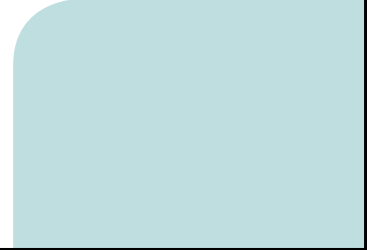
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**“WE UNDERSTAND THAT
‘LIVE PRODUCTION’ DATES
CAN BE THE DIFFERENCE
IN SUCCESS VS. FAILURE
FOR OUR CLIENTS. WE
MANAGE THE CLIENTS
SCHEDULE EXPECTATIONS
AND IS IF WERE OUR OWN
SCHEDULE”**

— Robbie Sovie, Senior Vice President,
Development, for T5 Construction
Services TalkTalk

BUDGET ADHEARENCE:

Focusing on the project budget is critical to T5CS because its critical to our client. As an owner and end user, T5 understands what it means to manage a budget from a client’s perspective. “We manage the client’s budget as we would manage our own budget,” Sovie says.

SCHEDULE ADHERANCE:

Just like the budget, schedule is important for various reasons. “We understand that ‘live production’



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dates can be the difference in success vs. failure for our Clients,” Sovies explains. “We manage the clients schedule expectations and is if were our own schedule.”

As somebody working at the epicentre of the data center space, Sovie says he is “unsurprised” by the prediction that the value of the market will surpass \$90bn by 2024, pointing out that just around half of the world’s population have internet access.

“There are billions of people who at some stage will get that access, so when you take that

into consideration alongside ever evolving technology, whether that be IoT or AI, it’s going to drive a lot of further capacity. You have to also consider that some of the older generation are not too tech-savvy, which is not going to be the case with generations to come. It’s just kind of natural evolution so unless servers get way more efficient that demand for data center space is just going to increase.”

As is, you’d expect, the demand for proven experts in the data centre construction field. ■



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