

The Formula for Success:

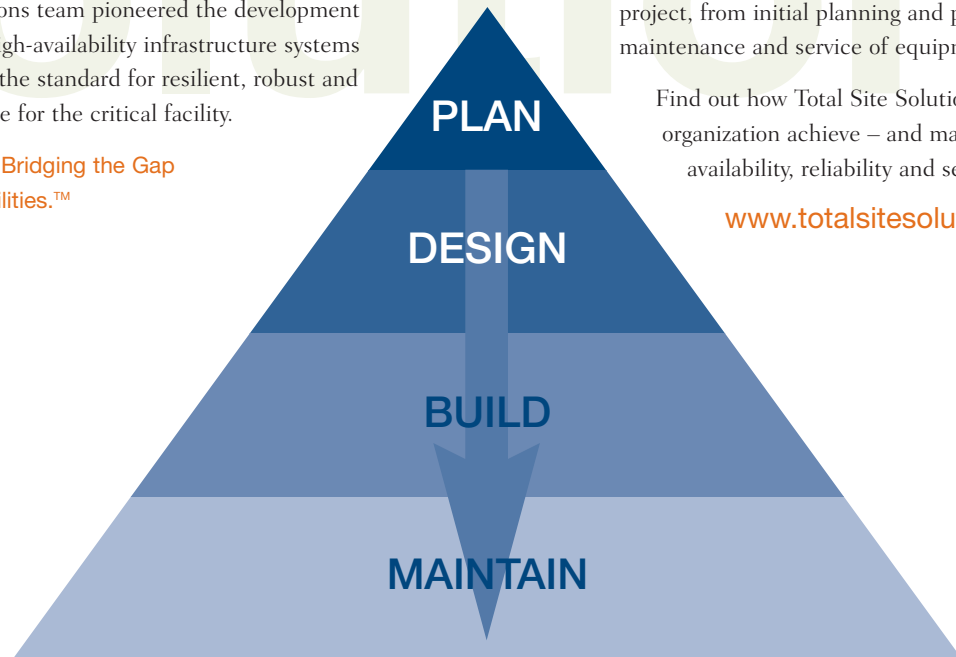
The mission-critical facility is a dynamic entity. It powers and protects, houses and supports an ever-changing force: information technology. While advances in, and increased reliance on, technology place greater demands on the facility and its infrastructure, risks from the outside world – climate, energy, terrorism, cybercrime – present a growing threat.

One company has been shaping the way facilities evolve to meet these changing demands: Total Site Solutions (TSS). Since 1978, the TSS team has charted the course for the integration of IT into the mission-critical facility.



The Total Site Solutions team pioneered the development and deployment of high-availability infrastructure systems and continues to set the standard for resilient, robust and scalable infrastructure for the critical facility.

Total Site Solutions, Bridging the Gap Between IT and Facilities.™



Mission-Critical Facilities + Systems

Plan. Design. Build. Maintain. Succeed.

Meeting the unique infrastructure needs of each facility and organization requires a blend of art and science. The art is in communication, orchestration, cooperation and innovation. The science is in the TSS Solution Path.

The TSS Solution Path

The Solution Path illustrates how Total Site Solutions' resources, experience and systems combine to support clients throughout the project lifecycle. Our models, methodologies, procedures and systems deliver unmatched expertise and provide our clients with the highest quality and most cost-effective services.

A proven process for program roll out, the Solution Path aligns project requirements with capabilities. Developed and refined by the TSS team since the 1980s, the Solution Path addresses each major phase of a critical facility project, from initial planning and programming, through maintenance and service of equipment.

Find out how Total Site Solutions can help your organization achieve – and maintain – maximum availability, reliability and security.

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mission-critical
solutions



Setting the standard
for resilient, robust + scalable
infrastructure for the mission-critical facility

Plan.

Uptime begins long before the first switch is turned, or button pushed. This is where the project receives its initial emphasis, motivation and direction. If the project starts in the wrong direction, success is difficult to achieve. However, when initial planning is performed properly, a successful project outcome is practically assured.

Total Site Solutions' planning services are structured to ensure that the facilities supporting your IT systems are configured to meet the availability requirements of your business, not just for today, but long into the future. Our growth modeling process is designed to project space, power and cooling requirements and ensure that facility systems are configured in coordination with IT hardware requirements. In this phase, we also establish project goals, set technical parameters and requirements, establish a preliminary budget and schedule, and determine project team members.



Design.

TSS design services provide a seamless transition from planning to the formal design engagement. Total Site Solutions' design and engineering experts create high-quality, cost-effective system design solutions that meet or exceed overall mission requirements.

Unlike architectural generalist firms, Total Site Solutions' in-house, professional design staff applies extensive, real-life experience in critical environmental, power, communications and security systems. TSS delivers precise engineering solutions that are real-world ready for the unique needs of the specialized facility.



Licensed professional mechanical, electrical and communications engineers participate throughout the project cycle. Total Site Solutions' engineers understand the distinct requirements of the mission-critical facility, and anticipate and solve difficulties that can adversely affect facility efficiency and project budgets. TSS design services also include provision of required stamped drawings, construction documents, specifications, overall project budget and schedule, and the necessary technical and program information needed to begin the construction effort.

Build.

TSS build services offer comprehensive design-build, construction and installation management solutions. TSS is a leader in the administration and oversight of design-build project delivery. Our experience in roles as both an owner's representative and member of the design-build contractor team gives us a unique understanding of, and appreciation for, these different perspectives.



Our core expertise in critical infrastructure, and a thorough understanding of how such infrastructure is delivered and the relevant construction processes, is key to delivering value to our clients. TSS personnel are well-versed in the best practices related to cost estimating, labor and equipment management, cost and schedule control, quality management, work process review and documentation, contract administration, change management and dispute resolution.

Maintain.

Virtually every major organization today relies on technologically-intensive facilities which require specialized mechanical and electrical systems, telecommunication networks and security systems. TSS' facilities maintenance offerings ensure 24/7/365 operation of the systems critical to sustaining online applications. The first key to success in proper facility operation is to commission the critical systems; this ensures that a mission-critical facility achieves maximum reliability, availability and maintainability.

TSS maintenance services begin with gaining a thorough understanding of the client's business, mission and facility objectives. Then, we inspect the facility and audit crucial systems, including mechanical, electrical, fire protection, communication and security components, along with the building envelope. Finally, we develop a customized service and maintenance program, including staffing services, based on customer-specific thresholds and requirements.



Succeed.

For the mission-critical facility, there is no fixed beginning or end. Change is constant. The mission-critical facility is either moving forward or the organization is left behind. To successfully empower your organization, your mission-critical facilities team must be positioned to enter and support your facility at any step of the process.

Total Site Solutions is there at every phase of the facility's evolution. We build synergy between legacy requirements and today's most advanced systems. And we anticipate the needs of tomorrow. Experience allows us to hit the ground running at any point in the process. And as each new technology, demand and risk develops, TSS continues to set the standard in mission-critical infrastructure.



The TSS Advantage

Total Site Solutions has planned, designed, built and maintained many of the world's most sophisticated, reliable and secure facilities. TSS has offices throughout the US, a state-of-the-art National Operations Center, and technical staff with the most advanced diagnostic tools and computer-aided facilities design, management and maintenance systems available.

The TSS team is comprised of experienced experts in IT and facilities. Our IT staff includes hardware planners, security consultants, telecommunications specialists, transition planners, and PMI-certified project managers. Our facilities staff includes registered architects, licensed electrical and mechanical engineers, construction managers, master electricians, certified technicians and estimators who are registered with such organizations as AIA, ASHRAE, ASME, BICSI and IEEE. Our staff is among the industry's most experienced, and certified with expertise in DoD, DCID, FIPS, UFC and homeland security design standards. In addition, VTC LLC (dba Total Site Solutions) can provide all services through GSA Schedule GS21F-0027T, and operates its own secure facility (verifiable by DISCO, facility CAGE Code 3HZ77).

What's more, as part of Fortress International Group, Inc., Total Site Solutions is backed by the financial resources of one of the nation's leading providers of mission-critical facility/homeland security solutions. Which means we have the ability to serve, support and even finance the world's most critical facilities.