



# Protecting Critical Infrastructure: Substation Physical Security

As power grids face increasing threats from vandalism, theft, and targeted attacks, substation security has never been more important. Compu Dynamics specializes in assessing and implementing robust physical security solutions to protect mission-critical infrastructure. Our industry-leading expertise ensures that electrical substations remain secure, operational, and resilient against evolving threats.

## The Importance of Physical Security

Substations are essential components of the power grid, yet they are frequently left vulnerable with minimal security measures. Many rely on simple chain-link fences, which offer little to no protection against:

- **Physical Attacks** – Small arms fire can easily disable transformers and switchgear, leading to prolonged outages.
- **Vandalism and Theft** – Copper wiring and valuable components are prime targets.
- **Unauthorized Access** – Unsecured substations increase the risk of sabotage and operational disruptions.
- **Natural Disasters** – Poorly protected infrastructure is more susceptible to storm damage and flooding.

## Why Compu Dynamics?

**Industry Expertise:** With years of experience securing substations and data centers, we understand the unique challenges of protecting critical infrastructure. Our expert team ensures security measures are effective and compliant with industry standards.

**Seamless Installation:** Our solutions are designed for quick deployment with minimal disruption, ensuring upgrades happen safely without power outages or operational delays.

**Cost-Effective Protection:** Investing in security now prevents costly damage, downtime, and equipment loss. Our solutions provide long-term protection, reducing future risks.

**Regulatory Compliance:** We ensure all security measures align with NERC CIP-014 and other regulations, keeping utilities compliant and protected against evolving threats.



## Let's Secure Your Infrastructure

Compu Dynamics provides a layered approach to substation security, incorporating both physical and surveillance-based protections to mitigate risks. Our key services include:

### Precast Concrete Security Walls:

We design and install UL 752 level 10-rated precast walls and gates that provide superior protection against small arms fire and vehicle ramming. These barriers are tailored to meet the height and security needs of each substation.

### Line-of-Sight Protection:

To prevent direct visibility to critical equipment, we install strategically placed barriers and structures that shield transformers and switchgear from external threats.

### Perimeter Hardening:

Our team installs vehicle wedge barriers, crash gates, and reinforced fencing to fortify perimeters. These deterrents prevent unauthorized access and reduce the risk of physical attacks.

### Advanced Surveillance Systems:

We integrate cutting-edge security technologies, including motion detectors, radar, and high-resolution CCTV cameras, to provide 24/7 monitoring and real-time threat detection.

### Access Control Systems:

Compu Dynamics deploys advanced access control solutions featuring multifactor authentication, biometric readers, and encrypted key card systems to ensure only authorized personnel can enter sensitive areas.

### Custom Mitigation Plans:

Our security specialists conduct thorough risk assessments and develop customized mitigation strategies to enhance the protection of each unique site.



## The Cost of Inaction:

A single substation attack can result in millions of dollars in damage, replacement costs, and service interruptions. Strengthening your security today prevents long-term operational and financial losses.

Compu Dynamics offers full-service security assessments, mitigation planning, and implementation to protect your critical infrastructure. **Contact our expert team today to schedule a consultation.**