



## Case Study Facts

**Location:** United States

**Industry:** Energy

**Timeframe:** 2021

**Cost Savings:** \$5M

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## Background

As America's largest generator of electricity from natural gas and geothermal resources, this Houston-based client uses advanced technologies to generate cost-effective power efficiently and sustainably. With a footprint in commercial, industrial, and residential operations and more than 35 years of experience, they represent a premier option for power in the US.

Though a leading provider of energy, the client's power plants were using old, outdated technology and desperately needed to modernize their security and core infrastructure. They set a five-year goal of updating their plants, then operating on legacy bonded T1 MPLS circuits, to Software Defined Networking, an approach to network management that enables dynamic, programmatically efficient network configuration to improve performance and monitoring, making it more like cloud computing than traditional network management and leveraging internet offloading and edge-based security. Each plant required a minimum of 50 Mbps, meaning fiber would need to be laid to each location.

The client's lack of bandwidth and remote plant sites stood in the way of that plan, though.

## Solution

The Caliber team set out to determine if the benefits of the upgrade justified the cost of bringing ethernet to each of the client's power plants. This meant determining a full budget, including the cost of the fiber builds to each plant, before making any recommendations to the client.

Once complete, each of the client's power plants had transitioned from MPLS Bonded T1 circuits to triple redundant dedicated internet access, cellular, and satellite SDWAN capabilities with 50 MB capacities. To further the security strategy, we leveraged internet offloading and edge-based security. This allowed us to move the client toward hyper-converged server technology and seamlessly over to the cloud in fewer than 15 months.

Caliber's update to the client's security and core infrastructure resulted in a year-over-year savings of **\$5M**.