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IT-640 Telecommunications and Networking

Milestone Three

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SNHU Energy Future Recommendations

**Introduction**

Following up on the earlier network review, SNHUEnergy, Inc. is looking to grow. The current setup works okay for now but has some holes, especially with security and how everything relies so much on the HQ. This paper covers the company's future communication needs, offers a simple plan for a better network, and includes a clear visual of what that future network might look like.

**Future Communication Needs**

As SNHUEnergy grows, it will need:

* Faster, more reliable connections between offices for calls and meetings.
* Stronger support for remote work.
* A network that can grow without slowing down.
* Backup systems to keep things running even if one part fails.
* Better protection for data and systems.

**Network Architecture Recommendation**

**Proposed Design**

The new plan includes:

* **SD-WAN:** Replacing old VPNs with smarter, more reliable SD-WAN connections.
* **Cloud services:** Moving apps like email and collaboration tools to the cloud.
* **Backup data center:** Setting up a second location or using cloud backup.
* **Zero trust security:** Tighter controls for who can access what.
* **Upgraded firewalls and monitoring:** Adding better firewalls and security tools at all sites.
* **Dedicated connections:** Using private, high-speed links where it makes sense.
* **Wi-Fi 6:** Upgrading office Wi-Fi for better speed and coverage.

**Why It’s Better:**

* **More reliable:** SD-WAN and better connections mean fewer dropped calls and faster data access.
* **Cloud ready:** Employees can access tools from anywhere without putting extra load on the HQ.
* **Safer:** Zero trust and upgraded firewalls help keep hackers out.
* **Always on:** Backups and failovers make sure the company stays online even if one site goes down.

A diagram of a fire safety system

AI-generated content may be incorrect.

**Citations**

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