



## Computer Equipment

### Save energy, money and space with thin client PC management

Thin client computing is a cost and space efficient approach to desktop computers that are used as an access point for server-based computing. It has fewer parts and requires fewer components to run, offering even more cost efficiency advantages. Thin client computing adopters are reporting huge cost savings, in addition to increased reliability and productivity.

In addition, thin clients are proven to be more reliable and easier to manage than PCs. They rely on the principles of server-based computing technology in which applications are installed, managed, supported and executed on the server—not on the PC.

#### Earn rebates for adding a virtual desktop infrastructure

Rebates are available for our electric business customers in Minnesota who install thin client or zero client devices.

- **Thin client:** \$10 per unit when you install 10 or more units.  
Thin clients are defined as including a small CPU, graphics coprocessor, RAM and local storage like a solid state hard drive, or simply flash memory, no operating system.
- **Zero client:** \$10 per unit when you install 10 or more units.  
Zero client computing is defined as no client-side processing or management; no CPU, no memory, no operating system, no drivers, no software and no moving parts.

#### Server-based computing offers many other benefits beyond simply saving costs.

**Reduced administration and end user support** – Thin clients are far simpler to manage. Administrators can perform upgrades, deploy patches, applications and virus updates solely on the terminal servers for thousands of users—without having to visit the individual workstations.

**Adding or replacing thin clients is far easier** – In a server-based computing environment, adding computers for new employees can be done in a matter of minutes. Also, should a thin client device fail, the computer can be restored in minutes simply by replacing the thin client device.

**Increased security: Less risk of viruses** – A server operating system is proven to be more secure than a desktop operating system. Thin clients do away with hard drives and administrators can restrict the access to USB sticks and CD ROMs. This prevents users from loading foreign applications onto the devices, resulting in increased security levels and virtually eliminating viruses. It is also a secure approach for working from home, as no corporate data is downloaded to virus prone home computers.

**Disaster recovery:** Data is more secure and easier to back up—If a terminal fails, important data isn't lost since it is stored on the server. Having a centralized storage system allows for faster and easier backups as well as efficient disaster recovery.



#### What are thin clients?

- A thin client is a general term for a device that relies on a server to operate.
- Thin clients include a display device, keyboard, mouse and the basic processing power to interact with the server.
- A thin client often does not contain local storage and requires little processing resources.
- Thin clients present a user with the same look and feel of a traditional desktop and can run any software that allows for easy integration with the existing IT solution.

#### Call now to start saving

To maximize your energy-saving potential call an energy efficiency specialist at **855.839.8862** or contact your account manager.

**Lower power consumption:** Save on electricity and heat generation—A thin client device uses only a third of the power a that PC uses and generates far less heat and noise, resulting in substantial savings.

**Easy licensing management and conformance to legal requirements:** Due to the centralization, software licensing becomes far easier to monitor and manage. Only the servers need to be audited and not the thin client itself.



Please see the Data Centers program application for complete rebate found at **[xcelenergy.com/DataCenters](https://xcelenergy.com/DataCenters)**. Call an energy efficiency specialist at **855.839.8862** or contact your account manager to learn more ways you can save energy and earn rebates for other computing environments.