

Green IT Checklist

Actionable Efficiency Items

Monitor & Quantify

- Create metrics and goals for efficiency improvements
 - Communicate goals with IT staff
- Train users on program, behavioral changes
- Install/enable hardware monitoring on important IT assets
- Contact IT Services for What's Up Gold onboarding (517) 432-6200
- Complete Spartan Green Certification in October
 - <http://bespartangreen.msu.edu>

Data Center & Server Room Cooling

- Verify server room directional airflow on front of racks
 - Contact IPF for design/retrofit assistance (517) 353-1760
- Increase HVAC set point to upper bounds of ASHRAE recommendation: 80°F
- Contact vendor for servicing schedule and recommendations
 - Contact IPF for HVAC servicing (517) 353-1760
- Create and execute a maintenance schedule for HVAC assets
- Calculate PUE for server room/data center
 - Contact IPF for assistance with monitoring equipment (517) 353-1760

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Hardware Selection & Replacement

- Review hardware purchasing options
 - Use smaller form factor when available
 - Consider lower TDP processors when an option
 - Opt for higher-efficiency power supplies
 - Use hybrid 2.5" drives or SSDs over 3.5" drives
 - Opt for on-board graphics when possible
 - Avoid or reduce external power supplies
- Enable hardware power management features
- Replace any CRT screens, consider replacing older LCDs

IT Optimization

- Virtualize physical systems
- Audit and decommission unneeded systems
- Explore hosting/virtualization services with IT Services (517) 432-6200
- Consolidate server storage on NAS appliances
- Review workstation configuration
 - Verify sleep/S3 states are supported in BIOS
 - Verify Speedstep/Quiet'n'Cool/throttling features are enabled
 - Test compatibility of sleep/S3 with software
 - Configure system and monitor sleep timeouts via Group Policy and/or scripts
- Remote access solutions
 - Terminal server for remote access, leave workstations off
 - Implement Wake on LAN (WoL) to allow remote waking of workstations
 - Deploy Virtual Desktop (VDI) solution for always-on workstation access
- Printer Optimization
 - Default printers to duplexing/two-sided printing
 - Reduce margins on Normal.dotm Word template