

Electrical Design Services

Renew your electrical systems to ensure reliability, safety, and efficiency



Like any system, electrical equipment wears out over time and needs to be renewed to remain durable, efficient and capable of safeguarding occupants. An up-to-date electrical system not only improves system reliability, it also increases productivity and comfort for building occupants.

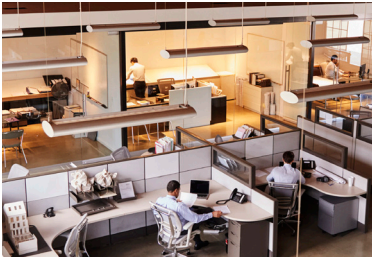
Prism offers our customers over 30 years of industry experience to help renew your building systems and set them up for future growth. Our team of engineers, project managers and subject matter experts stay on top of design trends, technology, utility requirements, and code standards so that we can identify long-term needs and provide cost-effective options.

Our comprehensive approach includes:

1. **Analysis and feasibility studies** of electrical systems to provide good, better and best options for consideration.
2. **Unbiased advice** on products, codes and industry design trends.
3. **Design and tender** documentation for competitive pricing of electrical systems.
4. **Construction support** that includes project management assistance for all phases through to completion.
5. **Monitoring and tracking** of results and performance.



Services



LIGHTING AND SPACE UPGRADES

- **Lighting systems design:** optimize for occupant comfort, aesthetics, and efficiency while ensuring compliance with code requirements and competitive pricing.
- **Space renovations:** design to enhance occupant productivity and flexibility.
- **Data and communications:** ensure data and voice communications needs will be met with the space upgrade.



INFRASTRUCTURE SYSTEM UPGRADES

- **Electrical distribution:** ensure equipment will meet current and future requirements.
- **Emergency generator:** be assured your equipment is selected appropriately and can be relied on for essential services.
- **Fire alarm:** bring your system up to current code and standards for life safety.



CLIMATE CHANGE MITIGATION AND ADAPTATION

- **Lighting controls:** incorporate centralized lighting, daylighting, and occupancy control systems to optimize lighting use and reduce energy use.
- **Renewable energy:** evaluate the use of solar power utilizing photovoltaic technology.
- **Electrification:** convert the energy source to low carbon electricity.
- **EV charging:** infrastructure design and implementation of EV charging stations.
- **Adaptation to climate change:** prepare systems for the anticipated impacts of climate change through risk assessments and implementation of adaptation strategies.



OPERATIONS

- **Power quality studies:** identify weaknesses in your system to reduce vulnerability and energy waste.
- **Metering and submetering:** provide transparency for energy usage to support energy reductions.
- **Preventative maintenance:** mitigate the risk of equipment failures with detailed reviews and testing, infrared thermography and system recommissioning.
- **Electrical system evaluation:** conduct building-level condition assessments to provide a comprehensive overview of how the current system is performing and assist in planning for replacements.

We work with the following sectors:

Commercial buildings,
including retail and
hospitality

Institutional and
government facilities

Multi-unit residential
buildings

Industrial and agricultural
operations



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From design to implementation, we provide energy management, electrical and mechanical engineering, utility monitoring and sustainability consulting to help our clients create a greener, more energy efficient world.

www.prismengineering.com