

# **Load Management & Power Planning**

## **Electrical Capacity Planning for Modern Properties**

Modern residential and commercial properties place increasing demands on electrical systems. EV chargers, heat pumps, induction cooking, solar, battery storage, and advanced audio or networked systems often exceed the capacity of existing electrical services if not properly planned.

Mirkovic Electric provides load management and power planning services designed to safely integrate new electrical loads while minimizing unnecessary service upgrades and avoiding permitting or inspection issues.

### **What This Service Includes**

- NEC-compliant electrical load calculations
- Evaluation of existing service capacity (100A, 125A, 200A and above)
- Identification of system constraints and limiting factors
- EV charger load management (Tesla Neurio and load-sharing systems)
- Smart load shedding and prioritization strategies
- Coordination between EV charging, HVAC, and other major electrical loads
- Planning to support future electrical expansion
- Determination of when a panel or service upgrade is truly required
- Alternatives to full service upgrades when feasible
- Integration with smart panels and energy monitoring systems

### **Applications**

- EV charger installations in capacity-limited properties
- Solar- and battery-ready electrical planning
- Residential remodels and additions
- Multi-unit and mixed-use properties
- Commercial tenant improvements
- Pre-construction feasibility assessments

### **Utility & Permitting Coordination**

When required, load management and power planning services may include documentation and coordination to support permit submittals and utility requirements, including load documentation, service capacity letters, PG&E; coordination, and inspection support.

### **Why This Matters**

Improper planning can lead to failed inspections, project delays, and unnecessary service upgrades. Our planning-first approach allows electrical installations to proceed efficiently, compliantly, and with long-term reliability in mind.

### **Who This Service Is For**

This service is intended for property owners, business owners, architects, and contractors who need to add significant electrical loads, require permit-ready documentation, or want to avoid unnecessary upgrades while planning for future electrical needs.