

# Eaton's power factor correction services and equipment program

Take advantage of this program to begin saving now!

## Program specifics

Take advantage of discounted service rates and extended warranty period with Eaton's power factor correction services and equipment program—covering your project from conception to completion.

### Perform engineering study

The intent of a power factor correction study is to perform an engineering analysis to determine the optimal kVAR sizing of power factor correction equipment, including total kVAR compensation, step sizing and placement. Eaton's power systems engineering team is one of the largest and most experienced teams of power system engineers in the industry, with industry-standard software and advanced modeling and analysis capabilities. The team provides extensive skills and experience in power system analysis and design including power system studies, substation design and forensic investigations.

### Provide power capacitors to meet study recommendations

Upon completion of study, Eaton's Cooper Power series power capacitor group will prepare a proposal for the required power factor correction equipment. An extended warranty will be provided with purchase of the proposed equipment.

Eaton's power capacitor portfolio is designed and manufactured domestically. This portfolio consists of:

- **Capacitor units:** Medium-voltage, single-phase, all-film, unfused and internally fused capacitor units. These units feature extended-foil elements, solderless connections and laser-cut aluminum foil in a 409 stainless steel, robotically welded tank.
- **Capacitor switches:** Edison capacitor and Type NR oil switches are primarily used for switching capacitor currents, but could also be used for inductive applications. The NR switch is motor-operated, whereas the Edison capacitor switch is solenoid-operated. Both switches include an integral operating handle for position indication or manual operation.
- **Capacitor banks:** A capacitor bank is an array of multiple capacitor units combined in series and parallel connections to meet overall system needs. Banks are available in externally fused, fuseless or internally fused designs. Available bank configurations include pole-mounted, metal-enclosed, mobile, open air, and specialty applications.

This team of power capacitor experts will design a custom solution to improve the existing system based on the specific applications needs, including but not limited to:

- Addition of controls, relays, switches—for a more intelligent and controllable system
- Overhaul of aged component, with newer improved reliability and technology
- Additional capacitance by incorporating supplemental banks to support growing system demand
- Specialized equipment to address underlying issues such as harmonic filtration

### Start-up and commissioning services

Eaton's engineering services provides start-up and commissioning for substation capacitors as well as capacitor control programming, which further extends the warranty and includes an additional discount off standard service rates. Actual cost of services and warranty extension window will be provided in quote form.

Eaton's power capacitor start-up and commissioning services include:

- New construction support
- Acceptance testing
- Switching, grounding, control and protection device testing and verification
- System-wide commissioning
- Site supervision of equipment handling, installation, connection and energizing
- Control training

For more information regarding Eaton's capacitors and engineering services contact your local Eaton sales representative and visit [Eaton.com/pse](https://www.eaton.com/pse) and [Eaton.com/capacitors](https://www.eaton.com/capacitors)



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