

INDUSTRIAL POWER SYSTEM ENGINEERING



MULTIDISCIPLINARY CAPABILITIES FOR A RELIABLE, RESILIENT INDUSTRIAL POWER SYSTEM

An **industrial power system** is crucial to the activities of oil and gas, petrochemical, refining, and manufacturing facilities. To meet production goals under ever-increasing demand and ever-changing regulations, processing and plant operators need modern, efficient power systems. Audubon combines engineering proficiency and experience with best-in-class technologies to deliver an industrial power system you can rely on—keeping your operations powered, resilient, and secure.

Audubon's broad engineering expertise covers [feasibility and concept planning](#), [detailed design](#), material and equipment verification, [fabrication](#), [startup](#), and [project management](#). Our power engineering team collaborates with you to design high-performance [controls](#), reliable backup power, and protective relays customized for your facility. For both greenfield and brownfield projects, our engineers have the insight and resources to manage the unique complexities of your system and solve even the most challenging problems.

Precise risk assessments & specifications development for complex equipment

Above all else, Audubon prioritizes [safety](#). To identify hazards and [mitigate risks](#), we run arc flash studies and analyze harmonics, load flow, short circuits, and motor starting. Our engineers also develop and produce precise specifications for complex equipment such as switchgears, generators, transformers, motor control centers, and variable frequency drives. By ensuring a constant power supply with integrated controls and safe functioning, our power system solutions enable you to focus on what matters most in your facility—efficient operations and maximum production.

Industrial power applications

- [Oil & gas](#) processing
- [Petrochemical & refining](#) plants
- [Food & beverage](#) manufacturing
- [Metals](#) production

Power system analysis

- Load flow
- Short circuit
- Harmonic
- Protection & coordination
- Dynamic motor starting
- Arc flash studies

Power system engineering

- Feasibility studies & conceptual design
- Front-end engineering & design (FEED)
- Detailed engineering & design
- [Owner's engineering](#)

Engineering support services

- Major equipment specifications & selection
- Generator control & transfer
- Motor control
- Power management & power factor correction
- Harmonic filtering
- Relay settings development

