



# BRISMEK

We offer a range of services to meet your **POWER SYSTEM** needs



# Power System Studies

---

## Load Flow Analysis (Power Flow Study)

Optimise the flow of electrical power throughout your building with Load Flow Analysis. This study helps us identify potential problems like voltage drops, power losses, and overloading in the electrical distribution network.

- Assess voltage stability at various load levels
- Ensure system reliability under different operating conditions
- Identify and resolve system inefficiencies

## Short Circuit Analysis

Short Circuit Studies are essential for determining the impact of fault conditions on your electrical system. Brismek's detailed analysis helps in selecting the right equipment and protection devices for your system.

- Identify fault currents at various points of the system
- Determine ratings for protective devices (circuit breakers, fuses, etc.)
- Ensure compliance with safety standards

## Protection Coordination Study

Protection coordination ensures that electrical faults are isolated quickly and safely, minimising downtime and damage to equipment. Our Protection Coordination Studies help in setting the correct time and current settings for protective devices.

- Optimise protective device settings for efficient fault clearance
- Minimise risk of damage to equipment
- Improve system reliability and safety

## Transient Stability Analysis

Brismek conducts Transient Stability Analysis to evaluate the system's response to sudden disturbances, such as equipment failures or power outages. This study ensures that your power system can recover quickly from unexpected events.

- Assess the system's ability to recover after faults or disturbances
- Minimise risk of cascading failures and blackouts
- Optimise the performance of generators and protective systems

## Arc Flash Analysis

Arc Flash Studies are critical for determining the potential risks and hazards of electrical arc flash incidents. We help in assessing arc flash hazards and providing recommendations for safety measures such as PPE (Personal Protective Equipment) requirements.

## Harmonic Analysis

Our Harmonic Analysis identifies voltage and current distortion caused by non-linear loads. Harmonics can cause overheating of transformers, motors, and other equipment, leading to increased operational costs and system failures.

- Identify sources of harmonic distortion in your system
- Recommend solutions to mitigate harmonic problems
- Improve overall power quality and system efficiency

## Load Forecasting

Brismek provides Load Forecasting services to predict future power demand for your building or facility. Accurate load forecasting ensures that your power system can handle growth without disruptions.

- Predict future load demands and growth patterns
- Design systems that can accommodate future needs
- Plan for energy efficiency and cost-effective operations

## Power System Design and Engineering

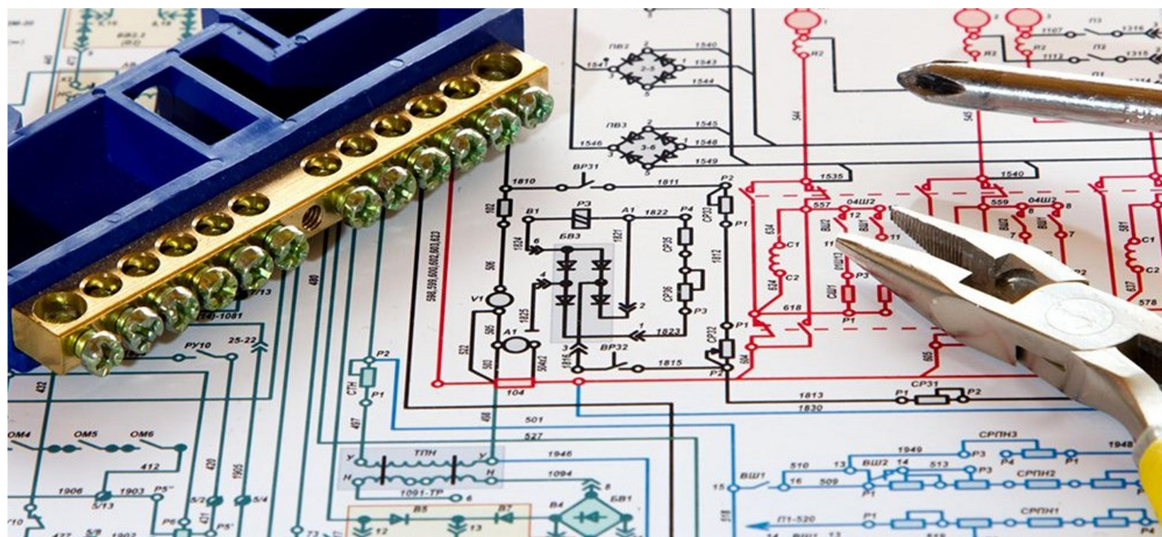
Our expert consultants provide end-to-end solutions for Power System Design. Whether you're constructing a new facility or upgrading an existing one, we ensure your power system is designed for optimal efficiency and future scalability.

- Custom power system designs for commercial and industrial applications
- Integration of renewable energy solutions (solar, wind, etc.)
- Energy-efficient equipment selection and specification
- Compliance with local regulations and industry standards

## Power System Consultancy

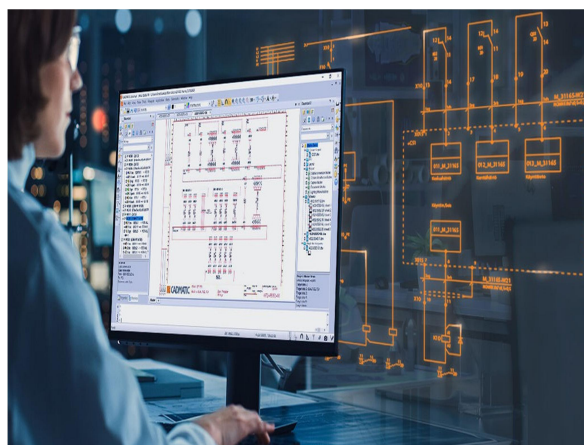
### Why Choose Brismek for Power System Studies?

- **Experienced Engineers:** Our team of expert engineers has years of experience providing power system studies across various industries.
- **Customised Solutions:** We tailor our studies to meet the unique needs of your building, equipment, and operations.
- **Compliance Assurance:** We ensure all our studies comply with industry standards and local regulations.
- **State-of-the-Art Tools:** We use advanced simulation tools and software to deliver the most accurate results.
- **Improved Efficiency:** Our studies help you optimise energy use, reduce costs, and increase the reliability of your power systems



## Integrated Software Solutions

At Brismek, we leverage a comprehensive suite of integrated software tools and cutting-edge technologies to deliver exceptional power system solutions to our clients. By utilising advanced systems like SCADA, EMS, and DMS, we ensure real-time monitoring and seamless control across power generation, transmission, and distribution networks. Our expertise in grid optimisation, renewable energy integration, and predictive maintenance allows us to enhance efficiency and reliability while reducing operational costs. Additionally, we employ AI-driven forecasting and dynamic simulation to anticipate system behaviour, ensuring optimal performance and minimising disruptions. With a strong focus on cybersecurity, asset management, and compliance, Brismek provides innovative, secure, and sustainable energy solutions that meet the evolving demands of modern power systems.



## Green Energy Solutions

---

### Solar Power System Design and Installation

We provide customised solar power system designs that meet the specific energy needs of your commercial or industrial building. Our experts ensure that your system is optimised for maximum efficiency, taking into account factors like energy consumption, location, and roof space.

- Tailored solar power designs based on energy usage and system capacity
- Site assessment to determine the best placement and panel orientation
- Full installation of solar panels, inverters, and other system components
- Compliance with all local building codes and regulations

### Solar Panel Maintenance and Monitoring

To ensure your solar power system operates at peak performance, we offer comprehensive solar panel maintenance and monitoring services. Regular maintenance extends the lifespan of your system and maximizes energy production.

- Routine cleaning and inspection of solar panels and inverters
- Performance monitoring to detect and address issues proactively
- Monitoring system for real-time energy production and system health
- Performance optimisation to maintain efficiency throughout the year

### Solar Energy Storage Solutions

Maximise the benefits of your solar energy by storing excess power with energy storage systems. Brismek offers state-of-the-art battery storage solutions to ensure you have access to clean energy even when the sun isn't shining.

- Design and install solar battery systems for energy storage
- Maximise self-consumption and minimise reliance on grid power
- Provide backup power during outages and peak demand times
- Integration with solar panels for seamless energy management

### Energy Efficiency Audits and Solar Integration

Our Energy Efficiency Audits assess your building's energy consumption and identify opportunities to integrate solar power and other energy-saving technologies. By combining solar power with energy efficiency improvements, we help you reduce operating costs and carbon emissions.

- Comprehensive energy audits to analyse energy usage
- Integration of solar power into existing systems for greater efficiency
- Recommendations for energy-saving upgrades (LED lighting, insulation, etc.)
- Customised solutions for reducing overall energy consumption

Green Energy Solutions



**BRISMEK POWER TECHNOLOGIES**  
F151, NPX , SECTOR 153 NOIDA 201310  
[www.brismek.com](http://www.brismek.com)



**BRISMEK**



**BRISMEK**

**BRISMEK SAFETY | BRISMEK POWER**

**TRUSTED BY**

