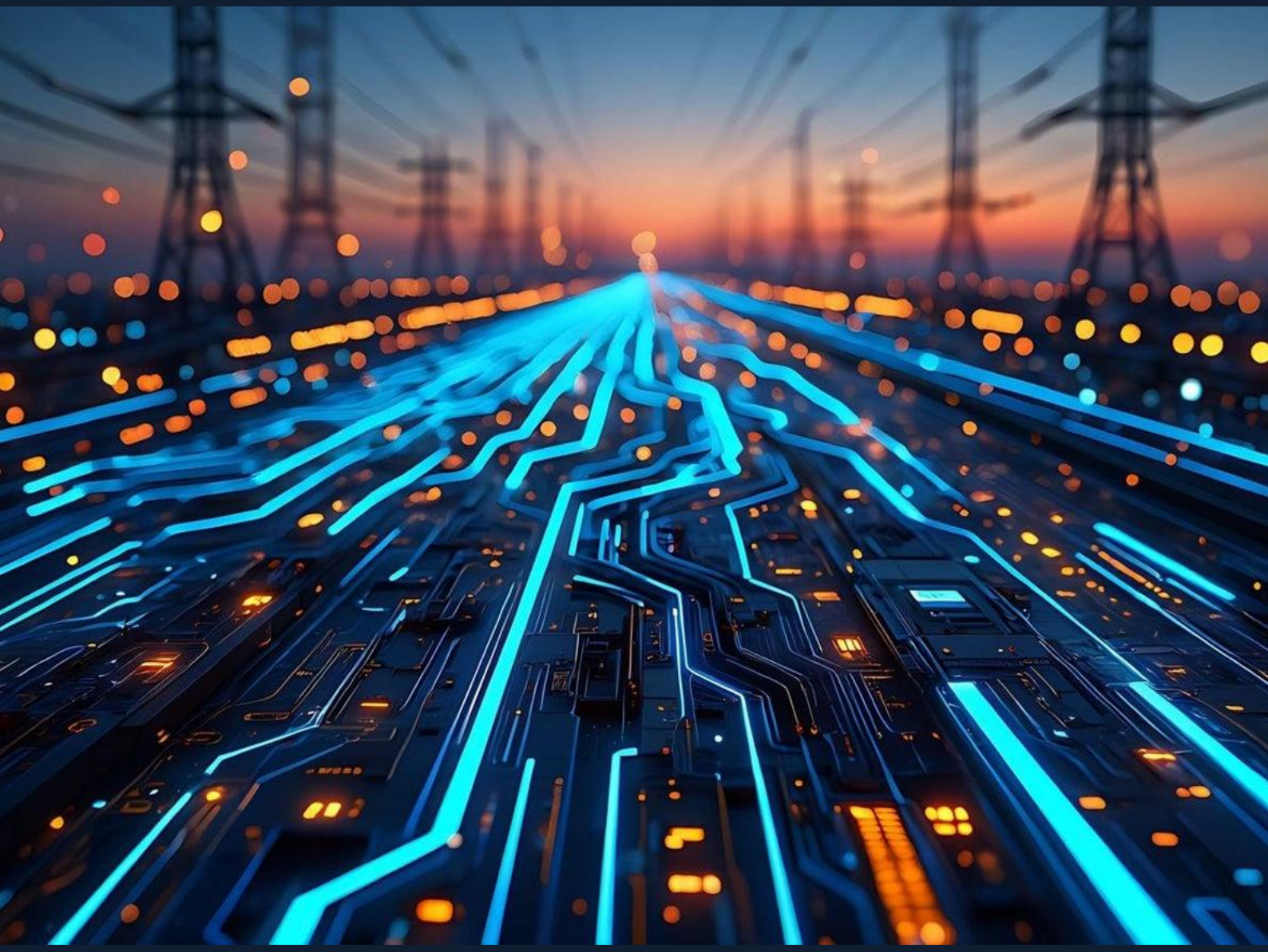

Power under control.

BUILDING ELECTRICAL ENGINEERING

www.iebat.fr

2026 edition

Engineering precision. Rigorous commitment.

A vision of electrical engineering that combines technical expertise with practical site experience, project control and anticipation of future needs. We apply our expertise to the design of reliable, efficient, durable and adaptable installations, placing the quality of our support and our clients' trust at the heart of our approach.



Committed electrical engineering, by your side since 2017

Founded in 2017, I.E.BAT — Ingénierie Électrique du Bâtiment — brings together electrical engineers and specialists with more than 20 years of experience, gained both on site and in engineering design offices. This combined expertise enables us to connect technical design skills with an understanding of operational realities.

Designing today, anticipating tomorrow

We design durable, adaptable electrical installations, considering future needs from the earliest design stages. Our approach anticipates changes in use, technology and energy demand to ensure that installations remain adaptable throughout their life cycle.

Technical rigour as our guiding principle

We place technical standards, design accuracy and the quality of our support at the heart of every assignment. Our commitment is to develop reliable, coherent and well-controlled solutions that reconcile each project's technical, regulatory, economic and operational requirements.

Your ambitions. Our engineering.

From initial planning to project handover, I.E.BAT supports clients at every stage of their projects, providing engineering services tailored to their needs, ambitions and constraints.



Analyse, advise and guide – AMO

We help clients define their needs and strategic choices through consultancy, technical client advisory, audits, diagnostics, technical briefing and feasibility studies. Our approach identifies the most appropriate solutions from a technical, economic and operational perspective.

Design, size and control – MOE

We design and size electrical installations, from initial concepts through to contractor tendering. Our services cover all the technical, regulatory and economic studies needed to deliver projects in accordance with the client's requirements.

Support, supervise and deliver – MOEX

We support project delivery through contractor design review (VISA), technical construction supervision, compliance checks and assistance with acceptance and handover. We also work alongside architects, engineering consultancies, contractors and consortia on design-and-build and integrated contracts.

Energy, from source to use.

I.E.BAT designs and sizes electrical architectures suited to each project's needs and requirements, from connection to high-voltage grids through to final distribution. Our expertise supports reliability, performance, continuity of service and the ability to adapt installations over time.



Mastering power infrastructure

We design and size high-voltage infrastructure: public grid connections, incoming supply and transformer substations, and HV and MV distribution architectures. Our approach addresses availability, secure supply, redundancy and changing power requirements, particularly for industrial sites and critical infrastructure.

Designing efficient electrical architectures

We design low-voltage electrical installations suited to building uses and operating constraints. Our services include power demand assessments, sizing studies, calculation reports, distribution architectures, protection coordination and selectivity studies, and the design of lighting and motive power installations. We pay particular attention to cost control, maintainability and future adaptability.

Ensuring power availability

We study and design electrical architectures that meet requirements for continuity of service and security of supply. Our expertise covers normal and standby networks, generator sets, uninterruptible power supplies, safety circuits and redundancy arrangements. Each architecture is assessed against the criticality of the uses, operating constraints and availability targets specific to the project.

Connect. Communicate. Adapt.

I.E.BAT designs and sizes ELV architectures suited to buildings' communication, connectivity and operational needs. Our approach focuses on reliable, efficient and adaptable infrastructure that can support changing uses and evolving technologies.



Designing durable digital infrastructure

We design and size voice, data and image architectures (VDI), including copper and fibre-optic networks, technical rooms, patching cabinets, communication backbones and links between buildings. Our expertise addresses availability, redundancy, maintainability and the adaptability of digital infrastructure, taking account of users' current and future needs.

Adapting technologies to users' needs

We design communication systems suited to the characteristics and operating constraints of each environment. Our expertise covers Wi-Fi infrastructure, telephony, intercoms, public address systems, time distribution, nurse call systems and communication systems specific to industrial, hospital and commercial activities. We favour coherent, interoperable architectures that can accommodate changes in use.

Managing the architecture, from design to handover

We support clients at every stage of their projects, from needs analysis through to acceptance of the installations. Our services include feasibility studies, ELV and voice/data/image architecture design, schematic diagrams, infrastructure sizing, technical specifications, assistance with contractor tendering and verification of installation tests and performance.

Anticipate. Protect. Safeguard.

We design fire safety systems suited to each building’s risks, uses and regulatory requirements.



Defining a coherent fire safety architecture

We analyse regulatory requirements and define fire safety system (SSI) categories, fire detection architectures, manual call points and fire safety control systems, together with the equipment needed to protect people.

Coordinating fire safety responses

We study compartmentation, smoke control and evacuation functions, and interfaces with building services. Our approach takes account of operating constraints and fire safety response scenarios.

Supporting design and acceptance

Our services include zoning, schematic diagrams, functional analyses, technical specifications, interface coordination and assistance with testing and acceptance, according to the scope of the assignment.

Control. Detect. Protect.

We design security architectures suited to each site’s risks, movements of people and goods, and operating constraints.



Controlling access

We define access control architectures, door equipment, access rights management principles and interfaces with other building systems.

Detecting and monitoring

We study intrusion detection and video surveillance systems (VSS), from analysing the areas to be protected through to specifying equipment, networks and recording capacity.

Integrating and supervising

Our services include architecture studies, schematic diagrams, technical specifications and assistance with tendering and testing, taking account of confidentiality and operational requirements.

Supervise. Control. Optimise.

We design building management architectures that improve understanding, control and optimisation of building systems.



Designing supervisory control

We define BMS architectures, automation, communication protocols and point lists, prioritising interoperability and future adaptability.

Measuring and optimising consumption

We develop energy metering plans and consumption monitoring principles to identify opportunities for optimisation and adapt control strategies to building use.

Supporting performance

We analyse applicable requirements, including France’s BACS decree and Éco Énergie Tertiaire scheme, and support projects with functional specifications, technical studies and assistance with testing and bringing systems into operation.

Combining performance, energy sufficiency and resilience

We support the energy transition through studies tailored to each site’s needs, electrical capacity and constraints.



Photovoltaics — generating power and value

We assess the generation potential of roofs and solar canopies, installation sizing, self-consumption scenarios, grid connections and electrical protection.

Electric mobility — anticipating demand

We define EV charging infrastructure, pre-installation requirements, charging power levels, distribution architectures and dynamic load management principles.

Informing investment decisions

Our services include technical and economic feasibility studies, comparative scenarios, power demand assessments, drawings, schematic diagrams and tender documents, together with assistance at acceptance and handover.

Assess. Improve reliability. Sustain.

We help owners and operators understand their electrical assets, improve their reliability and modernise them.



Assessing existing installations

We carry out surveys and technical audits to assess installation condition, ageing, obsolescence, risks and departures from regulatory requirements.

Preserving operational continuity

We analyse equipment criticality, availability and maintainability. We propose solutions and phased works compatible with the constraints of occupied sites, together with technical support for operation and maintenance.

Anticipating changes to your assets

We develop electrical master plans, refurbishment scenarios and investment programmes that incorporate spare power capacity, future extensions and changes in use.

Every sector. Its own demands.

We adapt our engineering to the specific requirements of each environment, taking account of uses, regulatory constraints and operational needs.



Industry and healthcare

HV and MV infrastructure, industrial processes, hospitals and health and social care facilities: we study electrical architectures in relation to power demand, availability and continuity of service.

Commercial buildings, public facilities and heritage

Offices, hotels, education, early childhood facilities and heritage buildings: we design installations that address safety, comfort, flexibility and long-term durability.

Mobility and the energy transition

Car parks, charging infrastructure, photovoltaics and installation upgrades: we support energy transformation projects with studies and solutions adapted to site constraints.

I.E.BAT



Design with precision.
Support with exacting standards.

Preparing a study, assessment, tender or project?
Tell us what you need.

www.iebat.fr

Building electrical engineering

contact@iebat.fr