

Catalogue | 2024

Design, Supervision, Installation

ELECTRIC POWER SYSTEMS CALCULATION HANDBOOK SMART SYSTEMS DATA CENTERS



Mandyai, co.
Engineering Group



OFFICE

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BRANCH NO. 1: Way 4103, Al Khuwair, Muscat, OMAN
T E L: +968 767 87584

BRANCH NO. 2: Iranian Center, 1st Alley, North Golafshan Street, Shahrake Gharb, IRAN
T E L: +98912 208 7578

SINCE MAY 2012



Table of Contents

MANDYAI	2
Electric Power Systems	4
Calculation Handbook	8
Smart Building / Smart Management / BMS	14
Data Centers	18



MANDYAI Since 2012
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AT A GLANCE

MANDYAI COMPANY, with 12 years of experience, is a comprehensive solution provider in electric power systems .

MANDYAI has established as a versatile and reliable service provider in the fields of design, supervise, installation of electric power systems and its facilities. The MANDYAI SERVICES are categorized into four main departments:

- 1- Electric Power Systems
- 2- Calculation Handbook
- 3- Smart Buildings / Smart Managements / BMS
- 4- Datacenters

The vision of MANDYAI ENGINEERING GROUP is to become a global leader in the power and automation sector by consistently providing exceptional services, maintaining high-quality standards and adopting cutting-edge technology. Our mission is to create sustainable, eco-friendly, and functional spaces while enhancing the living and working experiences of clients.

Dr. Maryam Saremi
CBO & Cofounder of
MANDYAI



Eng. Amir Seraji
CEO & Cofounder of
MANDYAI





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ELECTRIC POWER SYSTEMS

Electrical systems in buildings are critical infrastructure that provide power, lighting, smart building and various other essential functions.

The MANDYAI TEAM would provide design, supervision and installation of a building's electrical systems fully complemented with relevant building codes and safety standards.

The MANDYAI SERVICES in electrical power systems are design, supervision and installation of normal and emergency power systems in:

- Residential Buildings
- Commercial Buildings
- Offices
- Industrial buildings and plants
- General Purpose Buildings
- Vital and Special Condition Buildings

“Our mission is collaboration of experienced engineers to ensure the best possible design and structure for any purposed space.”

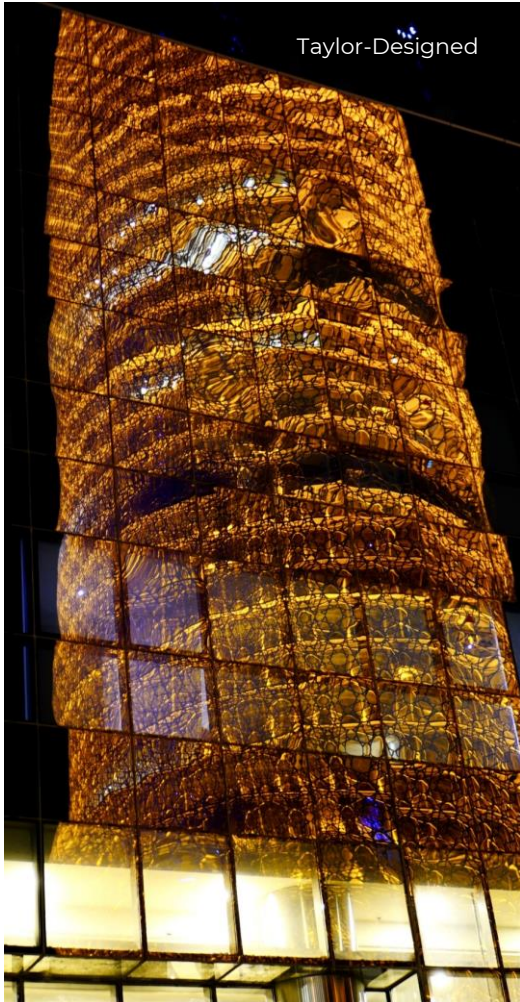




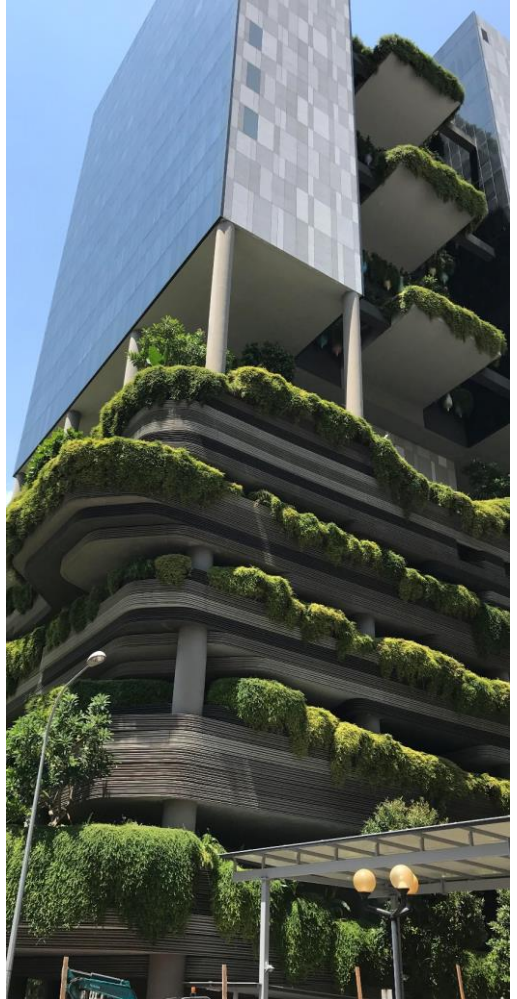
Luxurious Lighting

Residential Building

Houses
Homes and Villas
Complex Buildings



Taylor-Designed



Office / Commercial Building

Shopping Centers
Hotels and Inns
Banks
Restaurants and Café
Hospitals
Universities and Research Centers



Safety Connection



Reliable and Uninterruptable Electricity



Environment Compliant

Industrial Building

Factories
Factory Shed
Ware House
Logistic Centers



Zero Emission



CALCULATION HANDBOOK



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Electrical calculation handbooks are comprehensive reference guides that provide the formulas, methods and data needed to perform various electrical calculations.

The MANDYAI TEAM calculate a handbook as an essential tool for electrical engineers, technicians and professionals involved in the design, installation and maintenance of electrical systems.

The MANDYAI SERVICES in electrical engineering calculation:

- Load Determination
- Coincidence, Diversity, Demand Factor
- Voltage Drop
- Over Voltage, Short Circuits, Electricity Shock
- Grounding and Surge Protection Systems
- Protection Systems
- Electro Magnetic Interference
- Emergency and Safety Power Systems

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Determination of Loads/ Coincidence Factor



Accurate Determination Assures Steadiness.

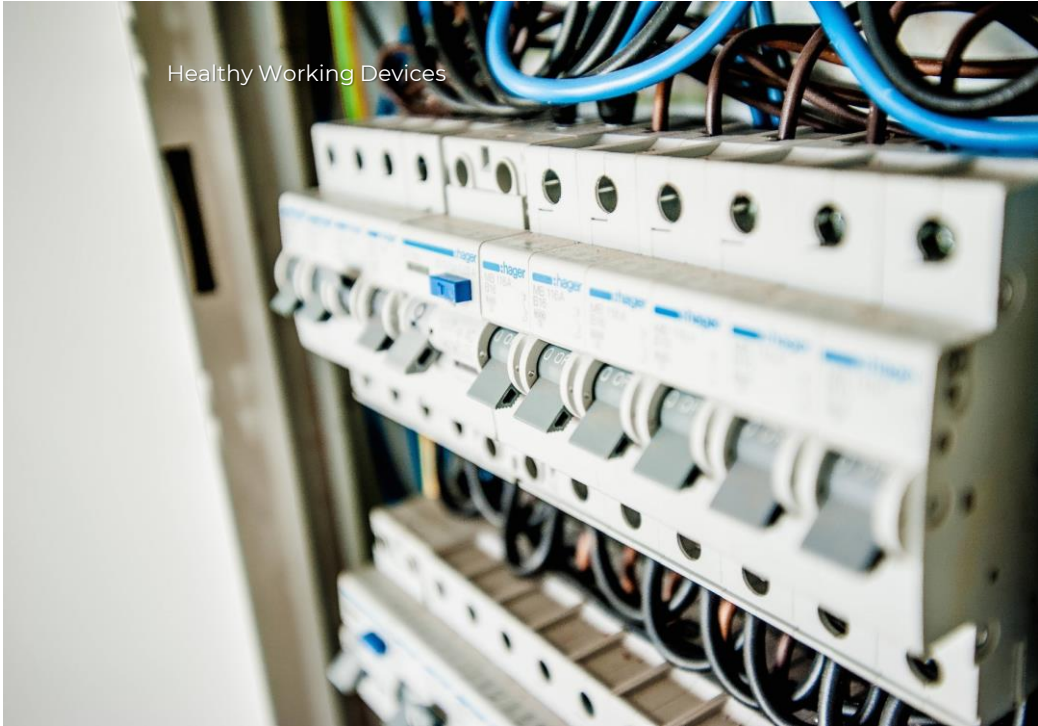
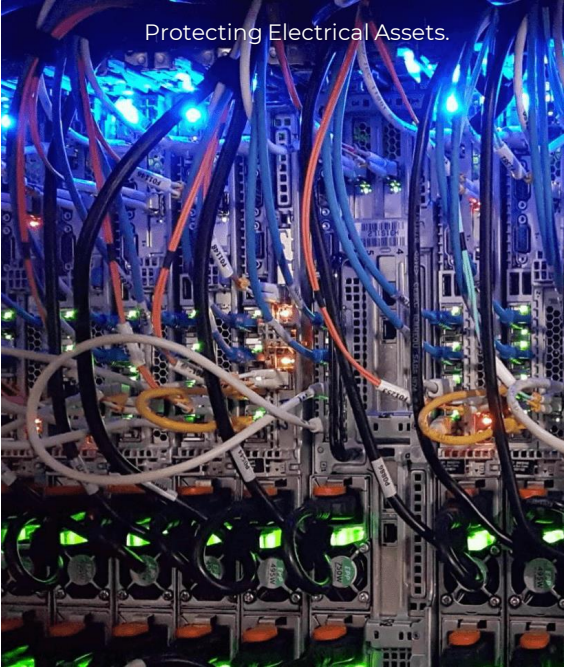
Engineering Goes with the Economics







Scope of Building Overload Short Circuit Normal/Emergency Systems



Safety Electricity Usage.

Grounding / Surge Protection System



Dealing with Electricity in Peace



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Smart Building / Smart Management Systems / BMS

A smart building refers to a place where incorporates various Internet of Things (IoT) devices and technologies to automate, control and manage household functions and systems. These devices are connected to a central hub or network, allowing owners to remotely monitor and manage their building's functions via smartphones, tablets, or voice assistants.

The MANDYAI SMART SOLUTIONS could bring convenience, energy efficiency, security, safety, home management to the owners and occupants of that place.

The MANDYAI SERVICES in smart building and smart managements are:

- Centralized Control and Automation System
- Customized Scenarios
- Security and CCTV
- Energy Management System
- Sustainable Energies

We have various designs you can choose from.



Control Automation Scenario System

Lighting

Curtains

Heat/Humidity

CCTV

Door Lock / Parking Gate

Entrance Monitoring

Devices are Listening to You

Your Command is Just a Click away



Control your home anywhere in the world



Energy Management Systems / Sustainable Energies



Photovoltaic/ Solar Panel

Wind Energy





Data Center SOLUTION

Data centers require robust and reliable electrical infrastructure to power and cool the servers, storage systems and networking equipment.

The MANDYAI SOLUTION is to design and install a reliable and efficient data center electrical infrastructure which is crucial for ensuring the continuous operation of the data center and protecting the valuable IT equipment

The MANDYAI SERVICES in datacenters and telecommunication centers are design and installation of below categories, in a way to minimize the risk of power-related failures and disruptions::

- The Site Plot
- Normal Power System
- Uninterruptable Power System
- Emergency Power System
- Monitoring and Control System
- DCIM



Normal Uninterruptible Emergency Systems



Guaranteed Flow

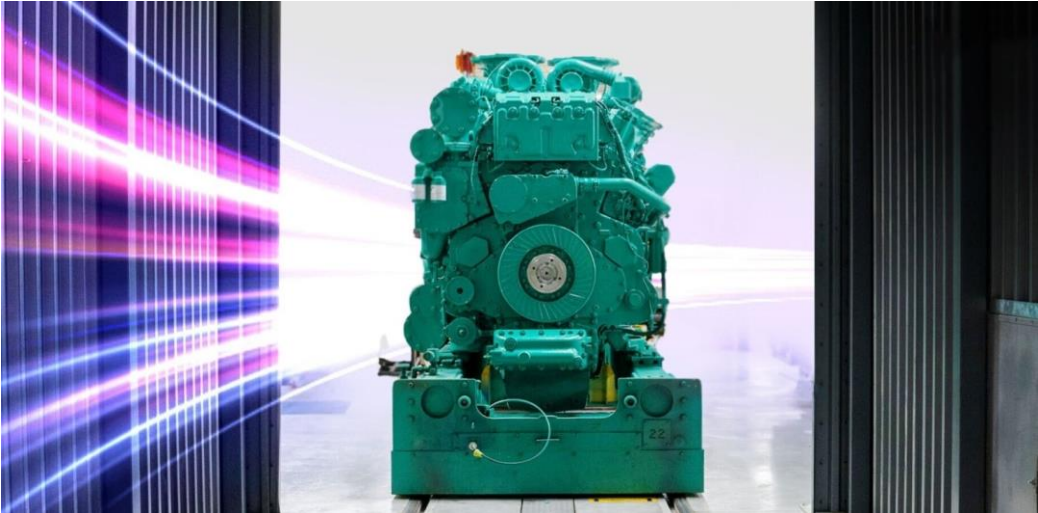


Uninterruptible

Clean Flow

Monitoring Control System

DCIM





MANDYAI Co.

MANDYAI, CO.

Design, Supervision, Installation

Electric Power Systems

Calculation Handbook

Smart Building / Smart Management / BMS

Datacenters / DCIM



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