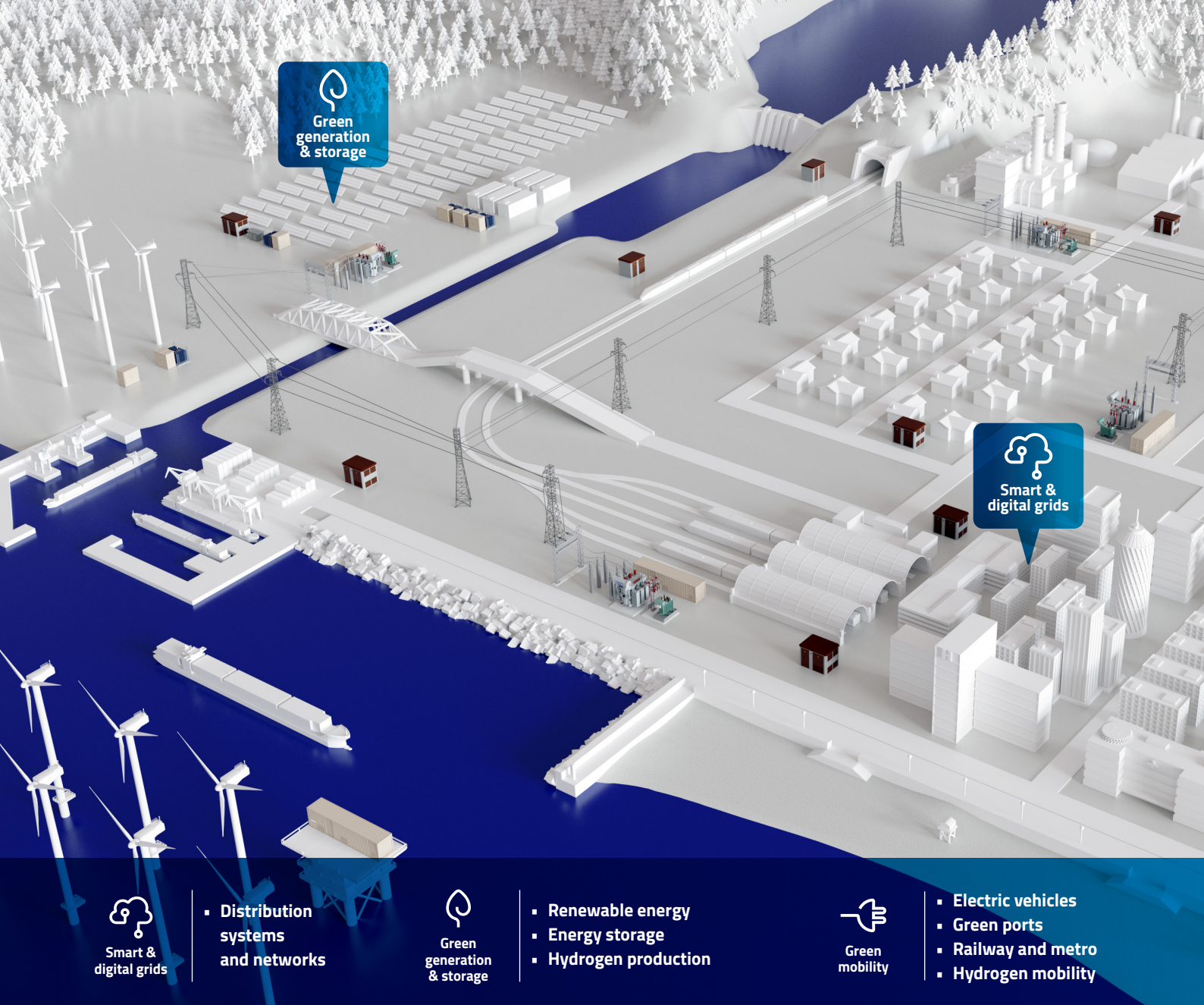




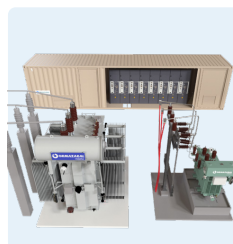
ormazabal
velatia

Product portfolio

ormazabal.com



Our solutions



Energy generation and distribution substations



Connection and transformer substations



Our products



Primary distribution cubicles



Secondary distribution cubicles



Protection and automation



Transformers



Low-voltage boards



Prefabricated substations

Primary distribution cubicles

cpg.0 lite

Gas-filled single busbar modular cubicles up to 24 kV.



Technical data

- Rated voltage: up to 24 kV
- Rated current in main busbar: up to 2000 A
- Rated current in outgoing line: up to 2000 A
- Rated frequency: 50/60 Hz
- Short-circuit current: up to 25 kA (1-3 s)
- Internal arc classification: IAC AFL(R) 25 kA 1 s
- Standards and certifications: IEC

cpg.0

Gas-filled single busbar modular cubicles up to 40.5 kV.



Technical data

- Rated voltage: up to 38 kV (IEEE) / 40.5 kV (IEC)
- Rated current in main busbar: up to 2500 A
- Rated current in outgoing line: up to 2500 A
- Rated frequency: 50/60 Hz
- Short-circuit current: up to 31.5 kA (1-3 s)
- Internal arc classification: IAC AFL(R) 25 / 31.5 kA 1 s
- Standards and certifications: IEC, IEEE, ENA

cpg.1

Gas-filled double busbar modular cubicles
up to 36 kV.



Technical data

- Rated voltage: up to 36 kV
- Rated current in main busbar: up to 2000 A
- Rated current in outgoing line: up to 2000 A
- Rated frequency: 50/60 Hz
- Short-circuit current: up to 31.5 kA (1-3 s)
- Internal arc classification:
IAC AFL(R) 25 / 31.5 kA 1 s
- Standards and certifications:
IEC

Secondary distribution cubicles

cgmcosmos

Gas-filled compact modular cubicles
up to 24 kV / 27 kV.



Technical data

- Rated voltage: up to 24 kV (IEC)
/ 27 kV (IEEE)
- Rated current: up to 630 A
- Rated frequency: 50/60 Hz
- Short-circuit current: up to 25 kA (1-3 s)
- Internal arc classification:
IAC AFL(R) up to 25 kA 1 s
- Outdoor option
- High corrosion resistance HCR option
- Standards and certifications:
IEC
IEEE
HN

ga/gae630

Gas-filled compact modular cubicles
up to 24 kV.



Technical data

- Rated voltage: up to 24 kV
- Rated current: up to 630 A
- Rated frequency: 50/60 Hz
- Short-circuit current: 20 kA (1-3 s)
- Internal arc classification:
IAC AFL(R) 20 kA 1 s
- Standards and certifications:
IEC
GB

cgm.3

Gas-filled compact modular cubicles
up to 40.5 kV.



Technical data

- Rated voltage: up to 38 kV (IEEE)
/ 40.5 kV (IEC)
- Rated current: up to 630 A
- Rated frequency: 50/60 Hz
- Short-circuit current: up to 25 kA (1-3 s)
- Internal arc classification:
IAC AFL(R) up to 25 kA 1 s
- Outdoor option
- High corrosion resistance HCR option
- Standards and certifications
 - IEC
 - IEEE
 - ENA
 - GB

cgm.800

Gas-filled modular cubicles
up to 36 kV / 38 kV.



Technical data

- Rated voltage: up to 36 kV (IEC)
/ 38 kV (IEEE)
- Rated current: up to 800 A
- Rated frequency: 50/60 Hz
- Short-circuit current: up to 25 kA (1-3 s)
- Internal arc classification:
IAC AFL(R) up to 25 kA 1 s
- Outdoor option
- High corrosion resistance HCR option
- Standards and certifications
 - IEC
 - IEEE
 - ENA

Protection and automation

Extensive range of integrated equipment associated with Ormazabal products, with protection, control and automation functions to meet the needs of the electrical network.



Voltage sensing units

Voltage presence/absence sensing system, with the option to include high-frequency outputs for measuring signals associated with partial discharges.

Products

- ekor.vpis / ekor.ivds / ekor.spc
- ekor.sas
- ekor.rtk
- ekor.ivds-pd / ekor.check

Voltage and current sensors

Toroidal current sensors and capacitive and resistive voltage sensors for protection and monitoring.

Products

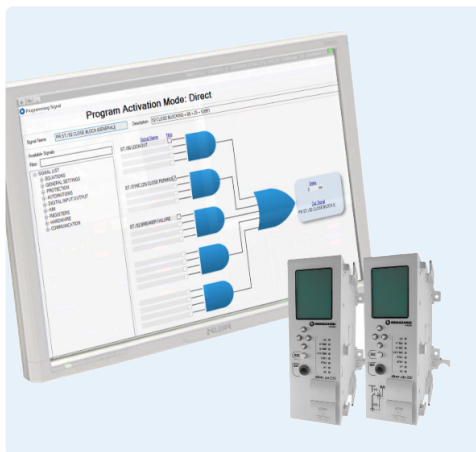
- ekor.evt-c
- ekor.evt-r
- ekor.evs

Protection, metering and control units

Multifunction protection, including control and metering (with self-powering option).

Products

- ekor.rci
- ekor.rpg / ekor.rpt
- ekor.rpa / ekor.rppl
- ekor.wtp



Medium-voltage control and automation units

Remote control and automation of the medium-voltage network.

Products

- ekor.ucb
- ekor.stp
- ekor.uct / ekor.ccp
- ekor.rci-rtu
- ekor.tsm / ekor.tsc

Low-voltage control and automation units

Remote control and automation of the low-voltage network.

Products

- ekor.rsa
- ekor.tsa
- ekor.psa

Software

Configuration tools for ekorsys family protection, control and metering units.

Products:

- ekor.soft
- ekor.soft-xml
- Programmable Logic Controller
- SCL Toolkit

Transformers

Electrical distribution applications

Transformers for connection and transformer substations.



Technical data

- Power: from 50kVA up to 3150 kVA
- Primary voltage: up to 36 kV
- Secondary voltage: adapted to the distribution network
- Standards and certifications:
 - IEC
 - IEEE
 - Regulation (EU) 548/2014
 - HN/ST

Product families

- transforma.dis
- transforma.tpc
- transforma.smart
- transforma.bst



transforma.smart

Transformers with on-load tap-changers (OLTC) and ekor.tsm control unit.

Technical data

- Power: from 250kVA up to 2000 kVA
- Primary voltage: up to 36 kV
- Secondary voltage: adapted to distribution network
- On-load tap changer (OLTC) with vacuum switching technology and 9 taps
- Scalable ekor.tsm control unit: from standalone type through to communicable
- Standards and certifications:
 - IEC

Power applications

Transformers for power generation and distribution substations.



Technical data

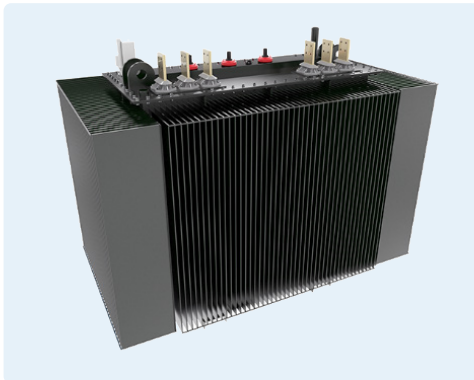
- Power: up to 10 MVA
- Primary voltage: up to 72.5 kV
- Standards and certifications:
 - IEC
 - Regulation (EU) 548/2014
 - HN/ST

Product families

- transforma.power
- transforma.earth
- auto.transforma
- transforma.hvd

Special applications

Transformers designed for specific needs.



Applications

- Green mobility: electric vehicles, high-voltage shore connection systems, railway and metro.
- Sustainable buildings & infrastructure: data centres, industry and specialist machinery (engines, pumps, cranes, etc.).

Product families

- transforma.plur

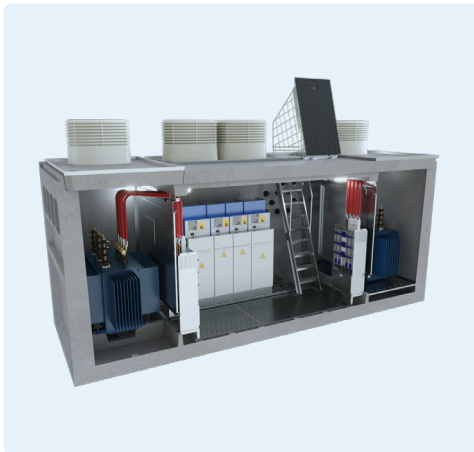
Optional characteristics

- Transformers with Organic & Organic Synth biodegradable dielectric liquid.
- Harmonics filter.
- Digital transformers.
- Low electromagnetic emissions.
- Compact high-performance transformers.
- Low noise level.

Prefabricated substations

Transformer substations

Prefabricated transformer substations.



General characteristics

- Ground level or underground
- Reinforced prefabricated concrete monoblock enclosure
- Walk-in
- Different configurations: transformer, medium-voltage switchgear, low-voltage board
- Standards and certifications:
 - IEC
 - Specific regulations of the Utility Company
 - Local regulations

Product families

- pfu
- pfs
- preforma.pf

Kiosk-type compact prefabricated transformer substations

Kiosk-type compact prefabricated transformer substations.



General characteristics

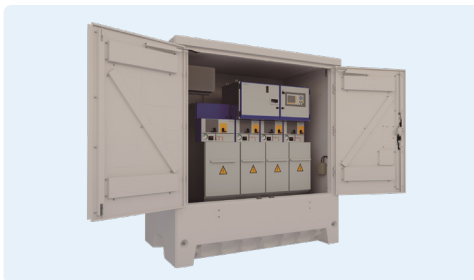
- Ground level or half-buried
- Reinforced prefabricated concrete or metal enclosure
- Walk-in and non-walk-in
- Compact switchgear assemblies
- Different configurations: transformer, medium-voltage switchgear, low-voltage board
- Standards and certifications:
 - IEC
 - Specific regulations of the Utility Company
 - Local regulations

Product families

- ormaset
- mb
- ctc
- cto
- miniblok
- minisub
- pf

Switching substations

Prefabricated switching substations



General characteristics

- Ground level
- Reinforced prefabricated concrete or metal enclosure
- Non-walk-in
- Medium-voltage switchgear
- Standards and certifications:
 - IEC
 - Specific regulations of the Utility Company
 - Local regulations

Product families

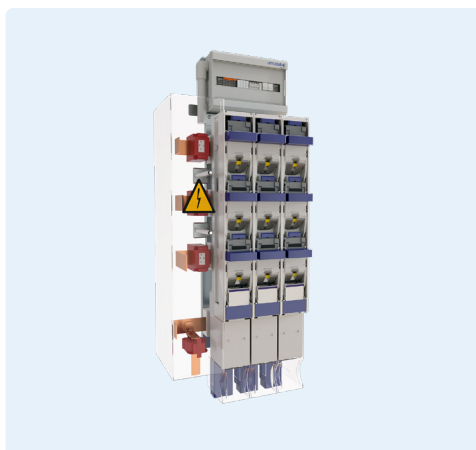
- ormapack
- cms

Low-voltage boards

addibo

Low-voltage board with insulated busbar.

A range of addibo options are available, depending on the smartisation required in the low-voltage network.



Technical data

- Rated voltage: 440 V
- Rated current: up to 1600 A
- Rated frequency: 50/60 Hz
- Power frequency withstand voltage: 2.5 kV live parts and 10 kV to ground
- Lightning impulse withstand voltage: 20 kV
- Short-circuit current: up to 25 kA 1 s
- Internal arc classification: IAC 25 kA 1 s
- Standards and certifications: IEC 61439

Product ranges

- addibo.urban: for walk-in transformer substations with fuse holder bases protection, up to 8 three-phase outputs.
- addibo.compact: for non-walk-in transformer substations with fuse holder bases protection, up to 3 three-phase outputs.

Advanced monitoring option for real-time measurement and management of electrical parameters, with ekorsys detection assemblies integrated in fuse holder bases.

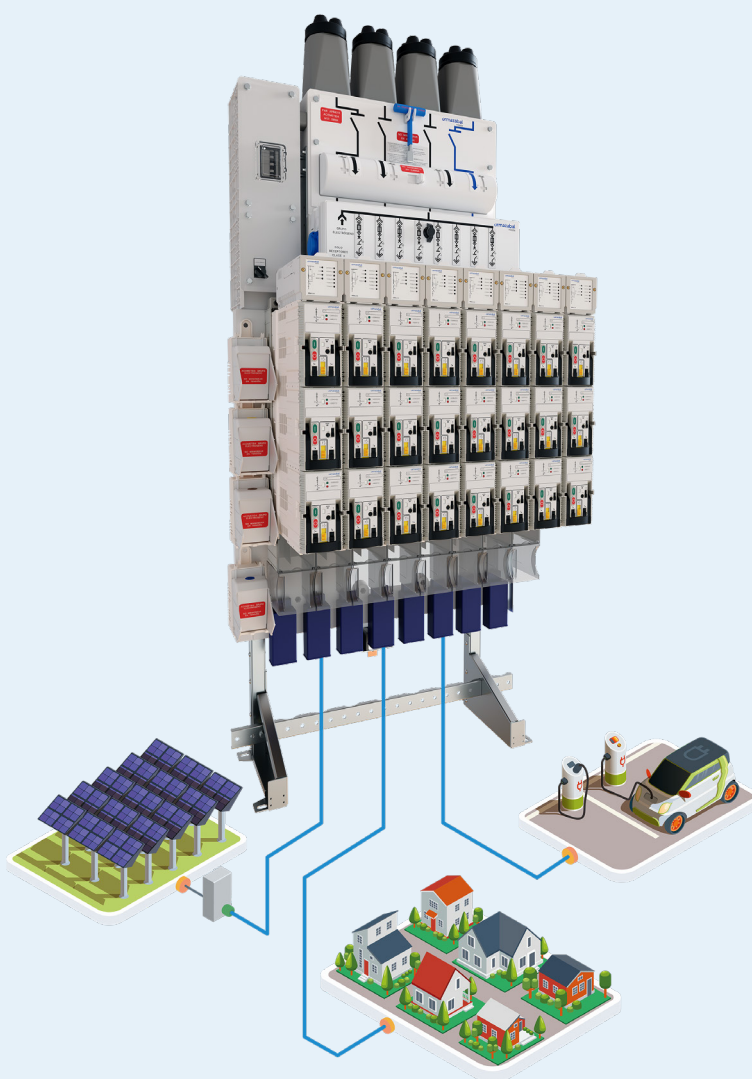
automated addibo

Low-voltage board with insulated busbar and circuit-breaker bases for full control of the low-voltage network.

Applications

The addibo automated low-voltage board is designed to be part of the networks of tomorrow.

Automated addibo's monitoring, control and coordination capabilities provide the intelligence needed for integration in distributed generation, smart cities and electric mobility networks.





Technology for a new
electric world

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More info



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