



STEP UP & STEP DOWN SUBSTATIONS PTC SHELTER



- +** **NEW PTC**
Last generation of substation
- +** **LIGHTWEIGHT**
4 to 5 lighter than a concrete substation
- +** **COMPACT**
Accessible materials from outside
- +** **MORE PRACTICAL**
Substation delivered turnkey
- +** **SMART**
Monitoring PTC

AUGIER ENERGY PRESENTS
HIS NEW PTC

ADVANTAGES OF STEP UP & STEP DOWN SUBSTATIONS PTC SHELTER



SUBSTATION DELIVERED WIRED

The structure allows to support the weight of materials



MODULAR SUBSTATION

Designed for every conceivable configuration



ANTI VANDLISME

Locking with locks
Invisible handles



COMPACT SUBSTATION

Manipulation from the outside

POINT TO POINT OR LOOP ENERGY TRANSPORTATION

- ⇒ Bring energy closer to the receivers
- ⇒ Reduction of cable cross-sections by carrying energy in high voltage class 7.2 kV
- ⇒ Substation equipment to meet all diagrams

CONTROL AND PROTECTION OF NETWORKS

- ⇒ Electrical protection of energy transportation networks
- ⇒ For outdoor lighting networks contactor lighting control
- ⇒ Grounding networks for safety intervention

NETWORKS MONITORING

- ⇒ Possibility of integrating sensors
- ⇒ Monitoring with SMS sending
- ⇒ Control and timestamp of events

Painted metal enclosure, RAL 1015, IP34, forming different compartments for receiving low voltage equipment, from one to three switch cells and one transformer.



OIL TRANSFORMER
25 to 1250 kVA



EQUIPPED ON THE NETWORK SIDE OF ONE OR SEVERAL SWITCHES, ALLOWING LINE BREAK AND GROUNDING



NETWORK PROTECTION BY FUSES INSTALLED IN THE SWITCHGEAR



IT CAN BE USED ON NETWORKS 3200 V, 5500 V and 6600 V

APPLICATION AREAS

OF STEP UP & STEP DOWN SUBSTATIONS

PTC SHELTER



AIRPORTS

REMOTE POWER SUPPLY, RADAR POSTS,
SLI BASE, LIGHTING



RAILWAYS

REPLACEMENT AERIAL NETWORKS,
POWER SUPPLY, SIGNALING



LIGHTING

POWER SUPPLY OF ROAD LIGHTING,
POWER SUPPLY FENCES



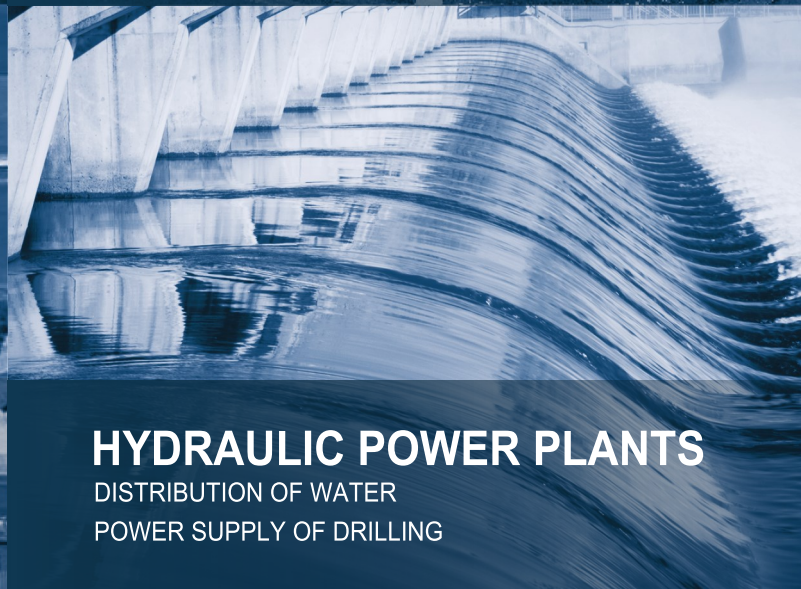
ELECTRIFICATION

POWER SUPPLY OF REMOTE HABITATIONS,
POWER SUPPLY OF CONSTRUCTION SITES



MILITARY

POWER SUPPLY OF LIFE BASES



HYDRAULIC POWER PLANTS




DISTRIBUTION OF WATER
POWER SUPPLY OF DRILLING

TECHNICAL CHARACTERISTICS




OF STEP UP & STEP DOWN SUBSTATIONS

PTC SHELTER

STEP UP SUBSTATION

 POWER RATING*	25 to 1250 kVA
 PRIMARY VOLTAGE	400 V
 SECONDARY VOLTAGE	3200 V to 6600 V

STEP DOWN SUBSTATION

 POWER RATING*	25 to 1250 kVA
 PRIMARY VOLTAGE	3200 V to 6600 V
 SECONDARY VOLTAGE	400 V

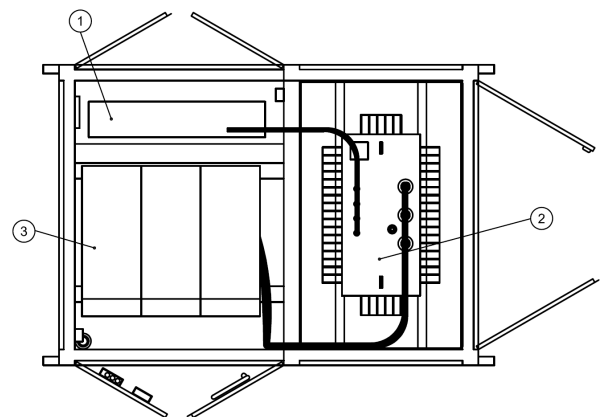
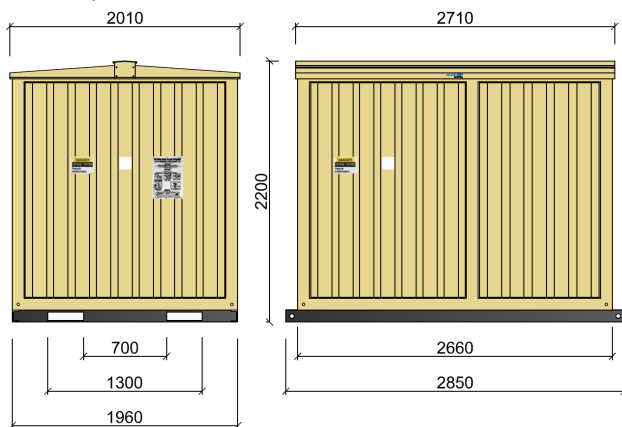
*others power rating and voltage on demand

SUBSTATION CHARACTERISTICS

- ⇒ **OUTDOOR SUBSTATION RAL 1015**
- ⇒ **WEIGHT BETWEEN 2500 kg AND 5950 kg ACCORDING TO EQUIPMENT**
- ⇒ **THREE INDEPENDENT COMPARTMENTS**

1. LOW VOLTAGE COMPARTMENT, EQUIPMENT ACCORDING TO THE PROJECT
2. OIL TRANSFORMER COMPARTMENT, WITH CONTAINMENT BUNDS
3. MEDIUM VOLTAGE SWITCHGEARS COMPARTMENT

Example of dimensions



SUBSTATION OPTIONNAL FEATURES

- ⇒ **STAINLESS PTC SUBSTATION**
- ⇒ **HIGH TEMPERATURE (+55°C) PTC SUBSTATION**
- ⇒ **COMPLEMENTARY ELECTRICAL PROTECTIONS: SURGE ARRETOR, UNBALANCED CURRENT**
- ⇒ **MONITORING : RETURN OF INFORMATIONS THROUGH GSM NETWORKS**

STANDARDS RESPECTED OUR QUALITY COMMITMENT

- ⇒ **CEI 62271-200** : HIGH VOLTAGE EQUIPMENT UNDER METALLIC ENCLOSURE
- ⇒ **CEI 60529-NFC20010** : DEGREES OF PROTECTION PROVIDED BY THE ENCLOSURE
- ⇒ **CEI 60076** : POWER TRANSFORMERS

