
ULJANIK TESU ELEKTRONIKA

ULJANIK TESU ELECTRONICS (**UTE Ltd**) is a company for design, manufacture and sale of electrical and electronic equipment.

From 1975 to 1997 the company was present on the world market as the manufacturer of electric and electronic equipment in The electrical machinery and equipment factory (TESU) in the Uljanik shipyard Pula. Since 1997 the company has continued its own production activities and it is now an independent private limited liability company.

BASIC ACTIVITIES

Design, production and sales of electric and electronic devices like:
- electrical power distribution system
- electronic unit for control and regulation in the processing industry and ships
- electronic unit for control and of the genset as supply source
- alarm and monitoring systems
- protection and control of diesel genset
- rectifiers, storage batteries chargers
- generator voltage regulators
- voltage sensors...

CERTIFICATES

UTE LTD has been established Quality Management System, according to the demands of the International group of standards ISO 9001:2008.
Certification body of UTE LTD certificate is SGS Adriatica.


Certificate HR10/0191

SGS

UTE
ULJANIK TESU ELEKTRONIKA

ULJANIK TESU - ELEKTRONIKA d.o.o.

Flaciusova 1, 52100 Pula, Hrvatska

ISO 9001:2008

Projecting, production, sale, servicing and maintenance of electric and electronic equipments.

This certificate is valid from 15 March 2010 until 14 March 2013
and remains valid subject to satisfactory surveillance audits.
Recertification audit due before 24 February 2013
Issue 1. Certified since 15 March 2010

17021-HAA

4002

QMS

SGS

CERTIFICATES

All our devices that are made for instalation on a ship have licence or standard approval of international recognized registries (CRS, *Lloyd, BV, RINA).*

HRVATSKI REGISTAR BRODOVA

POTVRDA O TIPNOM ODOBRENJU
TYPE APPROVAL CERTIFICATE

Brodski regulirani ispravljači – punjači : SCR
Regulated marine rectifiers – chargers

UTE – ULJANIK TESU ELEKTRONIKA d.o.o.
52100 PULA, Flacanova 1
HRVATSKA - *CROATIA*

Izlazni napon: 24 V
Output voltage

2012-02-03

Split, 2008-02-03

Goran Begović, dipl. ing.

TYPE APPROVAL CERTIFICATE

UTE - Uljanik TESU Elektronika d.o.o.
Pula - CROATIA

ALARM, MONITORING AND CONTROL SYSTEMS

This certificate will expire on: 06 Dec 2014

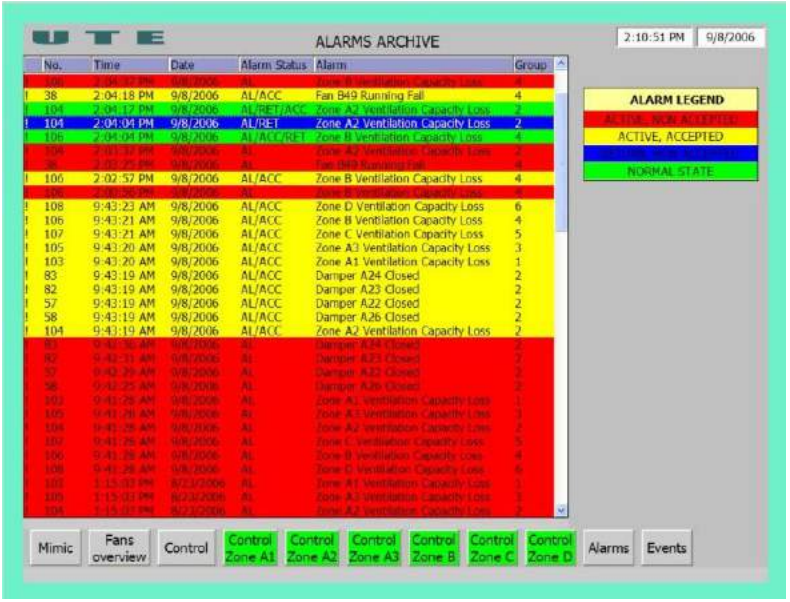
ACTIVITIES

We offer high-quality service, from concept development, detail elaboration, implementation, maintenance, at the same time taking into account client needs and mutual collaboration.

We are designing and producing control for different industrial processes, using our own solutions or hardware of world recognized companies.

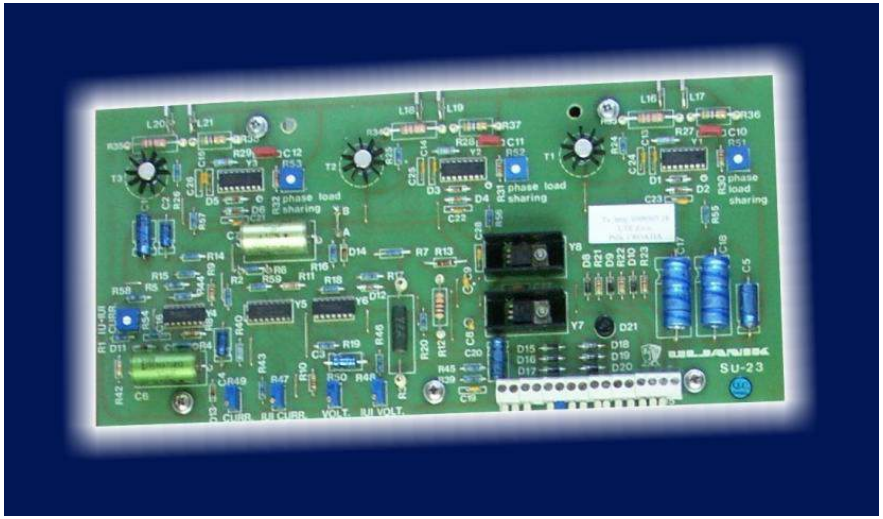
ACTIVITIES

To solve control requests on different processes, we often use programmable logic controllers (PLC) from our own production or different world recognized manufacturer like **Siemens, OMRON, Koyo, Allen Bradley, Woodward** .
We programe systems for plant or equipment monitoring and control as well as data acquisition and analysis - SCADA .



ACTIVITIES

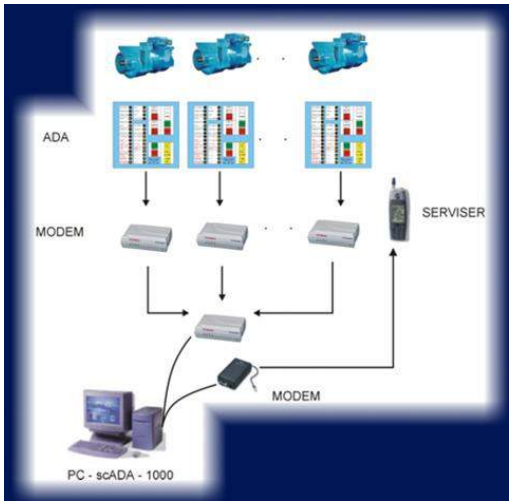
We design and produce PCBs for our devices.
Before the instalation in devices, every PCB is tested. After the instalation, the whole device is tested.
Test of every product is made in real conditions (under full load) for more hours.



PRODUCTS

DIESEL GENERATING SET AUTOMATICS

- "stand-by" automatics with the genset which supplies the consumers in case of mains failure
- "black-out" automatics which in case of critical alarm of generator set gives order to the next generator set to start
- automatics of central station with aggregates which are main power supply, with synchronization, load distribution, start and stop depending on load and possibility to control large load
- engine and generator protection



PRODUCTS

SCR - THYRISTOR RECTIFIER - CHARGER

Thyristor rectifier - charger type SCR from 30A, 60A, 100A or by request is intended for charging storage batteries, as supply source 24V (12V) for consumers or both at the same time.

SPIN - STABILIZED SWITCHING SUPPLY SOURCE

Spin is intended for :

- *consumers supply without storage batteries*
- *storage batteries charging/maintenance*
- *simultaneous storage battery charging/maintenance and consumers supply*

Nominal voltage and current is: 12V / 12A or 24A
24V / 6A or 12A

PRODUCTS

ARN45 - ANALOG REGULATOR OF SYNCHRONOUS GENERATOR VOLTAGE

Designed for use on synchronous generator with or without a brush with 50A excitation current maximum and frequency 50/60Hz.

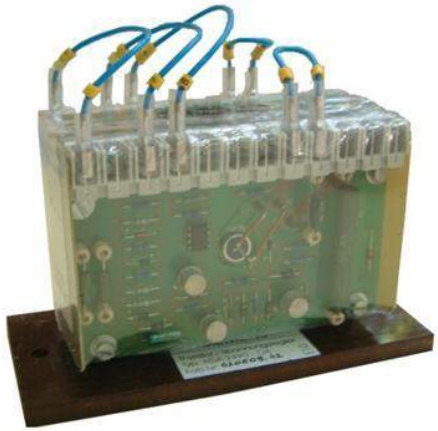
ARN5 - ANALOG VOLTAGE REGULATOR

Designed for use on brushless synchronous generator with 5A excitation current maximum and frequency 50/60Hz. Regulator includes frequency compensation (U/f characteristic), over excitation protection with shut-down and EMI suppression filter. The regulator allows the use of current boost, LAM and parallel operation compensation equipment.

PRODUCTS

SIEMENS

VOLTAGE REGULATORS
according to the Siemens documentation.



REFERENCES

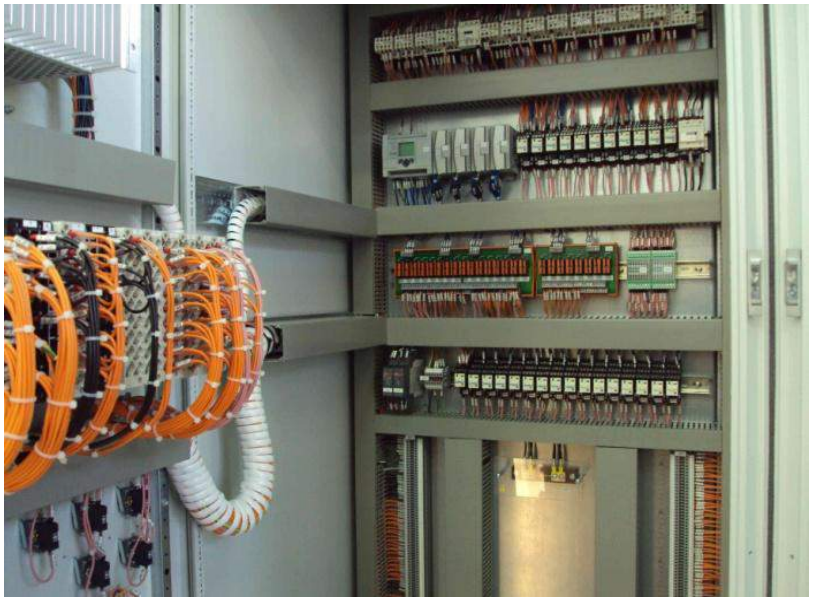
Ansaldo Sistemi Industriali

We are designing and producing switchboard and control cabinets for different industrial processes, using our own solutions or hardware of world recognised companies.
For Ansaldo Sistemi Industriali we made :
- Excitation and protection cabinet for rotational frequency converter system10kV/50Hz to 11kV/60Hz, 3,6MVA
- Excitation and protection cabinet of synchronous motor
- Excitation and protection control panel of synchronous generator
- Remote control panel

REFERENCES

32,5MVA, 12kV generator excitation and protection cabinet
Ta-Lin refinery, Taiwan

REFERENCES



32,5MVA, 12kV generator excitation and protection cabinet (interior details)

REFERENCES

7,9MW 11kV synchrounos motor excitation and protection cabinet
Paradip refinery, India

REFERENCES

INAGIP / Marino Rosetti, gas platform

The scope of project is the supply of two Main Gas Drive Generator Engine Sets which are controlled and protected by two Local Control Panels (Switchboard) made by UTE d.o.o.

Two “Main” gas engine driven synchronous generators (“Main” gas generator sets) are provided to supply power to all Platform’s electrical users during the “Normal” operating conditions allowing also the depend of load starting of one main “Fire Water Pump”.

With reference to the “Electrical Load Summary”, the electrical load demand widely varies between the two Platform’s operating conditions foreseen “Unmanned” (no presence on-board of personnel) and “Manned” (presence on-board of personnel).

The “Normal” operating condition of the “Main” power generation system shall be with only one “Main” gas generator set running (both in “Unmanned” and in “Manned” Platform’s operating condition), except during particular periods (e.g. during transition from “Unmanned” to “Manned” Platform’s operating conditions, during motor’s heavy starting, during hottest days in summer, during particular maintenance activities, etc.), where both “Main” gas generator sets may run in parallel. The automatic management of the “Main” power generation system, to meet the loads’ requirements, shall be autonomously performed by the Mimic panel.

REFERENCES

Izabela South gas platform

REFERENCES

Annamaria A gas platform

REFERENCES

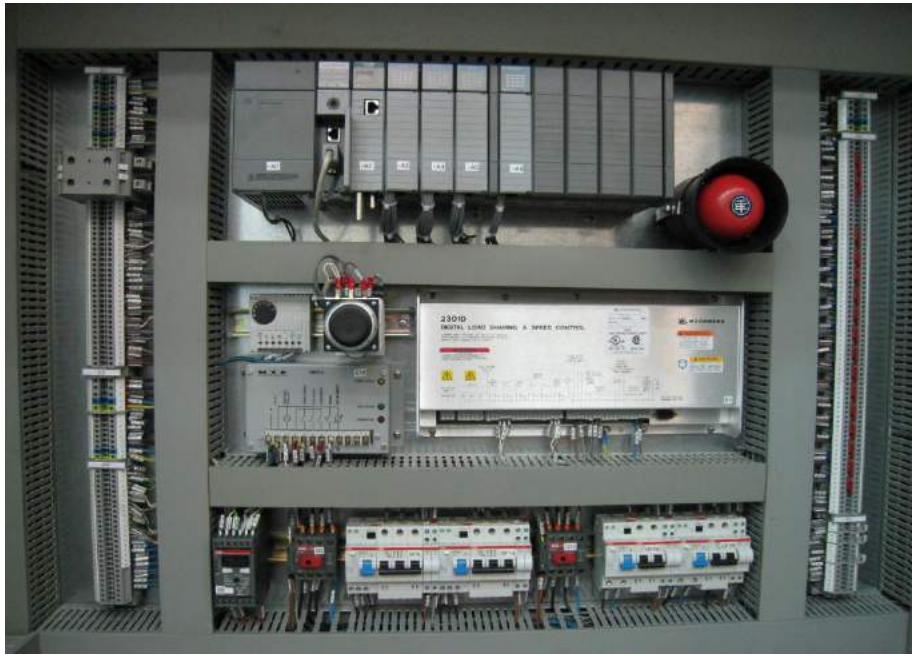
The control panel is equipped with all circuits, devices and control systems that realize and assure the correct operation of the plant.

The parallel control and speed control systems are referred to Gen Sets with engine mounting electronic speed governors or through CANBUS connection where the engine allows it. As optional, possibility to connect with a remote monitoring system operating in a PC windows based.

The Control Panel allows to obtain a system that, by machine operator, starts the engine, synchronizes the Gen Set, closes the relevant Circuit Breaker enabling the engine to run in parallel with others Gen sets having similar characteristics.

The system, using the Can Bus connection between the control units, allow to obtain an automatic load sharing system: the power is equally supplied by the Gen Sets. After an adjustable delay, if the appropriate circuit is inserted (by selector switch), the Control Panel verifies the real requested electric power. In case of load increasing, the system allows the starting of the stand-by Gen Set, that automatically works again in parallel to the master Gen Set.
All the activation and deactivation delays, as well as the power thresholds levels, can be adjusted directly on the Gen Set control devices

REFERENCES



Control cabinet for gas engine and generator

REFERENCES

Beregovaya, Russia

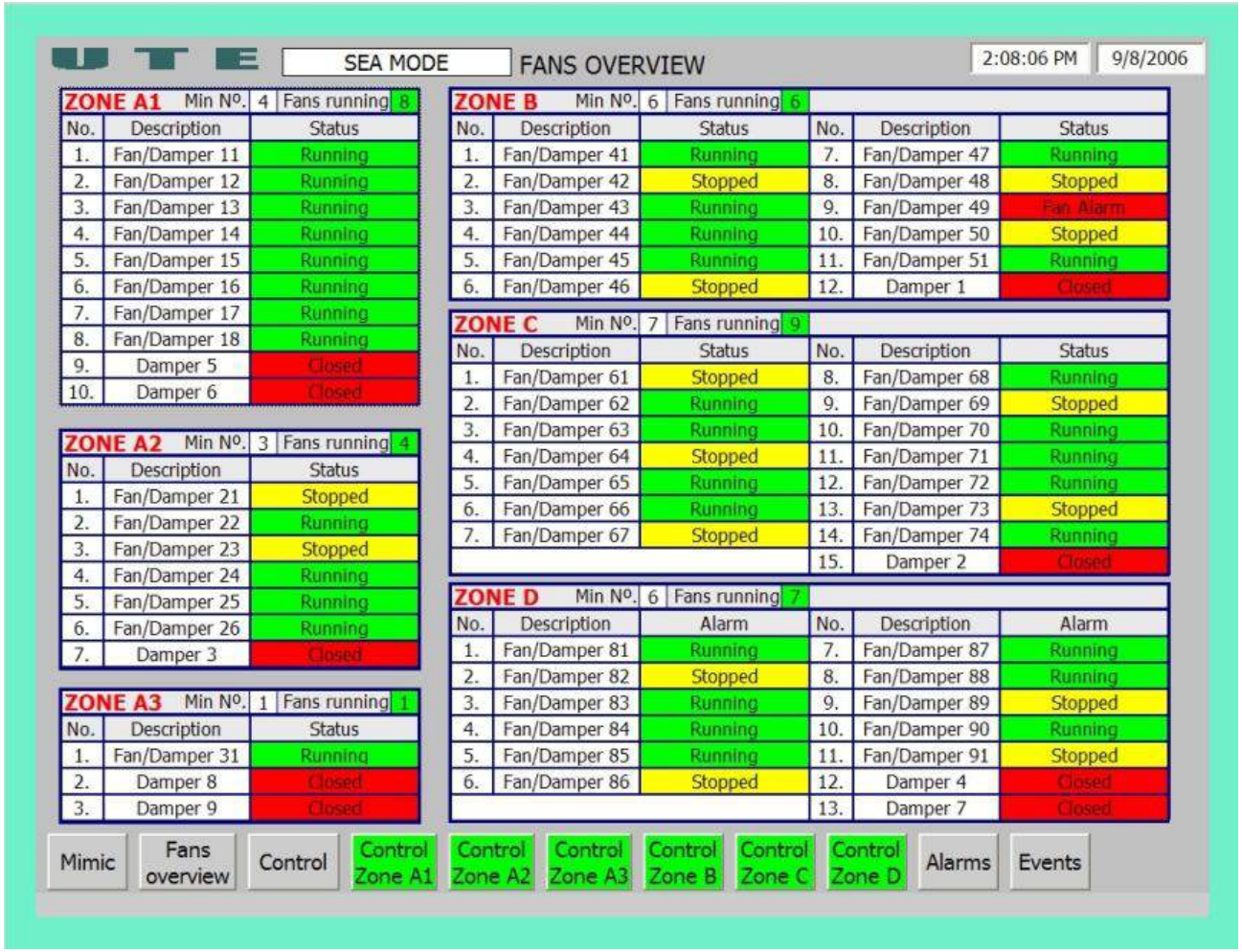
Control cabinet for active and reactive power

REFERENCES

Uljanik shipyard

Touch screen for control of 90 fans with S7-300 PLC

REFERENCES



Uljanik shipyard

Touch screen for control of 90 fans with S7-300 PLC

REFERENCES

Uljanik shipyard

Touch screen for control of 90 fans with S7-300 PLC

REFERENCES

CHP, 400kVA on biomass

Control cabinet

REFERENCES

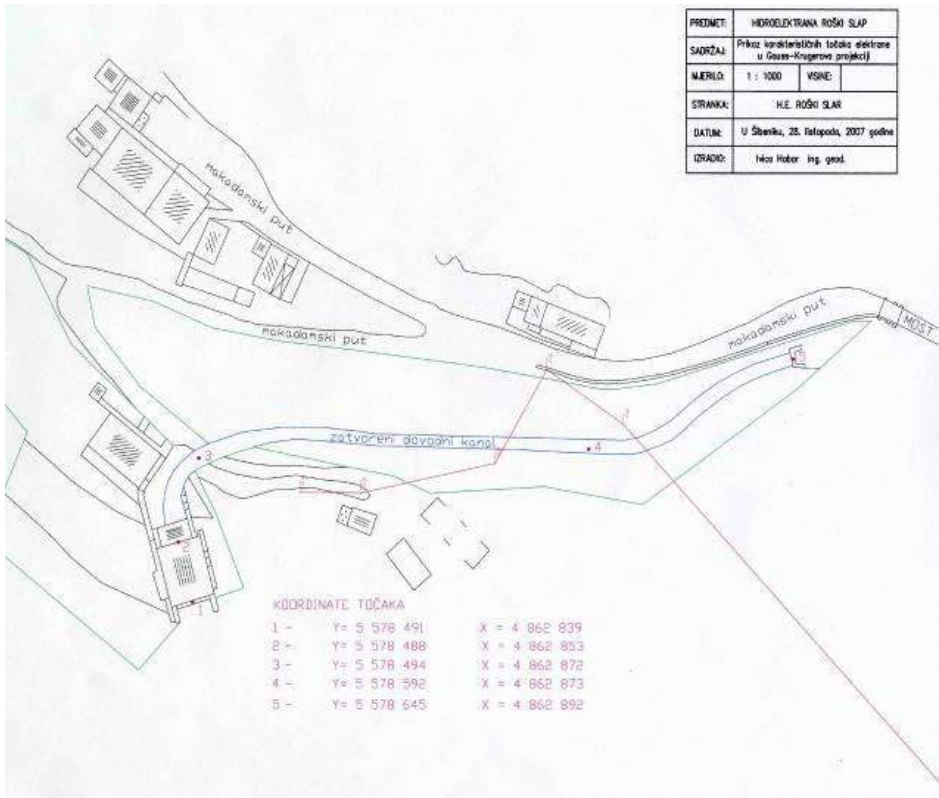
CHP, 400kVA on biomass

REFERENCES

Hydro plant Roško slap

Automatics of small hydro plant Roški slap is made with PLC, protection devices which are embedded in low voltage switch-board cabinet and control cabinet which controls turbine work. Most of information arrive to PLC trough contact inputs, while some arrive trough communication connection.
Display of plant drive status and alarm is on personal computer which is connected to PLC trough communication cable. Trough PC is possible to control power factor ($\cos\varphi$) for each of generators and to see trends of water level and openness of turbine blades.
Low voltage cabinet is always in automatic mode and all parameters of system are seen trough protection devices. PLC receives information from protection devices, from sensors on generator, redactor and turbine and from turbine control cabinet. Based on this information and information on high-voltage switches position, PLC gives permission to work to adequate turbine, or turns it off.

REFERENCES

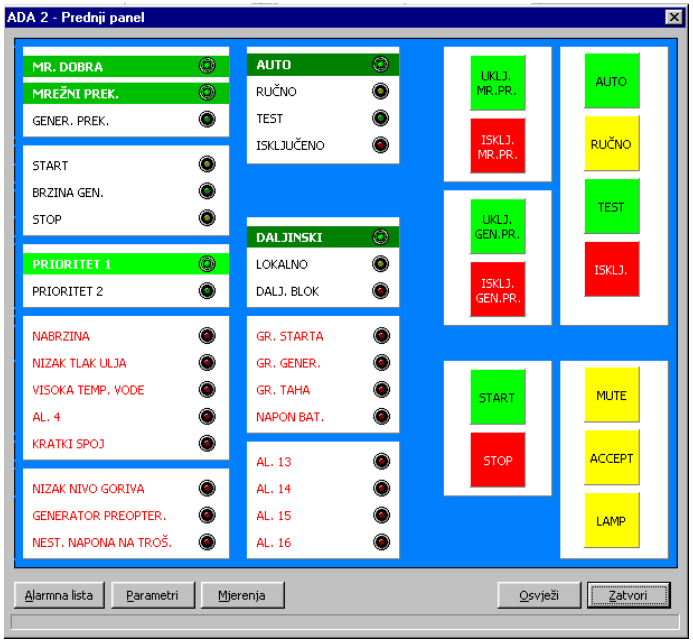


Hydroplant Roški slap, 1.64 MW

Control cabinet

REFERENCES
Macedonian Telekom

Automatics of 50 aggregates in the whole Macedonia is made. Automatics of the aggregates are connected trough modem line with central system in Skoplje, from which is possible to control and supervise the whole system .



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