

This project was developed to GE Energy, from the year 2002 to 2003.

In this project was changed conventional controls of whole Substation to new digital systems of GE, gathering three sectors of 500 kV, 230 kV and 138 kV. It was installed new protection of GE on the bars of 500 kV and 230 kV, protection of the 2 Auto-Power transformers of 500/230 kV, 600 MVA and 3 Auto-Power transformers of 230/138 kV, 100 MVA.

Equipments that used in the Digital System of Measurement, Protection, Command, Control and Supervision are from UR, D200 and D20 GE lines.

In this project, ELTMAN has developed the follow activities:

- System Workstatement;
- Digital Systems of Protection and Control;
- Unifiliars Diagrams, trifiliars, functionals and logicals;
- Protection and control panel project, including: intern and extern vision, connection tables (FROM - TO), materials and labels lists;
- Conventional panels adaptations;
- Interconnection diagrams and cable lists;
- Point list of Levels 1, 2 and 3 ;
- Screen of Level 1;
- MHIs Level 1 configuration;
- Redundants IEDs of bay controls configuration;
- Adjustment studies and protection configuration;
- Panel installation project and Optical Fiber Networks;
- Acceptance Tests in Plant;
- Commissioning;
- Acceptance tests in Field.