

Expert committees of CIREC National Committee of Serbia and CIREC Committee of Montenegro are established by the Executive Committee for each Conference in accordance with current topics and problems in the electricity distribution of Serbia and Montenegro in the region, with consideration of the number and content of the CIREC technical sessions. The following preferential subjects have been established for the Seventh Conference on electricity distribution in Serbia.

### **SESSION 1: DISTRIBUTION SUBSTATIONS AND POWER LINES**

Chairman: **Prof. Dragan Tasic**, PhD., Electronic Faculty Nis

1. Selection and application of new technical solutions, technologies and equipment in substations and power lines
2. Projection of power distribution substations and power lines using software tools
3. Influence of substations and power lines regarding environmental protection
4. Technical regulation regarding substations and power lines

### **SESSION 2: POWER QUALITY IN DISTRIBUTION SYSTEMS**

Chairman: **Prof. Vladimir Katic**, PhD, Faculty of Technical Sciences, Novi Sad

1. Power quality technical regulations (standardization, technical regulations and methods)
2. Measurement and monitoring of power quality (diagnostic methods, equipment, etc.)
3. Influence of attaching new renewable energy sources and non-linear consumers on power quality – harmonics, flicker, asymmetries, expansion, conditions of attachment, elimination methods
4. Operation of small power plants and other renewable energy sources and power quality
5. Disturbances directly endangering consumer operation – voltage sags, short breaks and other deviations in consumer supply – causes, expansion, immunity, elimination
6. Overvoltage and overvoltage protection in power distribution networks, electromagnetic compatibility
7. Grounding disturbances and power quality
8. Overvoltage effects on operation of small power plants and other renewable energy sources

### **SESSION 3: OPERATION, CONTROL AND PROTECTION**

Chairman: **Zarko Micin**, Elektrovojvodina, Novi Sad

1. Preventive maintenance, revitalization and possibilities of efficient use of the EEO
2. Experiences in application of new equipment, software tools, system for protection and failure determination
3. Network management in failure terms
4. Maintenance management (programs for: planning, cost control and resource engagement, work documents, testing results and equipment evaluation)

### **SESSION 4: PROTECTION AND OPERATION OF THE ELECTRIC NETWORK**

Chairman: **Dušan Vukotić**, M.Sc.E.E., Electric Power Distribution, Belgrade

1. The strategies during replacing SCADA systems, reconstruction of the relay protections and implementation of the substation automation systems
2. The usage of energy application within electric utilities
3. The automation of electric distribution networks
4. Security aspects of information access and information exchange
5. Communication standards and interoperability standards for IT integration
6. The usage of communication systems for protection and network operation
7. Impact of distributed generation on traditional protection systems
8. Reliability aspects of IEC 61850 based protection
9. Communication techniques and protocols for smart grids and smart metering
10. Interdependency of network control and communication infrastructure

### **SESSION 5: DEREGULATION, OPEN MARKET AND UTILIZATION OF ELECTRICITY**

Chairman: **Nenad Katić**, PhD, Telvent DMS, Novi Sad

1. Experience with de-regulation, unbundling and outsourcing in electricity sector in the region
2. Pricing principles for electricity distribution services, price tariffs for tariff customers
3. Metering devices, billing systems and customer services
4. Automatic Meter Infrastructure (AMI) solutions, communication requirements, experiences
5. Distributed Generation – network access, protection and control – experiences, standards, regulation
6. Energy efficiency, Load Management and Demand Side
7. Management

## SESSION 6: POWER DISTRIBUTION SYSTEM DEVELOPMENT

Chairman: **Aleksandar Janjić**, PhD, Telvent DMS, Novi Sad

1. Demand and production forecast
  - Methodologies for demand forecast in an assigned area
  
  - Renewable sources production forecast
  
  - Performance requirements
  - Economical versus technical performance
  
  - System reliability and degree of adequacy
  
  - Methods for performance assessment
  
  - Network losses
  
  - Results of performance evaluation and benchmarking
  
  - Investment strategies
  - Multi criteria investment optimization
  
  - Asset management standards implementation
  
  - Risk analysis & asset management implications

- Network schemes, design criteria and practice
- Design of active networks and smart grids
  
- Advanced network schemes for the best exploitation of distributed generation
  
- Integration of distribution network with other infrastructures
  
- Distribution network design criteria to accommodate low probability high risk extreme events