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CONSEIL INTERNATIONAL DES GRANDS RESEAUX ELECTRIQUES
INTERNATIONAL COUNCIL ON LARGE ELECTRIC SYSTEMS

STUDY COMMITTEE D2
INFORMATION SYSTEMS AND TELECOMMUNICATION

2017 Colloquium
September 20 to 22, 2017
Moscow – RUSSIA

Preferential Subject N° - PS 1

Automation of asset management and field inspection processes as an instrument of economic efficiency of distributed power systems (Microgrids)

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Distributed system is a set of interacting and interdependent elements that are situated on extended area. Listing, complex monitoring, and systematic logging of assets provide raw data for technical performance indicators metering. These procedures plays important role in asset management. Monitoring could be implemented via sensors and other metering devices. One more instrument is field inspection that is carried out by field engineers who regularly monitor state of equipment, fix and repair broken elements. Technical metering supports processes of planning and intellectual forecasting. Planning and forecasting provides frame of asset management that consequently plays key role for economic efficiency in far-reaching horizon.

Planning and forecasting frame provides ground for wide variety of functions of asset management: field inspection planning, cost assessment, cost planning, defining of corporate investment policy, etc. Asset management is an essential element of corporate economy. Moreover, almost all processes of asset management: listing, monitoring, inspections and logging – due to their relative routine characteristics, could be easily automated that ensure extra economic advantages for economic efficiency in distributed power systems.