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*Working Group on
Losses Reduction*

**Reduction of Technical
and Non-Technical
Losses
in Distribution Networks**

20, November 2017

Summary

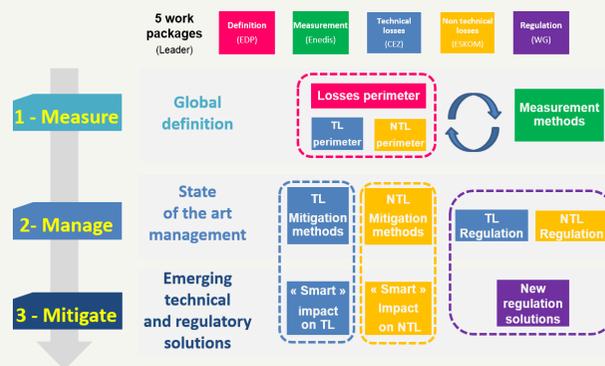
The reduction of distribution losses represents a specific issue for each DSO, due to heterogeneous levels of both technical (TL) and non-technical (NTL) losses, but also due to differences on definition, measurement or regulation of losses. This reveals a real concern in proposing a global framework, which would be general enough to include all DSO situations about losses and specific enough to bring adapted answer to losses management.



In order to tackle these questions, CIRED has engaged a Working Group on the reduction of distribution losses, which proposes a three steps approach for 1. Measuring, 2. Managing and 3. Mitigating distribution losses.

Report Elaboration

This work of data collection has first been initiated on specific issues, amongst each WG package, and then aggregated in the report in a global and coherent approach (Cf. Figure).



In the end, the report reflects this global approach on losses (from measurement to mitigation), but also respects the WG organization in work packages, in order to propose an “à la carte” approach for the reader.

Structure of the final report

The group has set up different work packages, dealing with each expected issue on losses.

This report consists of 5 parts, which are constituted by the main results of each WG package:

- Definition of power losses;
- Measurement of Power losses;
- Technical Losses;
- Non-Technical Losses;
- Regulation leverage.

The report is completed by:

- A global introduction;
- Appendixes on Technical Losses and Non-Technical Losses;

INTERNATIONAL CONFERENCE ON ELECTRICITY DISTRIBUTION

