



WETS D'11

Jicable Workshop



Jicable | Club Jicable | WETS D'11 | Prospective 2100

*Please fill this questionnaire using acrobat reader,
print the form to keep an archive of your answers,
then use the submit button to send the form to M. Lucien Deschamps at deschamps2100.org*

WETS D'11

QUESTIONNAIRE

World Energy Transmission System

Renewal of cable distribution networks

Contact

Name : Surname :

Company :

Address :

Tel : Fax :

Email :

1 - Identification and characterization of the network

1.1 - Geographical situation :

Country :

Area :

1.2 - Characteristics of the MV network :

MV network :

Nominal voltage(s) :

Total length (km) :

Underground cables (km) :

Overhead lines (km) :

1.3 - Characteristics of MV links (cables and accessories) :

Cable type							Total
Technology							
Period of building							
Nominal voltage (s)							
Length (km)							
Number of accessories							

1.4 - Characteristics of the LV network :

LV network :

Nominal voltage(s) :

Total length (km) :

Underground cables (km) :

Overhead lines (km) :

1.5 - Characteristics of the LV links (cables and accessories) :

Cable type							Total
Technology							
Period of building							
Nominal voltage (s)							
Length (km)							
Number of accessories							

1.6 - Publications or available documents concerning this network :

2 - History of the installation of underground cables and overhead lines in the network.

2.1 - Underground network age structure :

2.2 - Overhead network age structure :

3 - Statistics on the reliability of links.

3.1 - Underground network :

3.2 - Overhead network :

3.3 - Comments :

4 - Aging process.

4.1 - Physicochemical processes :

4.2 - Bath tube curve ? :

4.3 - At what point, and what signs can we fear an acceleration of the degradation of reliability ? :

5 - Diagnosis of aging and estimation of the residual life :

5.1 - What methods ? :

5.2 - What feedback on these methods ? :

6 - Impact of global warming:

7 - Behavior of cables in hot conditions :

7.1 - Feedback :

7.2 - Influence of installation conditions :

7.3 - Changes over time ? :

8 - Renewal :

8.1 - Selective replacement of accessories to complete renewal of a network : what strategy ?

8.2 - What technical and economical justification ? :

9 - Urban renewal

9.1 - What strategy ? :

9.2 - Opportunity to change the structure of networks ? :

10 - Technologies : what progress can we expect ?

10.1 - Cables :

10.2 - Accessories :