Title: Network and Reliability Data.

Description:

There are six sheets of data in the corresponding excel file:

1. Taiwan Power Company (TPC) Distribution System (DS) load data, obtained from [[1](#_ENREF_1)].
2. TPC DS branch data, obtained from [[1](#_ENREF_1)].
3. Roy Billinton Test System (RBTS) Bus 4 DS feeder types and lengths as well as customer data, obtained from [[2](#_ENREF_2)].
4. Component reliability data, obtained from [[2](#_ENREF_2)].
5. Condition-based failure rate data, obtained from [[3](#_ENREF_3)].
6. Customer interruption cost data, obtained from [[4](#_ENREF_4)].

Keywords: See Description.

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Funders: EPSRC, UK; Siemens PLC, UK.

Access conditions: The data have been obtained from the references listed below.

**References**

1. [1] C.-T. Su, C.-F. Chang, and J.-P. Chiou, "Distribution network reconfiguration for loss reduction by ant colony search algorithm," *Elect. Power Syst. Res.,* vol. 75, pp. 190-199, Aug. 2005.
2. [2] R. N. Allan, R. Billinton, I. Sjarief, L. Goel, and K. S. So, "A reliability test system for educational purposes – Basic distribution system data and results," *IEEE Trans. Power Syst.,* vol. 6, pp. 813-820, May 1991.
3. [3] R. E. Brown, G. Frimpong, and H. L. Willis, "Failure rate modeling using equipment inspection data," *IEEE Trans. Power Syst.,* vol. 19, pp. 782-787, May 2004.
4. [4] R. Billinton and R. N. Allan, *Reliability Evaluation of Power Systems*, 2nd ed. New York: Plenum, 1996.