Title: Network and Substation Loading Data.

Description:

There are 14 sheets of data in the corresponding excel file:

1) Taiwan Power Company (TPC) Distribution Network (DN) load data, obtained from [[1](#_ENREF_1)].

2) TPC DN branch data, obtained from [[1](#_ENREF_1)].

3-14) Substation loading data for four seasons and three redundancy levels. Six years of data. Hourly resolution. Obtained from [[2](#_ENREF_2)]. Original data from [[3](#_ENREF_3)], and adjusted (and disaggregated into separate load point loading profiles) according to Appendix 5 of [[4](#_ENREF_4)].

**References**

[1] C.-T. Su and C.-S. Lee, "Network reconfiguration of distribution systems using improved mixed-integer hybrid differential evolution," IEEE Trans. Power Del., vol. 18, no. 3, pp. 1022-1027, 2003, doi: 10.1109/TPWRD.2003.813641.

[2] I. Sarantakos, D. M. Greenwood, N.-M. Zografou-Barredo, V. Vahidinasab, and P. C. Taylor, "A probabilistic method to quantify the capacity value of load transfer," Int. J. Elect. Power Energy Syst., 2020, doi: <https://doi.org/10.1016/j.ijepes.2020.106238>.

[3] D. Greenwood, N. Wade, N. Heyward, P. Mehta, P. Taylor, and P. Papadopoulos, "Scheduling power and energy resources on the smarter network storage project," in 23rd Int. Conf. Exhibition on Electricity Distribution (CIRED), Lyon, France, 2015.

[4] I. Sarantakos, "Investigating the Impact of Asset Condition on Distribution Network Reconfiguration and its Capacity Value," PhD Thesis, Newcastle University, UK, 2019.