Energy-efficiency vs. resilience
Code for optimization procedures and simulations

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To reproduce the steps of the algorithm presented in the paper, save attached files to a common directory and provide required tools.

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SOFTWARE REQUIREMENTS

- MATLAB (including MATLAB Compiler): http://www.mathworks.com/products/matlab/
This CPLEX data presents data suitable for the Poland network and the fine-grained risk optimization, when reserved capacity is a basis for the budget calculation.
capacity_usage = [[390, 474, 522, 202, 396, 316, 546, 462, 700, 122, 456, 179, 351, 210, 318, 396, 189, 498],
                   [2.389781e+02, 8.553332e+02, 4.019117e+02, 8.880943e+02, 8.567492e+02, 4.587187e+02, 3.356626e+02, 3.803685e+02, 5.507132e+02, 2.187137e+02, 4.199831e+02, 3.288080e+02, 2.439332e+02, 2.399499e+02, 2.354247e+02, 3.968853e+02, 2.831665e+02, 4.628371e+02, 2.739142e+02, 2.420223e+02],
                   [4.933995e+02, 6.633367e+02, 1.152848e+03, 1.132603e+03, 3.921167e+02, 4.139788e+02, 6.327691e+02, 6.097467e+02, 2.245140e+02, 1.838776e+02, 4.757201e+02, 1.400697e+02, 4.398791e+02, 7.397190e+02, 5.533322e+02, 4.019117e+02, 8.880943e+02, 8.567492e+02, 4.587187e+02, 3.357235e+02]]