Cables

Minimal spanning tree

The company should replace the existing electricity power network (wires) with cables located in the ground. The following graph shows 8 villages (nodes 2 – 9) between which a cable connection has to be realized. Node 1 represents a transformer from which electrical power will be distributed. For each arc, an estimate of the total cost (in thousands of Euro) of excavation and cable is given. The company should propose to the investor how the villages will be connected by cable to minimize the total costs.

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Electricity transformer

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