



Agent based Energy Management Systems

By Martin Wolter

Shaker Verlag Nov 2012, 2012. Buch. Condition: Neu. Neuware - In liberalized, regulated energy markets, the different participants - namely producers and consumers of energy, transmission and distribution system operators as well as regulatory authorities - have partly divergent and partly convergent interests. Loads, power plants and grid operators try to maximize their own benefit in this highly complex environment accepting to act detrimentally to others. Although the relationship between the participants is mostly competitive, there are some fundamental shared interests, e.g. voltage stability, a constant system frequency or efficient energy production, transmission and distribution, which are endangered e.g. by increased injection of volatile sources in low and medium voltage grids, displacement of stabilizing bulk generation and the slowly progressing extension of the electric grid. There is a global consensus, that the resulting challenges can efficiently be faced using information and communication technologies to coordinate grid utilization and operation. The basic idea is to benefit from unused reserves by participating in deployment of system services e.g. reactive power supply to keep the voltage within certain bounds. The coordination can best be done by the grid operator. All activities of that kind are summarized under the umbrella term 'Smart Grid'. To...



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