

Title (en)
System for assigning an energy consumer to an energy provider

Title (de)
System zur Zuweisung eines Energieverbrauchers an einen Energieversorger

Title (fr)
Système d'affectation d'un consommateur d'énergie à un fournisseur d'énergie

Publication
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Application
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Priority
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Abstract (en)
The invention relates to a system for assigning at least one energy consumer to at least one energy provider comprising: a consumer preferences retrieval device configured to retrieve data on at least one of the following: at least one consumption data, at least one desired source of energy, a location of the at least one energy consumer; a data retrieval device, wherein the data retrieval device is configured to gather continuously or in time intervals data from a plurality of energy providers comprising at least one energy production provider and/or at least one energy storage provider and from at least one energy grid provider, and preferably from at least one regulator and/or at least one meta-information source; a prediction engine device, wherein the prediction engine device is configured to predict a demand of energy based on the data gathered by the consumer preferences retrieval device and a production of energy based on the data gathered by the data retrieval device; and a ranking engine device, wherein the ranking engine device is configured to rank pairs of energy consumers and candidate energy providers or preferably to rank triples of energy consumers, candidate energy providers and candidate energy grid provider under consideration of the data gathered by the consumer preferences retrieval device, the data gathered by the data retrieval device and the prediction performed by the prediction engine device. The invention also relates to a system for joint optimization of energy availability and network capacity in an energy grid using at least one of the following: load balancing, transport loss minimization, stable operation of the power supply, in particular without oscillations, and robust power supply, using a system for assigning at least one energy consumer to at least one energy provider.

IPC 8 full level
G06Q 50/06 (2012.01)

CPC (source: EP)
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Citation (applicant)
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CN106211214A; CN110476313A

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