

عنوان مقاله:

Retailer Participation in Demand Response Exchange Market

محل انتشار:

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خلاصه مقاله:

There are many independent players, such as transmission system owner (TSO), distributors, retailers, and aggregators, who benefit from demand response (DR). DR can be treated as a tradable good to be exchanged between DR buyers and sellers in a demand response exchange (DRX) scheme. DR buyers want to improve the reliability of their own electricity dependent businesses and systems. Sellers of DR have the capacity to significantly modify electricity demand. There is a demand response exchange operator (DRXO), which collects DR offers and bids from the buyers and sellers. A novel approach has been presented for retailer bidding in a DRX market. In the proposed approach, at the first step, the retailer should forecast the load and price in the energy market. A simplified model which can be used instead of complex ones for forecasting is proposed. At the next step, retailer participation procedure in a DRX market is defined based on the hourly price and load models. The proposed scheme is tested on California and Spain markets. The results show the efficiency and accuracy of the proposed approach

کلمات کلیدی:

Demand response exchange; load and price hourly model; retailer bidding

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