

ABSTRACT

ENERGY MANAGEMENT OVER A BLOCKCHAIN NETWORK

Disclosed herein is an energy management system (200) over a blockchain network (108). Data acquisition module (222) obtains real-time energy data from energy sources (106a-106n) associated with each of entities (102a-102n). Prediction module (224) predicts energy data for predefined subsequent period corresponding to each of the entities (102a-102n) based on the obtained real-time energy data, using an Artificial Intelligence (AI) model, and encrypts the obtained real-time energy data and the predicted energy data. Energy management module (226) tracks a trend profile associated with each of the entities based on the encrypted data. The energy management module (226) determines whether an amount of energy generated from the energy sources (106a-106n) associated with each of the entities (102a-102n) falls within a predefined threshold range. Energy-exchange module (228) generates energy exchanging recommendations for each of the entities (102a-102n) based on determining that the amount of energy generated falls out of the predefined threshold range.

FIG. 1