

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311028397 A

(19) INDIA

(22) Date of filing of Application :19/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM AND METHOD FOR RENEWABLE ENERGY TRADING AND MANAGEMENT

(51) International classification :C10G 020000, C25B 010400, F03D 150000, G06Q 400400, H02J 033800  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Chitkara University**

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

**2)Bluest Mettle Solutions Private Limited**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

**1)MISHRA, Rahul**

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

**2)PANDEY, Sakshi**

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

**3)GILL, Rupali**

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure relates to a system (100) for managing renewable energy trading using a decentralized database (112) and a blockchain network (104) connected to multiple computing devices (106). The system includes an artificial intelligence (AI) engine (102) that uses an allocation mechanism to create incentives for good behavior and optimize power flows. The AI engine (102) receives information on units produced by trading agents for trading with customers and energy retail providers. The system provides a single point of access to transaction data for all entities and a system operator. This system aims to facilitate renewable energy trading and ensure efficient and transparent transactions in the market.

No. of Pages : 26 No. of Claims : 10