

(54) Title of the invention : AI-BASED INTELLIGENT LOAD SHARING IN INTEGRATING RENEWABLE POWER PLANTS IN THE EXISTING NETWORK

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(57) Abstract :  
 The embodiments herein relates to a system (100) and method for AI-based intelligent load sharing in integrating renewable power plants in the existing network. The system (100) includes renewable energy sources based electricity generators (102 A-C), an electricity grid (104), and an AI controller module (106). The AI controller module (106) includes a RES A-C data collection module (302 A-C), a grid data collection module (304), a feedback module (312), a data processing & condition prediction module (306), a real-time decision making module (308), a relay controller activation module (310), and a model training & learning module (314). The AI controller module (106) that configured to access the renewable energy sources based on electricity generators (102 A-C) data and the electricity grid (104) data and it activates the relay controller modules (202 A-N). This system facilitates the maximum utilization of renewable energy-based electricity by optimum utilization of the existing electrical grid.

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