

(54) Title of the invention : A DISTRIBUTED NETWORK FOR RENEWABLE ENERGY SOURCES USING REMOTE CONTROL SYSTEM

(51) International classification :H02J0003380000, G06Q0050060000, H02J0003000000,
H02J0003320000, H02J0013000000

(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)Mr. Polepogu Rajesh

Address of Applicant :Assistant Professor, Department of Electronics & Instrumentation Engineering, School of Engineering, Siddhartha Academy of Higher Education (SAHE), An Institution Deemed to be University, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India, Pin Code: 520007 -----

2)Dr. Anumala Vijayasankar

3)Dr. Panguluri Vinodh Babu

4)Mr. D.Srinivasa Rakesh

5)Ms. Duvvu Sravani

6)Ms. Nanduri Bhanusree

7)Mr. Musinala Syam Sundar

8)Mr. Tipireddy Sesidhar Reddy

9)Mr. Sanku Akhil

10)Mr. Taadi Vasanth Kumar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Polepogu Rajesh

Address of Applicant :Assistant Professor, Department of Electronics & Instrumentation Engineering, School of Engineering, Siddhartha Academy of Higher Education (SAHE), An Institution Deemed to be University, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India, Pin Code: 520007 -----

2)Dr. Anumala Vijayasankar

Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering, School of Engineering, Siddhartha Academy of Higher Education (SAHE), An Institution Deemed to be University, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India, Pin Code: 520007 -----

3)Dr. Panguluri Vinodh Babu

Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering, Bapatla Engineering College (Autonomous), Bapatla, Bapatla District, Andhra Pradesh, India, Pin Code: 522101 -----

4)Mr. D.Srinivasa Rakesh

Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, G. Pullaiah College of Engineering and Technology, Near Venkayapalle, Pasupala Village, Kurnool District, Andhra Pradesh, India, Pin Code: 518002 -----

5)Ms. Duvvu Sravani

Address of Applicant :III/IV B. Tech Student, Department of Electronics & Instrumentation Engineering, School of Engineering, Siddhartha Academy of Higher Education (SAHE), An Institution Deemed to be University, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India, Pin Code: 520007 -----

6)Ms. Nanduri Bhanusree

Address of Applicant :III/IV B. Tech Student, Department of Electronics & Instrumentation Engineering, School of Engineering, Siddhartha Academy of Higher Education (SAHE), An Institution Deemed to be University, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India, Pin Code: 520007 -----

7)Mr. Musinala Syam Sundar

Address of Applicant :III/IV B. Tech Student, Department of Electronics & Instrumentation Engineering, School of Engineering, Siddhartha Academy of Higher Education (SAHE), An Institution Deemed to be University, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India, Pin Code: 520007 -----

8)Mr. Tipireddy Sesidhar Reddy

Address of Applicant :III/IV B. Tech Student, Department of Electronics & Instrumentation Engineering, School of Engineering, Siddhartha Academy of Higher Education (SAHE), An Institution Deemed to be University, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India, Pin Code: 520007 -----

9)Mr. Sanku Akhil

Address of Applicant :III/IV B. Tech Student, Department of Electronics & Instrumentation Engineering, School of Engineering, Siddhartha Academy of Higher Education (SAHE), An Institution Deemed to be University, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India, Pin Code: 520007 -----

10)Mr. Taadi Vasanth Kumar

Address of Applicant :III/IV B. Tech Student, Department of Electronics & Instrumentation Engineering, School of Engineering, Siddhartha Academy of Higher Education (SAHE), An Institution Deemed to be University, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India, Pin Code: 520007 -----

(57) Abstract :

The present invention relates to a Distributed network for renewable energy sources using remote control system. The present invention comprises a plurality of renewable energy generation units configured to generate energy from renewable sources, a plurality of energy storage systems configured to store excess energy generated by the renewable energy generation units, a remote control unit configured to collect real-time data from the renewable energy generation units and energy storage systems, and a communication interface for remotely monitoring and controlling the operation of the renewable energy generation units. The remote control system uses machine learning interface to analyze historical and real-time data for optimizing the generation, storage, and distribution of renewable energy, including load forecasting and demand response strategies. Accompanied Drawing [FIG. 1]

No. of Pages : 22 No. of Claims : 6