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(71)Name of Applicant:

1)V NAGARAJ

Address of Applicant :S/o. G VARATHARAJ, ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, KNOWLEDGE INSTITUTE OF TECHNOLOGY, KNOWLEDGE COLLEGE ROAD, KAKAPALAYAM, SALEM - 637504 ,TAMIL

2)Dr. T R SUMITHIRA 3)Dr. K SAKUNTHALA 4)ACHARYA SUPRIYA PAVITHRAN

5)B RAMESH 6)Dr. P SHOBHARANI

7)Dr. GUNJAN SHUKLAA 8)D V JEYANTHI

9)B CHITRADEVI

10)M SATHISH KUMAR Name of Applicant : NA

Address of Applicant : NA (72)Name of Inventor :

1)V NAGARAJ

Address of Applicant :S/o. G VARATHARAJ, ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, KNOWLEDGE INSTITUTE OF TECHNOLOGY, KNOWLEDGE COLLEGE ROAD, KAKAPALAYAM, SALEM - 637504 ,TAMIL NADU. INDIA

2)Dr. T R SUMITHIRA

Address of Applicant :D/o. T RAMALINGAM, ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, GOVERNMENT COLLEGE OF ENGINEERING -SALEM, BANGALORE HIGHWAYS, SALEM - 636 011, TAMIL NADU, INDIA

3)Dr. K SAKUNTHALA

3)DI: K SAKUNTHALA Address of Applicant : D). C KARUPPUSAMY, ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, GOVERNMENT COLLEGE OF ENGINEERING - SALEM, BANGALORE HIGHWAYS, SALEM - 636 011, TAMIL NADU, INDIA. ---------

4)ACHARYA SUPRIYA PAVITHRAN

Address of Applicant :D/o. PAVITHRAN, RESEARCH SCHOLAR, GARDEN CITY UNIVERSITY, HOUSE No. 31, 3RD MAIN, FCI ROAD, N R LAYOUT, VIJINAPURA, BANGALORE – 560016,

KARNATAKA, INDIA -5)B RAMESH

Address of Applicant :S/o. A K BALASUBRAMANI, ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, ANNAPOORANA ENGINEERING COLLEGE, NH - 47 PERIYASEERAGAPADI (PO), SALEM - 636 308, TAMIL NADU, INDIA. --

6)Dr. P SHOBHARANI

Address of Applicant :D/o. P SURENDRANATH, ASSISTANT PROFESSOR, DEPARTMENT OF BASIC SCIENCES, G NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE, HOUSE No. 10-3-14/B/4/1B, HUMAYUN NAGAR, MEHIDIPATNAM, HYDERABAD - 500028, TELANGANA, INDIA. --

7)Dr. GUNJAN SHUKLAA Address of Applicant :D/o. SHRI R.K SHUKLA, HEAD OF THE DEPARTMENT, DEPARTMENT OF MANAGEMENT, RENAISSANCE UNIVERSITY, MR1- 276, MAHALAXMI NAGAR, NEAR SUNCITY, INDORE - 452010, MADHYA PRADESH, INDIA. -------

8)D V JEYANTHI

Address of Applicant :D/o. D S VIDHYA POORNA CHARY, ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, SOURASHTRA COLLEGE, HOUSE No. D1, VARSHA, VASUDHARA ENCLAVE, 84, TPK ROAD, MADURAI – 625003, TAMIL NADU, INDIA.

9)B CHITRADEVI

Address of Applicant :D/o. BHUVARAHAMURTHY G, ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, THANTHAI HANS ROEVER COLLEGE (AUTONOMOUS), NO.6-4/N, MELA PERUMAL KOIL STREET, PENNADAM & POST, TITTAKUDI (TALUK), CUDDALORE - 606 105, TAMIL NADU, INDIA

10)M SATHISH KUMAR

Address of Applicant :S/o. S MUTHU KARUPPAN, DOCTORAL RESEARCH SCHOLAR, DEPARTMENT OF COMPUTER APPLICATIONS, MADURAI KAMARAJ UNIVERSITY, 142, PERIYAR NAGAR, MADAKULAM, MADURAI - 625003, TAMIL NADU, INDIA.

The present invention is a long-term sustainable Demand-Response (DR) architecture for the efficient management of available energy consumption for Internet of Things (IoT) infrastructures. The proposal uses Network Functions Virtualization (NFV) and Software Defined Networking (SDN) technologies as enablers and promotes the primary use of energy from renewable sources. Associated with architecture, this paper presents a novel consumption model conditioned on availability and in which the consumers are part of the management process. To efficiently use the energy from renewable and non-renewable sources, several management strategies are herein proposed, such as prioritization of the energy supply and workload scheduling using time-shifting capabilities. The complexity of the proposal is analyzed in order to present an appropriate architectural framework.

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