**Editor In Chief**

Dr. Shiv K Sahu  
Ph.D. (CSE), M.Tech. (IT, Honors), B.Tech. (IT)  
Director, Blue Eyes Intelligence Engineering & Sciences Publication Pvt. Ltd., Bhopal (M.P.), India

Dr. Shachi Sahu  
Ph.D. (Chemistry), M.Sc. (Organic Chemistry)  
Additional Director, Blue Eyes Intelligence Engineering & Sciences Publication Pvt. Ltd., Bhopal(M.P.), India

**Vice Editor In Chief**

Dr. Vahid Nourani  
Professor, Faculty of Civil Engineering, University of Tabriz, Iran

Prof. (Dr.) Anuranjan Misra  
Professor & Head, Computer Science & Engineering and Information Technology & Engineering, Noida International University, Noida (U.P.), India

**Chief Advisory Board**

Prof. (Dr.) Hamid Saremi  
Vice Chancellor of Islamic Azad University of Iran, Quchan Branch, Quchan-Iran

Dr. Uma Shanker  
Professor & Head, Department of Mathematics, CEC, Bilaspur(C.G.), India

Dr. Rama Shanker  
Professor & Head, Department of Statistics, Eritrea Institute of Technology, Asmara, Eritrea

Dr. Vinita Kumari  
Blue Eyes Intelligence Engineering & Sciences Publication Pvt. Ltd., India

Dr. Kapil Kumar Bansal  
Head (Research and Publication), SRM University, Gaziabad (U.P.), India

Dr. Deepak Garg  
Professor, Department of Computer Science and Engineering, Thapar University, Patiala (Punjab), India, Senior Member of IEEE, Secretary of IEEE Computer Society (Delhi Section), Life Member of Computer Society of India (CSI), Indian Society of Technical Education (ISTE), Indian Science Congress Association Kolkata.

Dr. Vijay Anant Athavale  
Director of SVS Group of Institutions, Mawana, Meerut (U.P.) India/ U.P. Technical University, India

Dr. T.C. Manjunath  
Principal & Professor, HKBK College of Engg, Nagawara, Arabic College Road, Bengaluru-560045, Karnataka, India

Dr. Kosta Yogeshwar Prasad  
Director, Technical Campus, Marwadi Education Foundation’s Group of Institutions, Rajkot-Morbi Highway, Gauridad, Rajkot, Gujarat, India

Dr. Dinesh Varshney  
Director of College Development Counseling, Devi Ahilya University, Indore (M.P.), Professor, School of Physics, Devi Ahilya University, Indore (M.P.), and Regional Director, Madhya Pradesh Bhoj (Open) University, Indore (M.P.), India

Dr. P. Dananjayan  
Professor, Department of Department of ECE, Pondicherry Engineering College, Pondicherry,India

Dr. Sadhana Vishwakarma  
Associate Professor, Department of Engineering Chemistry, Technocrat Institute of Technology, Bhopal(M.P.), India

Dr. Kamal Mehta  
Associate Professor, Deptment of Computer Engineering, Institute of Technology, NIRMA University, Ahmedabad (Gujarat), India

Dr. CheeFai Tan  
Faculty of Mechanical Engineering, University Technical, Malaysia Melaka, Malaysia

Dr. Suresh Babu Perli  
Professor & Head, Department of Electrical and Electronic Engineering, Narasaraopeta Engineering College, Guntur, A.P., India
Dr. Binod Kumar
Associate Professor, School of Engineering and Computer Technology, Faculty of Integrative Sciences and Technology, Quest International University, Ipoh, Perak, Malaysia

Dr. Chiladze George
Professor, Faculty of Law, Akhaltsikhe State University, Tbilisi University, Georgia

Dr. Kavita Khare
Professor, Department of Electronics & Communication Engineering., MANIT, Bhopal (M.P.), INDIA

Dr. C. Saravanan
Associate Professor (System Manager) & Head, Computer Center, NIT, Durgapur, W.B. India

Dr. S. Saravanan
Professor, Department of Electrical and Electronics Engineering, Muthayamal Engineering College, Resipuram, Tamilnadu, India

Dr. Amit Kumar Garg
Professor & Head, Department of Electronics and Communication Engineering, Maharishi Markandeshwar University, Mulllana, Ambala (Haryana), India

Dr. T.C.Manjunath
Principal & Professor, HKBK College of Engg, Nagawara, Arabic College Road, Bengaluru-560045, Karnataka, India

Dr. P. Dananjayan
Professor, Department of Department of ECE, Pondicherry Engineering College, Pondicherry, India

Dr. Kamal K Mehta
Associate Professor, Department of Computer Engineering, Institute of Technology, NIRMA University, Ahmedabad (Gujarat), India

Dr. Rajiv Srivastava
Director, Department of Computer Science & Engineering, Sagar Institute of Research & Technology, Bhopal (M.P.), India

Dr. Chakunta Venkata Guru Rao
Professor, Department of Computer Science & Engineering, SR Engineering College, Ananthasagar, Warangal, Andhra Pradesh, India

Dr. Anuranjan Misra
Professor, Department of Computer Science & Engineering, Bhagwant Institute of Technology, NH-24, Jindal Nagar, Ghaziabad, India

Dr. Robert Brian Smith
International Development Assistance Consultant, Department of AEC Consultants Pty Ltd, AEC Consultants Pty Ltd, Macquarie Centre, North Ryde, New South Wales, Australia

Dr. Saber Mohamed Abd-Allah
Associate Professor, Department of Biochemistry, Shanghai Institute of Biochemistry and Cell Biology, Yue Yang Road, Shanghai, China

Dr. Himani Sharma
Professor & Dean, Department of Electronics & Communication Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal, Hyderabad, India

Dr. Sahab Singh
Associate Professor, Department of Management Studies, Dronacharya Group of Institutions, Knowledge Park-III, Greater Noida, India

Dr. Umesh Kumar
Principal: Govt Women Poly, Ranchi, India

Dr. Syed Zaheer Hasan
Scientist-G Petroleum Research Wing, Gujarat Energy Research and Management Institute, Energy Building, Pandit Deendayal Petroleum University Campus, Raisan, Gandhinagar-382007, Gujarat, India.

Dr. Jaswant Singh Bhomrah
Director, Department of Profit Oriented Technique, 1 – B Crystal Gold, Vimalpore Road, Navsari 396445, Gujarat, India
Technical Advisory Board

Dr. Mohd. Husain
Director. MG Institute of Management & Technology, Banthara, Lucknow (U.P.), India

Dr. T. Jayanthy
Principal. Panimalar Institute of Technology, Chennai (TN), India

Dr. Umesh A.S.
Director, Technocrats Institute of Technology & Science, Bhopal(M.P.), India

Dr. B. Kanagasabapathi
Infosys Labs, Infosys Limited, Center for Advance Modeling and Simulation, Infosys Labs, Infosys Limited, Electronics City, Bangalore, India

Dr. C.B. Gupta
Professor, Department of Mathematics, Birla Institute of Technology & Sciences, Pilani (Rajasthan), India

Dr. Sunandan Bhunia
Associate Professor & Head., Dept. of Electronics & Communication Engineering, Haldia Institute of Technology, Haldia, West Bengal, India

Dr. Jaydeb Bhaumik
Associate Professor, Dept. of Electronics & Communication Engineering, Haldia Institute of Technology, Haldia, West Bengal, India

Dr. Rajesh Das
Associate Professor, School of Applied Sciences, Haldia Institute of Technology, Haldia, West Bengal, India

Dr. Mrutyunjaya Panda
Professor & Head, Department of EEE, Gandhi Institute for Technological Development, Bhubaneswar, Odisha, India

Dr. Mohd. Nazri Ismail
Associate Professor, Department of System and Networking, University of Kuala (UniKL), Kuala Lumpur, Malaysia

Dr. Haw Su Cheng
Faculty of Information Technology, Multimedia University (MMU), Jalan Multimedia, 63100 Cyberjaya

Dr. Hossein Rajabalipour Cheshmehgaz
Industrial Modeling and Computing Department, Faculty of Computer Science and Information Systems, Universiti Teknologi Malaysia (UTM) 81310, Skudai, Malaysia

Dr. Sudhinder Singh Chowhan
Associate Professor, Institute of Management and Computer Science, NIMS University, Jaipur (Rajasthan), India

Dr. Neeta Sharma
Professor & Head, Department of Communication Skills, Technocrat Institute of Technology, Bhopal(M.P.), India

Dr. Ashish Rastogi
Associate Professor, Department of CSIT, Guru Ghansi Das University, Bilaspur (C.G.), India

Dr. Santosh Kumar Nanda
Professor, Department of Computer Science and Engineering, Eastern Academy of Science and Technology (EAST), Khurda (Orisa), India

Dr. Hai Shanker Hota
Associate Professor, Department of CSIT, Guru Ghansi Das University, Bilaspur (C.G.), India

Dr. Sunil Kumar Singla
Professor, Department of Electrical and Instrumentation Engineering, Thapar University, Patiala (Punjab), India

Dr. A. K. Verma
Professor, Department of Computer Science and Engineering, Thapar University, Patiala (Punjab), India

Dr. Durgesh Mishra
Chairman, IEEE Computer Society Chapter Bombay Section, Chairman IEEE MP Subsection, Professor & Dean (R&D), Acropolis Institute of Technology, Indore (M.P.), India

Dr. Xiaoguang Yue
Associate Professor, College of Computer and Information, Southwest Forestry University, Kunming (Yunnan), China
Dr. Veronica Mc Gowan  
Associate Professor, Department of Computer and Business Information Systems, Delaware Valley College, Doylestown, PA, Allman China

Dr. Mohd. Ali Hussain  
Professor, Department of Computer Science and Engineering, Sri Sai Madhavi Institute of Science & Technology, Rajahmundry (A.P.), India

Dr. Mohd. Nazri Ismail  
Professor, System and Networking Department, Jalan Sultan Ismail, Kaula Lumpur, MALAYSIA

Dr. Sunil Mishra  
Associate Professor, Department of Communication Skills (English), Dronacharya College of Engineering, Farrukhnagar, Gurgaon (Haryana), India

Dr. Labib Francis Gergis Rofaiel  
Associate Professor, Department of Digital Communications and Electronics, Misr Academy for Engineering and Technology, Mansoura City, Egypt

Dr. Pavol Tanuska  
Associate Professor, Department of Applied Informatics, Automation, and Mathematics, Trnava, Slovakia

Dr. VS Giridhar Akula  
Professor, Avanthi’s Research & Technological Academy, Gunthapally, Hyderabad, Andhra Pradesh, India

Dr. S. Satyanarayana  
Associate Professor, Department of Computer Science and Engineering, KL University, Guntur, Andhra Pradesh, India

Dr. Bhupendra Kumar Sharma  
Associate Professor, Department of Mathematics, KL University, BITS, Pilani, India

Dr. Praveen Agarwal  
Associate Professor & Head, Department of Mathematics, Anand International College of Engineering, Jaipur (Rajasthan), India

Dr. Manoj Kumar  
Professor, Department of Mathematics, Rashtriya Kishan Post Graduate Degree College, Shamli, Prabudh Nagar, (U.P.), India

Dr. Shaikh Abdul Hannan  
Associate Professor, Department of Computer Science, Vivekanand Arts Sardar Dalip Singh Arts and Science College, Aurangabad (Maharashtra), India

Dr. K.M. Pandey  
Professor, Department of Mechanical Engineering, National Institute of Technology, Silchar, India

Prof. Pranav Parashar  
Technical Advisor, International Journal of Soft Computing and Engineering (IJSCE), Bhopal (M.P.), India

Dr. Biswajit Chakraborty  
MECON Limited, Research and Development Division (A Govt. of India Enterprise), Ranchi-834002, Jharkhand, India

Dr. D.V. Ashoka  
Professor & Head, Department of Information Science & Engineering, SJB Institute of Technology, Kengeri, Bangalore, India

Dr. Sasidhar Babu Suvanam  
Professor & Academic Coordinator, Department of Computer Science & Engineering, Sree Narayana Gurukulam College of Engineering, Kadaiyuruppu, Kolenchery, Kerala, India

Dr. C. Venkatesh  
Professor & Dean, Faculty of Engineering, EBET Group of Institutions, Kangayam, Erode, Caimbatore (Tamil Nadu), India

Dr. Nilay Khare  
Assoc. Professor & Head, Department of Computer Science, MANIT, Bhopal (M.P.), India

Dr. Sandra De Iaco  
Professor, Dip.to Di Scienze Dell’Economia-Sez. Matematico-Statistica, Italy
Dr. Gufran Ahmad Ansari
Associate Professor, Department of Information Technology, College of Computer, Qassim University, Al-Qassim, Kingdom of Saudi Arabia (KSA)

Dr. R. Navaneetha krishnan
Associate Professor, Department of MCA, Bharathiyar College of Engg & Tech, Karaikal Puducherry, India

Dr. Hossein Rajabalipour Cheshmejgaz
Industrial Modeling and Computing Department, Faculty of Computer Science and Information Systems, Universiti Teknologi Skudai, Malaysia

Dr. Veronica McGowan
Associate Professor, Department of Computer and Business Information Systems, Delaware Valley College, Doylestown, PA, Allman China

Dr. Sanjay Sharma
Associate Professor, Department of Mathematics, Bilhai Institute of Technology, Durg, Chhattisgarh, India

Dr. Taghreed Hashim Al-Noor
Professor, Department of Chemistry, Ibn-Al-Haitham Education for pure Science College, University of Baghdad, Iraq

Dr. Madhumita Dash
Professor, Department of Electronics & Telecommunication, Orissa Engineering College, Bhubaneswar, Odisha, India

Dr. Anita Sagadevan Ethiraj
Associate Professor, Department of Centre for Nanotechnology Research (CNR), School of Electronics Engineering (Sense), Vellore Institute of Technology (VIT) University, Tamilnadu, India

Dr. Sibasis Acharya
Project Consultant, Department of Metallurgy & Mineral Processing, Midas Tech International, 30 Mokin Street, Jindalee-4074, Queensland, Australia

Dr. Neelam Ruhil
Professor, Department of Electronics & Computer Engineering, Dronacharya College of Engineering, Gurgaon, Haryana, India

Dr. Faizullah Mahar
Professor, Department of Electrical Engineering, Balochistan University of Engineering and Technology, Pakistan

Dr. K. Selvaraju
Head, PG & Research, Department of Physics, Kandaswami Kandars College (Govt. Aided), Velur (PO), Namakkal DT. Tamil Nadu, India

Dr. M. K. Bhanarkar
Associate Professor, Department of Electronics, Shivaji University, Kolhapur, Maharashtra, India

Dr. Sanjay Hari Sawant
Professor, Department of Mechanical Engineering, Dr. J. J. Magdum College of Engineering, Jaysingpur, India

Dr. Arindam Ghosal
Professor, Department of Mechanical Engineering, Dronacharya Group of Institutions, B-27, Part-III, Knowledge Park, Greater Noida, India

Dr. M. Chithirai Pon Selvan
Associate Professor, Department of Mechanical Engineering, School of Engineering & Information Technology Manipal University, Dubai, UAE

Dr. Sambhu Prasad
Professor & Principal, Department of Mechanical Engineering, Pragati College of Engineering, Andhra Pradesh, India

Dr. Muhammad Attique Khan Shahid
Professor of Physics & Chairman, Department of Physics, Advisor (SAAP) at Government Post Graduate College of Science, Faisalabad.

Dr. Kuldeep Pareta
Professor & Head, Department of Remote Sensing/GIS & NRM, B-30 Kailash Colony, New Delhi 110 048, India

Dr. Th. Kiranbala Devi
Associate Professor, Department of Civil Engineering, Manipur Institute of Technology, Takyelpat, Imphal, Manipur, India
Dr. Nirmala Mungamuru
Associate Professor, Department of Computing, School of Engineering, Adama Science and Technology University, Ethiopia

Dr. Srilalitha Girija Kumari Sagi
Associate Professor, Department of Management, Gandhi Institute of Technology and Management, India

Dr. Vishnu Narayan Mishra
Associate Professor, Department of Mathematics, Sardar Vallabhbhai National Institute of Technology, Ichchhanath Mahadev Dumas Road, Surat (Gujarat), India

Dr. Yash Pal Singh
Director/Principal, Somany (P.G.) Institute of Technology & Management, Garhi Bolni Road, Rewari Haryana, India.

Dr. Sripada Rama Sree
Vice Principal, Associate Professor, Department of Computer Science and Engineering, Aditya Engineering College, Surampalem, Andhra Pradesh, India.

Dr. Rustom Mamlook
Associate Professor, Department of Electrical and Computer Engineering, Dhofar University, Salalah, Oman. Middle East.

Managing Editor
Mr. Jitendra Kumar Sen
International Journal of Advanced Engineering and Nano Technology (IJAENT)

Editorial Board
Dr. Saeed Balochian
Associate Professor, Gonaablad Branch, Islamic Azad University, Gonabad, Iran

Dr. Mongey Ram
Associate Professor, Department of Mathematics, Graphics Era University, Dehradun, India

Dr. Arupratan Santra
Sr. Project Manager, Infosys Technologies Ltd, Hyderabad (A.P.)-500005, India

Dr. Ashish Jolly
Dean, Department of Computer Applications, Guru Nanak Khalsa Institute & Management Studies, Yamuna Nagar (Haryana), India

Dr. Israel Gonzalez Carrasco
Associate Professor, Department of Computer Science, Universidad Carlos III de Madrid, Leganes, Madrid, Spain

Dr. Guoxiang Liu
Member of IEEE, University of North Dakota, Grand Forks, N.D., USA

Dr. Khushali Menaria
Associate Professor, Department of Bio-Informatics, Maulana Azad National Institute of Technology (MANIT), Bhopal (M.P.), India

Dr. R. Sukumar
Professor, Sethu Institute of Technology, Pulloor, Kariapatti, Virudhunagar, Tamilnadu, India

Dr. Cherouat Abel
Professor, University of Technology of Troyes, France

Dr. Rinkle Aggrawal
Associate Professor, Department of Computer Science and Engineering, Thapar University, Patiala (Punjab), India

Dr. Parteek Bhatia
Associate Professor, Department of Computer Science & Engineering, Thapar University, Patiala (Punjab), India

Dr. Manish Srivastava
Professor & Head, Computer Science and Engineering, Guru Ghasidas Central University, Bilaspur (C.G.), India
### Volume-2 Issue-9, August 2015, ISSN: 2347-6389 (Online)

**Authors:** Ramy Ahmed Mohamed, Mahmoud Fathy Mahmoud, Hossam Labib Abdel Fattah Zayed  
**Paper Title:** Identification of Persons by Fingerprint Recognition and Verification using Minutiae Extraction Technique with Compression Technique  
**Abstract:** Fingerprint identification and recognition is one of the most common biometric features used for personal recognition. There are many techniques used for finding the features of the fingerprint to manage the way to make it more dependable when matching it with other images of fingerprints. In this paper, the minutiae extraction technique has been used for fingerprint recognition and verification. Two types of compression techniques (Huffman compression code and Arithmetic compression code) have been used to improve the problem of the large size of the storage space of the database used for fingerprint images. Huffman compression technique was the most accurate technique for compression of fingerprint images due to the resulting of the factors of Compression Ratio (CR), Matched score (S), False Matching Ratio (FMR) and False Non Matching Ratio (FNMR), and that when the adaptive threshold has been used to improve the system.  
**Keywords:** Arithmetic code compression, Compression ratio, False matched ratio, False non matched ratio, Fingerprint recognition and verification, Huffman code compression, Matched score.  
**References:**

8. Dr. Younas Javed Department of Computer Engineering, College of Electrical & Mechanical Engineering National University of Sciences & Technology (NUST), Islamabad, Pakistan 2015  

### Authors:** V. G. Khurd, Nitish M. Patil  
**Paper Title:** Experimental Study of Properties of Pervious Concrete as a Pavement Material  
**Abstract:** Pervious concrete also referred to as “No-fine Concrete” or “Porous Concrete” is material comprised of narrowly graded coarse aggregates, cementitious materials, water and admixture and in some cases fibers. Carefully controlled amount of water and cementitious materials are used to create a paste that forms a thick coating around aggregate particles without flowing off during mixing and placing. The pervious concrete is a special high porosity concrete that allows water from precipitation and other sources to pass through, thereby reducing the runoff and recharging ground water level. Its void content ranges from 18 to 35%, compressive strength from 4MPa to 30MPa. The infiltration rate is fall in range of 100 to 750 liter per m2. And due to high void content pervious concrete is also lightweight with density 1600 Kg/m3 to 2100 Kg/m3. Pervious concrete traditionally used in parking areas, area with light traffic, pedestrian walkways and green houses, contributing to sustainable development. In present paper the various mixtures of previous concrete were prepared with different amount of aggregates, cement and fly ash to find the properties like compressive strength, permeability and flexural strength to check its suitability as pavement material..  
**Keywords:** No fines Concrete, Porosity, Infiltration Rate, fly ash, Sustainable development.  
**References:**

1. Obla, K.H., “Pervious Concrete- An overview”, The Indian Concrete Journal, August 2010, pp. 9-18  
10. American Concrete Institute, “Pervious Concrete”, ACI 5222R-06, Detroit, USA, (2006)

Authors: Anuranjan Misra, Upawan Kishor, Md Muazzam
Paper Title: Challenges in Implementing Smart Grid in Power Systems

Abstract: Electricity, considered by most to be energy, is actually an energy currency. Power collected from a variety of sources, such as falling water, burning fuel, wind and solar is used to create electricity for delivery to customers. Electricity has proven to be a convenient and efficient means of delivering energy. Electricity is delivered at the speed of light and is consumed the instant it is created. It is used to store electricity without converting it to another form of energy. As a result, the demand for power, driven by users, must match the supply of power from the available sources (e.g. generators and energy storage devices) at all times. As the Smart Grid continues to evolve, and demand-side management, which is available today, builds on its growing reputation as a cost-effective way for industrial users to manage energy usage and costs, buy-in from both residential and industrial consumers will become simpler. In this paper we have discussed use of ICT in Smart Grid, concept of Smart Grid, Goals and Objectives of Smart Grid, Characteristics of Smart Grid, Smart Grid Applications and Services, and Challenges in Smart Grid.

Keywords: Electricity, ICT, Grid, Smart, power

References:

Authors: Anuranjan Misra, Deshraj, Md Muazzam
Paper Title: Importance for Smart Grid in The ICT Perspective

Abstract: A smart grid is a modernized electrical grid that uses analog or digital information and communications technology to gather and act on information - such as information about the behaviours of suppliers and consumers - in an automated fashion to improve the efficiency, reliability, economics, and sustainability of the production and distribution of electricity. [2] Electronic power conditioning and control of the production and distribution of electricity are important aspects of the smart grid.

Keywords: smart, grid, efficiency, Electronic, power, such

References:

Authors: Anuranjan Misra, Raj Kumar Baghel, Raoashu
Paper Title: Security Considerations in Implementing Smart Grid

Abstract: Smart Grid facilitates efficient and reliable end-to-end intelligent two-way delivery system from source to sink as well as integration of renewable energy sources • Smart grid will be able to coordinate the needs and capabilities of distribution utilities, end users and electricity market stakeholders in such a way. It can optimize asset utilization, resource optimization, control and operation. Reduction in losses, performance improvement • It encompasses Integration of Power, Communication, intelligent devices, intelligent computing system for improved electrical infrastructure that serves consumers with reliability, quality & affordable price • Helps both Utility and consumers to participate in the management of electricity sector including efficient utilization of assets – bringing efficiency and sustainability. In this paper we had discuss Communication Plane, Energy Plane, required Security features.
Keywords: Smart, Grid, efficient, Power, electricity, Energy, Plane, Security, management, coordinate

References:

Authors: Anuranjan Misra, Yogesh Kumar, Md Muazzam

Paper Title: Challenges in Smart Grid of Future

Abstract: Our nation’s infrastructure for generating, transmitting, and distributing electricity – “The Grid” – is a relic based in many respects on century-old technology. It consists of expensive, centralized generation via large plants, and a massive transmission and distribution system. It strives to deliver high- quality power to all subscribers simultaneously – no matter what their demand – and must therefore be sized to the peak aggregate demand at each distribution point. In this paper we describe what the electricity grid could look like in 10 years, and specifically how Federal investment in data analytics approaches is critical to realizing this vision.

Keywords: nation’s, generating, electricity, Grid, power, paper, system

References:

Authors: Anuranjan Misra, S.M. Ashhad Usmani, Md Muazzam

Paper Title: Issues in Implementing Smart Grid in Power Systems

Abstract: In this paper an attempt has been made to analyze the key challenges in implementing the Smart Grid concept in India. In most of the advanced countries Utilities have made major achievements in terms of productivity, reliability, and efficiency through the use of Smart Grid technology. Indian utilities are still lagging far behind when compared to other countries. Today their main focus is on providing energy at reasonable price but soon the day will come when the utilities will be focusing on encompassing sustainable use and environmental improvement into their agendas.

Keywords: concept, India, Smart, Grid, energy, key

References:

References: