



Government College of Engineering and Research Avasari (Kh)

National Conference on Energy and Environment for Sustainable Development 2022

Day 1: 5th July 2022

Session No: 1A

Session Chair: **Dr. Ravi Warkhedkar**

Session Coordinator: **Prof. Abhijeet Kousal**

Session theme: Fundamental Issues and Strategies

Time: 2.00 -3.30 pm

Venue: Seminar Hall, Mechanical Department

Sr. No.	Paper ID	Paper title	Name of the authors
1	001	Energy efficiency enhancement in cellular network	Shruti R. Danve, Manoj S. Nagmode, and Shankar B. Deosarkar
2	058	Battery management system of electric vehicle using passive cell balancing technique	Jaydeep Patil, Abhishek Kumbhar, Mangesh Shinde, Shraddha Shigare, Rutuja Solankar and S Pavitran
3	007	Prediction and Optimization of Thermal Conductivity and Viscosity of Stable Plasmonic TiN 1 Nanofluid Using RSM and ANN combined Approach for Solar thermal Application	Kishor Deshmukh, Dr. Suhas Karmare
4	013	An experimental investigation and mathematical quantification of a Scheffler reflector concentrator system	Pramod Wadate and Hanumant Dharmadhikari
5	027	Investigation of Heat Transfer in-wall having Air cavity	Aniket Hiray, Ashok Pise, Anil Acharya, Swati Jadhav, Vaibhav Talandage5
6	034	Design & development of radius measurement gauge for Inner and Outer Crescent Radius of Low-pressure Pump for reduce inspection time	Arati Bhagat, Nivrutti Sarafdar, Akshay Patil, Virat Ranaware, Aniket Lonare
7	053	A Review on Design Factors for Vertical Axis Wind Turbine	Onkar Dhakne, Shailesh Ambekar



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Day 1: 5th July 2022

Session No: 1B

Session Chair: **Dr. N. S. Nehe**

Session Coordinator: **Prof. S. R. Patil**

Session theme: Advanced control and monitoring in energy technology

Time: **2.00 to 3.30 pm**

Venue: **Seminar Hall, Automobile Department**

Sr. No.	Paper ID	Paper title	Name of the authors
1	002	Amplification of Variations in the Video Sequence Using Region Based Approach for Saving Computational Energy	Rajkumar D. Komati, M. S. Nagmode
2	004	Enhancement of Power System performance using Series FACTS Controller	Kiran B Dhattrak, Jitendra Shinde
3	009	Design and Implementation of Smart Water Level Monitoring system (IoT) with Real-Time Dashboard	A. M. Dhande, K. S. Doke, , R. I. Dalvi, R. P. Borase, J. P. Gawande ⁵ and B. B. Digey ⁶
4	020	Wireless power transfer system for moving electric vehicles using magnetic resonance	A.R. Kesti
5	029	Implementation of controlled robot for fire detection and extinguish based on Arduino	M. D. Balaraf, A. S. Jondhale, M. R. Bongulwar
6	044	Solar Power based ECG monitoring using android mobile phone	Deepali Potdar and Manoj Nagmode
7	059	Pick and place robot using PLC	M. B. Husaini, R. P. Jangid, C. P. Patil and S. D. Tidame
8	060	Application of IOT : Water level monitoring and control	N.R. Bhangе, R.T. Bharambe, S.V. Nirgude, Mr. S. B. Lukare
9	061	Design of wireless digital notice board with weather monitoring parameters	Prathamesh Garge, Shubham Mishra, and Nitesh Gupta



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Day 1: 5th July 2022

Session No: 2A

Session Chair: **Dr. Mohan Khond**

Session Coordinator: Prof. B. A. Patil

Session theme: Energy efficiency, energy market and policy

Time: **4.00 to 5.30 pm**

Venue: **Seminar Hall, Mechanical Department**

Sr. No.	Paper ID	Paper title	Name of the authors
1	008	Investigation the effect of channel geometry on Heat Transfer coefficient in two phase domain of Condenser of Automotive AC	P. V. Kengar and S. V. Karmare
2	011	Influence of backward heat conduction in continuum flows	A. A. Jha, A. Agrawal
3	015	Impact on shelf life of tomatoes: using clay pot refrigerator.	Nishigandha Patel, Virendra Bhojwani, Sachin Pawar
4	021	Thermal management of electric vehicle battery for different c rates using indirect liquid cooling	O. D. Desai, M.M. Madgundi, J. M. Patil, Y. H. Marne, R. R. Patil1, T. S. Patil1, and M. B. Chaudhari
5	031	A review paper on analysis and development of real time simulation of end milling cutter to avoid tool breakdown	Pratik Satav, Shyam Sonawane
6	033	Design and development of a material handling trolley operated by self-weight of the job	R. Kadam, A.V.Bobad, A.S.Nimbalkar, P. Madkar, P. Nikam, and M. Pise
7	047	A Review of Distributed Generation (DG) Technologies and optimization techniques for optimal placement of Distributed Generation	Mohammed Shoeb Mohammed Younus, S. P. Ghanegaonkar
8	049	A review of ancillary services through DER's for grid stability: its prospects, benefits, policies and regulatory reforms in context of growing Indian power sector	Kalyani Kurundkar, Geetanjali Vaidya



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National Conference on Energy and Environment for Sustainable Development 2022

Day 1: 5th July 2022

Session No: 2B

Session Chair: Dr. Vikrant Haribhakt

Session Coordinator: Dr. Nitin Futane

Session theme: Integrated energy systems, modeling and simulations

Time: 4.00 to 5.30 pm

Venue: Seminar Hall, Automobile Department

Sr. No.	Paper ID	Paper title	Name of the authors
1	012	Thermal resistance modeling of closed loop thermosyphon for Water by artificial intelligence approach	Mahasidha R. Birajdar, C. M. Sewatkar
2	016	Performance analysis of waste to best solar water heater	Dharmesh Chavda, Aakash Chaudhari, Bhavesh Deore, Sanjeev Suryawanshi
3	017	Design, development and evaluation of solar tunnel dryer for seasoning and straightening	Yashashri Patil, Kiran Jadhav, Saurabh Mahesh Dusane, S. Suryawanshi
4	019	Experimental and Numerical Simulation of Flows over Wetted Surfaces of Different Cross section Profile Pipes	Pravin Sarode, Vilas Baviskar 2, Dr. Sanjeev Suryawanshi
5	030	Design and development of solar-wind hybrid energy system for home appliances	Amit Adsul, Pratik Bankar, Arati Talwar, Tejswini Bakkad, Nikita Arekar
6	041	Investigation of seismic performance of unsymmetrical steel building with installed viscous fluid dampers and buckling restrained braces	P. S. Shete, S. Sajjanshetty, S. N. Madhekar



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National Conference on Energy and Environment for Sustainable Development 2022

Day 2: 6th July 2022

Session No: 3A

Session Chair: Dr. M. S. Randive

Session Coordinator: Prof. R. P. Thanedar

Session theme: Environmental issues, its protection and regulation

Time: 9.30 to 11.00 am

Venue: Seminar Hall, Mechanical Department

Sr. No	Paper ID	Paper title	Name of the authors
1	24	Review Of Air Quality Index In The Four Metropolitan Cities of Maharashtra During Pre-To-Post Covid-19 Pandemic	Abhishek S.Kshatriya, Chetan S. Sawant, and Sanjay D. Patil
2	26	Evaluation of the semi-arid regions groundwater budgeting: a case study of Solapur region, Maharashtra, India	Yuvraj R. Patil, Amarsinh B. Landage
3	32	Ultra high-performance concrete: composition	Umesh U. Manale, Amarsinh B. Landage
4	37	Design and fabrication of wearable chair	G.V. Thombare, V.V.Gundage, Smita Bandekar, Anuradha Bansode, Asif Shaikh, Akshay Lakade, Tushar Nale,
5	45	Waste To Wealth : Low-Cost Base Isolators From Scrap Tyre Rubber Pads	S. N. Madhekar, M. Kumar, and H. R. Vairagade
6	46	Fabrication And Design Of Automatic Sugar Cane Bud Cutter	D. J. Sangale, G. V. Thombare, S. D. Ranaware, R. A. Korde, A. B. Pathan5, D. D. Karve, P. M. Bhosale



Government College of Engineering and Research Avasari (Kh)

National Conference on Energy and Environment for Sustainable Development 2022

Day 2: 6th July 2022

Session No: 3B

Session Chair: Dr. P. A. Sadgir

Session Coordinator: Dr. M. G. Shaikh

Session theme: Bio Mass, bio-based products, carbon pricing, eco design, eco efficiency and energy control

Time: **9.30 to 11.00 am**

Venue: Seminar Hall, Automobile Department

Sr. No.	Paper ID	Paper title	Name of the authors
1	010	Effective Biological waste management system	Mrs. Arti A. Utikar, Milind Bongulwar , Mrs. Ashwini Kulkarni
2	018	Review on Second Generation Biofuel in India	Mr. S. D. Galande, R. Pangavhane
3	028	Future fuel: ethanol blending	V.A. Utikar
4	048	Simulation of PSO & duty sweep MPPT control techniques for solar power Generation	Ritisha Ankushe, Walmik Gavhane
5	057	Iot based industrial parameters monitoring and control system for safe industrial environment	hubhangi Belkunde, Rohit Mhatre, Manasi Mokal, Hemangi Patil and Prof.D.B Trimukhe
6	054	Study of Ferrocement in Construction: Review paper	Sarvesh Jadhav and Manisha Waghmare



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National Conference on Energy and Environment for Sustainable Development 2022

Day 2: 6th July 2022

Session No: 4A

Session Chair: Dr. S. V. Karmare

Session Coordinator: Prof. Jos Arackal

Session theme: Sustainability, challenges and barriers

Time: 2.00 to 3.30 pm

Venue: Seminar Hall, Mechanical Department

Sr. No.	Paper ID	Paper title	Name of the authors
1	022	Review on Data Acquisition and monitoring of CNC Machine tools using Smart Manufacturing tools	Dhanshri R.Lahore, Dr.S. A. Sonawane
2	023	Catalytic pyrolysis of thermoplastic waste for enhancement of gasoline fraction	M Y Khaladkar ¹ M R Shindikar ² , Y B Sonawane ²
3	025	Design and fabrication of electromagnetic shock absorber: a sustainable alternative to conventional shock absorber	Jaydip Khose, Sumeet Patil, Rishikesh Chinchankar, Shaikh Shoaib, Dheeraj Lengare
4	035	Intelligent reverse braking system	D. J. Sangale, G. V. Thombare, S. R. Nanaware, S. M. Pawar, S.S. Deshmukh, A. D. Bhujbal ⁶
5	039	Design & modification of tackle	D. J. Sangale, G.V. Thombare, S.A. Shaikh, V. A. Doifode, A.S. Deshmukh, S.L. Jagtap and A.A. Kamble
6	040	benchmark problems on bridges	S. N. Madhekar
7	051	Plastic formwork for sustainable	Swapnil Bapu Kharmale, Wasudeo Narayanrao Deulkar and Amarshinh B. Landge
8	056	Dynamic response characteristics of RC buildings with plan irregularities	S. S. Sonawane, Arati Bhapkar, S. S. Yeole, P. R. Pansare, S. N. Madhekar



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National Conference on Energy and Environment for Sustainable Development 2022

Day 2: 6th July 2022

Session No: 4B

Session Chair: Dr. U. S. Kakade

Session Coordinator: Prof. A. J. Bhosale

Session theme: Miscellaneous

Time: 2.00 to 3.30 pm

Venue: Seminar Hall, Automobile Department

Sr. No.	Paper ID	Paper title	Name of the authors
1	006	A case study on Electricity Bill Saving using Solar Plant at Technical Institute (DVVPCOE), Ahmednagar, Maharashtra, India	Kalpana Vidhate and Dr.Pragya Nema
2	042	An Innovative Approach for Distribution System Analysis with DSM in Micro-grid	Shalaka Chaphekar, Anjali Dharme
3	043	Analysis of Schedule Delay & Cost Overrun using EVM & ESM Concept for Infrastructure Flyover Construction Project	G A Gaddam, A B Landage
4	014	Design of helical involute spline assembly for linear to rotary actuator (Irm)	Sumit Kale, Priya Gajjal, and Dipak Bhirud
5	050	Combustion cylinder block surface milling application	Govind Thombare, Sangale Dattatray, Pradip Patil, Swapnil Kakade, Digvijay Jadhav, Prasad Chaudhari and Prathamesh Nale
6	052	Domestic Detection By Using Six Sigma	Govind Thombre, Saurabh Dhembare and Narendra Bankar
7	055	Improve safety, quality, productivity and cost using MES installation and integration of paint shop parameters by industrial automation	Prajakta Pawar and Sadananda Deshpande
8	062	Yogesh Gangasagare, Rutik Khandekar and Nitin Futane	Regenerative Braking System