

## SDG-7 Report

# 7 Affordable and Clean Energy



Ensure Access to Affordable, Reliable, Sustainable and Modern Energy for all



**ICFAI Foundation for Higher Education (IFHE), Hyderabad**

**IFHE Campus**  
**Dontanapally, Shankarapalli Road**  
**Hyderabad - 501203, Telangana, India**

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# ICFAI Foundation for Higher Education

## Report on Affordable and Clean Energy (SDG 7)

Ensure access to affordable, reliable, sustainable, and modern energy for all



### Preamble

Sustainability encompasses a paradigm shift in thought, behaviour, and operations that strives to fulfil the requirements of the current generation while safeguarding the capacity of resources to sustain future generations. The following are some essential aspects:

**Social and Environmental Responsibility:** Preserving natural resources, minimizing environmental damage, and minimizing carbon footprints are the primary objectives of sustainable practices.

**Social equity:** It is the practice of ensuring that all communities and individuals are treated fairly and equitably, and that decision-making processes take social justice and inclusiveness into account.

**Economic viability:** Sustainability aims to establish long-lasting economic systems that strike a balance between profitability and the adverse social and environmental consequences.

**Innovation and adaptability:** The adoption of innovation and adaptability is of the utmost importance in order to discover novel resolutions to preexisting challenges and effectively respond to evolving conditions.

**Holistic approach:** A holistic approach to decision-making entails taking into account the interdependencies among social, environmental, and economic factors.

**Education and awareness:** Advocating for education and raising awareness regarding sustainability contributes to the development of a responsible society and facilitates constructive transformation.

The university believes that through the implementation of sustainable practices across multiple domains, including resource management, policy formulation, business operations, and lifestyle selection, it is possible to strive for a more harmonious and balanced world that benefits both current and future generations.

IFHE believes and implements in the adage energy saved is energy produced.

## **Energy Conservation Policy**

The university has an Energy Conservation Policy (<https://www.ifheindia.org/times-higher-education>) in place that is implemented. It advocates construction of all future buildings/infrastructure development following the energy efficiency standards and guidelines. It also advocates to replace the electrical, mechanical and civil fittings/works with environment friendly products that will reduce carbon footprints.

### **Goals**

The goals of the Energy Conservation Policy (<https://www.ifheindia.org/times-higher-education>) of ICFAI Foundation for Higher Education are -

- to take sustainable measures to reduce greenhouse gas emissions to make the university Net Zero or near Zero carbon neutral in line with the national policy;
- to design and construct all the new buildings and facilities by complying with energy efficiency, solar passive, water conserving and environment friendly building technologies/materials;
- to reduce the fossil fuel-based power generation by utilizing renewable energy sources, solar roof-top photovoltaic/hybrid systems, waste to energy generation, to meet the energy requirements of the university;
- to promote use of water heating systems and cooking systems in university hostels using solar energy;
- to promote and use electric vehicles and bicycles for movement within the university campus; and
- to promote and use electric buses for public transportation for students and staff as and when available.

## **Solar Photovoltaic Power Generation**

Solar Energy is harnessed through solar photovoltaic (PV) panels installed on the rooftops of the university buildings and hostels. The university is planning to instal PV panels in the car parking area. Eventually the university campus will be connected to the main grid operated by Telangana State Government. The electricity generated by the solar panels meets partial energy needs of the hostels. Solar water heating systems are used effectively for the hostels.



**Photovoltaic Panels on Rooftop in an  
Administrative Block**

(<https://www.ifheindia.org/times-higher-education#gallery-9>)



**Photovoltaic Panels Over a Hostel Block**

<https://www.ifheindia.org/times-higher-education#gallery-10>

## **Use of Battery Cars for Local Conveyance**

Three electric cars are provided by the university for local transportation for students, faculty and visitors inside the university campus. This will restrict the movement of petrol/diesel-based

personal vehicles inside the campus. This in effect will reduce carbon footprints on the campus and also benefit the flora in the campus.



### Battery Powered Vehicles for Local Conveyance

(<https://www.ifheindia.org/times-higher-education#gallery-11> & <https://www.ifheindia.org/times-higher-education#gallery-12>)

## Bio-energy Utilization

Solid waste from the campus such as food waste, kitchen waste, agriculture and dung are used to produce biogas as the fuel. The biogas is used for cooking purpose on the campus.

### Energy Efficient Lighting Systems and Fans

The university has installed energy efficient street lights both in open areas and in the buildings. This helps in conserving and saving conventional electricity. The university campus has achieved 90% in replacing the conventional lighting systems with energy efficient LED lighting system. All the old fans are replaced by energy efficient five star rated BLDE fans.



### Biogas Plat on the Campus

(<https://www.ifheindia.org/times-higher-education#gallery-13>)



## Energy Efficient Buildings

The university is on expanding its infrastructure on the campus. All the buildings are compliant with the green building standards.

### LED Lights are used for energy efficiency

(<https://www.ifheindia.org/times-higher-education#gallery-14>)



**Energy Efficient Fans**  
(<https://www.ifheindia.org/times-higher-education#gallery-15>)



**Sensor-based Feeder for Time Control for Lights**  
(<https://www.ifheindia.org/times-higher-education#gallery-16>)

## Operational Guidelines for Energy Usage

- Use five star rated energy consuming appliances for all heavy energy consumption.
- Air Conditioners are to be used to the minimum requirements by maximizing usage of natural light and ventilation.
- All electrical appliances and gadgets are to be upgraded to higher energy efficiency.
- Replace all blinds with eco-friendly bio-degradable blinds.

- Control corridor lights in all the buildings using a central switch will be operationally convenient for switching on/off.
- Use washing machines in hostels and family quarters only when there is a full load.
- Use bicycles and electric cars for movement within the campus.

### **Mentoring Start-ups**

We are incubating Wattron Technologies and Becoba Energy Systems which are working in the energy conservation space. Wattron Technologies works on battery cooling systems. Becoba Energy Systems is working on reduction of the disposal of li-ion batteries by re-using them in low end consumer electronics.



### **Administering Pledge for Energy Conservation**

(<https://www.ifheindia.org/times-higher-education#gallery-17>)



A. Nikhil



G. Shanthan Kumar



M. Sai Vamshi Reddy



B. Sainath

Role/Position:  
CEO

Role/Position:  
COO/CFO

Role/Position:  
CMO

Role/Position:  
CTO

### **Wattron Technologies Team Members**

(<https://www.ifheindia.org/times-higher-education#gallery-18>)



### Becoba Energy Systems Team Members

(<https://www.ifheindia.org/times-higher-education#gallery-19>)



### Enutero Period Healthcare

(<https://www.ifheindia.org/times-higher-education#gallery-20>)

**Enutero Period Healthcare:** It is incubated by the IFHE and is a startup committed to sustainable menstrual products. Enutero addresses the issue of menstrual waste by producing biodegradable sanitary pads, offering an eco-friendly alternative that supports both health and environmental sustainability. With a focus on reducing plastic waste and promoting responsible disposal, Enutero contributes to a cleaner environment and healthier communities by providing safe, biodegradable options for menstrual care.

### Energy Efficiency Retrofit project: IFHE Campus- Saving Projections, Payback & ROI Calculations

Assumptions: Annual Working Days 230 Energy cost /kVAh 8.4 Demand Charges/kVA /month 385

Existing Electrical loads	Qty	Load	Load	Duty Cycle		Load	Energy Units/year	Energy Cost/yr
	Nos.	Watts	kW	Hrs/day	Pf.	kVA	kVAh	KWh
2 x 2 down light Fixtures	1235	67.46	83.31	8	0.954	87.33	1,60,688	1,53,296
2x2 LED down light fixtures	30	67.46	2.02	8	0.954	2.12	3,903	3,724
2x 36watts 4feet tube light fixtures	1874	89	166.79	8	0.506	329.62	6,06,495	3,06,886
2x 36watts mirror optic tube light	694	89	61.77	8	0.56	110.30	2,02,945	1,13,649
2 x 18watts Tube light fixtures	31	38	1.18	8	0.56	2.10	3,871	2,168
2x18w round fittings	1598	38	60.72	8	0.98	61.96	1,14,012	1,11,732
2x18w Down light	36	38	1.37	8	0.98	1.40	2,568	2,517
2x 11w Square light Fixtures	598	24	14.35	8	0.98	14.64	26,947	26,408
2 x 11watts Round light Fixtures	160	24	3.84	8	0.98	3.92	7,210	7,066
2 x 11w light Fixtures	15	24	0.36	8	0.98	0.37	676	662
2x 5watts Night lamp Light	456	10	4.56	8	0.98	4.65	8,562	8,390
1x 36 Watts box type Tube light	3371	44.53	150.11	8	0.51	294.33	5,41,576	2,76,204
1x36watts patti fittings	291	44.53	12.96	8	0.51	25.41	46,751	23,843
1 x 18watts Tube light fixtures	40	19	0.76	8	0.51	1.49	2,742	1,398
								23,032

### IFHE Undertakes Energy Audits and Complies with Energy Conservation

(<https://www.ifheindia.org/times-higher-education#gallery-21>)

### Research and Publications

The faculty members of the university publish valuable research in SCOPUS and Web of Science indexed journals.

A search using key words yielded A search on 'water research' yielded the following 83 published research papers during calendar year 2023 (Refer Annexure).

### Conclusion

The university is committed to and engages its stakeholders in promoting energy conservation in all its actions. The university conducts research on energy efficiency and renewable energy. The university endeavours to impact the society through outreach programs focused on energy conservation.

**Annexure: List of Publications Related to Affordable and Clean Energy (SDG 7)**

Sl. No.	Authors	Title	Year	Source title	Vol	Issue	DOI	Link
1	Nayak J.; Varshney S.; Shekhar C.	Modeling and Applications in Operations Research	2023	Modeling and Applications in Operations Research			10.1201/9781003462422	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85176318253&amp;doi=10.1201%2f9781003462422&amp;partnerID=40&amp;md5=df882f934bee8963594d791d12101ca1">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85176318253&amp;doi=10.1201%2f9781003462422&amp;partnerID=40&amp;md5=df882f934bee8963594d791d12101ca1</a>
2	Mendu U.; Mendu V.S.P.	An Artificial Neural Network Model for Predicting the Nanofluids' Optimal Velocity and Skin Friction in a Convergent Channel	2023	IEEE Access	11		10.1109/ACCESS.2023.3312708	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85171549154&amp;doi=10.1109%2fACCESS.2023.3312708&amp;partnerID=40&amp;md5=91b2badf10ebb916396e21c40ecfc2e3">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85171549154&amp;doi=10.1109%2fACCESS.2023.3312708&amp;partnerID=40&amp;md5=91b2badf10ebb916396e21c40ecfc2e3</a>
3	Kumari A.; Vandana C.; Rao C.M.; Kumar U.A.; Ahmed S.E.	Low-Power Approximate Multiplier Architecture for Error Resilient Applications	2023	ISED 2023 - International Conference on Intelligent Systems and Embedded Design			10.1109/ISED59382.2023.10444585	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85187199297&amp;doi=10.1109%2fISED59382.2023.10444585&amp;partnerID=40&amp;md5=40096be42d9c213c437bfa79e7fbea8">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85187199297&amp;doi=10.1109%2fISED59382.2023.10444585&amp;partnerID=40&amp;md5=40096be42d9c213c437bfa79e7fbea8</a>
4	Sethy S.K.; Majhi A.; Brahma G.S.; Swain T.	Thermal analysis of nanocrystallite phosphate containing composite paint enables for energy storage materials	2023	Inorganic and Nano-Metal Chemistry	53	6	10.1080/24701556.2023.2165689	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85147010638&amp;doi=10.1080%2f24701556.2023.2165689&amp;partnerID=40&amp;md5=ac3b5f873f1898ef7343ecbcbeaefe4">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85147010638&amp;doi=10.1080%2f24701556.2023.2165689&amp;partnerID=40&amp;md5=ac3b5f873f1898ef7343ecbcbeaefe4</a>

Sl. No.	Authors	Title	Year	Source title	Vol	Issue	DOI	Link
5	Bhattacharjee D.; Ramesh K.; Jayaram E.S.; Mathad M.S.; Puhan D.	An integrated machine learning and DEMATEL approach for feature preference and purchase intention modelling	2023	Decision Analytics Journal	6		10.1016/j.dajour.2023.100171	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85146844654&amp;doi=10.1016%2fj.dajour.2023.100171&amp;partnerID=40&amp;md5=7df36be64b4dadde205ce18fa191f577">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85146844654&amp;doi=10.1016%2fj.dajour.2023.100171&amp;partnerID=40&amp;md5=7df36be64b4dadde205ce18fa191f577</a>
6	Sutar G.; Dhalmahapatra K.; Chakraborty S.	Impact of India's Demonetization Episode on its Equity Markets	2023	Asia-Pacific Financial Markets	30	4	10.1007/s10690-022-09392-6	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85140483925&amp;doi=10.1007%2fs10690-022-09392-6&amp;partnerID=40&amp;md5=6ed4547066aff87b3da18a1adf6c45b">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85140483925&amp;doi=10.1007%2fs10690-022-09392-6&amp;partnerID=40&amp;md5=6ed4547066aff87b3da18a1adf6c45b</a>
7	Rathore P.; Saha E.; Chakraborty S.; Tiwari A.K.	Assessing impact of consumer perceived CSR on consumer attitude and purchase behaviour in retail segment: a stakeholder theory perspective	2023	Society and Business Review	18	2	10.1108/SBR-10-2021-0207	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85136020276&amp;doi=10.1108%2fSBR-10-2021-0207&amp;partnerID=40&amp;md5=47960a534abb9d91bb3c0b3b0ca35c1">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85136020276&amp;doi=10.1108%2fSBR-10-2021-0207&amp;partnerID=40&amp;md5=47960a534abb9d91bb3c0b3b0ca35c1</a>
8	Manchala S.; Gandamalla A.; Rudrarapu A.	Biodegradable Nanocelluloses for Removal of Hazardous Organic Pollutants from Wastewater	2023	Handbook of Biodegradable Materials			10.1007/978-3-031-09710-2_29	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85161184490&amp;doi=10.1007%2f978-3-031-09710-2_29&amp;partnerID=40&amp;md5=2d0e95a63a1cdc3c03d64dfe19874aa7">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85161184490&amp;doi=10.1007%2f978-3-031-09710-2_29&amp;partnerID=40&amp;md5=2d0e95a63a1cdc3c03d64dfe19874aa7</a>

Sl. No.	Authors	Title	Year	Source title	Vol	Issue	DOI	Link
9	Rao K.S.; Potluri S.; Venkateswarlu S.; Bandari M.	Classification of Fruit Essential Oils Using Machine Learning Practices	2023	Cognitive Science and Technology	Part F1466		10.1007/978-981-99-2742-5_17	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85172776287&amp;doi=10.1007%2f978-981-99-2742-5_17&amp;partnerID=40&amp;md5=220222ad05955abf9a7871802e00258a">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85172776287&amp;doi=10.1007%2f978-981-99-2742-5_17&amp;partnerID=40&amp;md5=220222ad05955abf9a7871802e00258a</a>
10	Islam S.; Rani P.J.; Sreeram A.; Jweeg M.J.; Kumarasamy M.; Singh D.P.	Block chain Based Temperature and Interactive Control Strategy Implementations for Industry Applications	2023	2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2023			10.1109/I CACITE57410.2023.10182633	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85178289069&amp;doi=10.1109%2fICACITE57410.2023.10182633&amp;partnerID=40&amp;md5=b83c50029d7eee675aea2a5b9583a401">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85178289069&amp;doi=10.1109%2fICACITE57410.2023.10182633&amp;partnerID=40&amp;md5=b83c50029d7eee675aea2a5b9583a401</a>
11	Hanumanthakari S.; Gift M.D.M.; Kanimozhi K.V.; Bhavani M.D.; Bamane K.D.; Boopathi S.	Biomining method to extract metal components using computer-printed circuit board e-waste	2023	Handbook of Research on Safe Disposal Methods of Municipal Solid Wastes for a Sustainable Environment			10.4018/978-1-6684-8117-2.ch010	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85167710373&amp;doi=10.4018%2f978-1-6684-8117-2.ch010&amp;partnerID=40&amp;md5=07c095ce21774ac6e5b0a024f112c02f">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85167710373&amp;doi=10.4018%2f978-1-6684-8117-2.ch010&amp;partnerID=40&amp;md5=07c095ce21774ac6e5b0a024f112c02f</a>
12	Pramodkumar A.; Kumar P.R.; Agarwal N.	Design and Implementation of Partially Static High Frequency DFF for Low Power Applications	2023	2023 IEEE 3rd International Conference on Applied Electromagnetics, Signal Processing, and Communication, AESPC 2023			10.1109/AESPC59761.2023.10390340	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85184856622&amp;doi=10.1109%2fAESPC59761.2023.10390340&amp;partnerID=40&amp;md5=d934d21e9a9a73f78d2b48513d42cfae">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85184856622&amp;doi=10.1109%2fAESPC59761.2023.10390340&amp;partnerID=40&amp;md5=d934d21e9a9a73f78d2b48513d42cfae</a>

Sl. No.	Authors	Title	Year	Source title	Vol	Issue	DOI	Link
13	James A.T.; Kumar G.; Khan A.Q.; Asjad M.	Maintenance 4.0: implementation challenges and its analysis	2023	International Journal of Quality and Reliability Management	40	7	10.1108/IJQRM-04-2021-0097	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85143968204&amp;doi=10.1108%2fIJQRM-04-2021-0097&amp;partnerID=40&amp;md5=4458d908fa0161740d6cef7730cc0464">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85143968204&amp;doi=10.1108%2fIJQRM-04-2021-0097&amp;partnerID=40&amp;md5=4458d908fa0161740d6cef7730cc0464</a>
14	Shreecharan T.; Raju T.S.	Time-dependent non-Abelian waves and their stochastic regimes for gauge fields coupled to external sources	2023	Physical Review D	107	5	10.1103/PhysRevD.107.056011	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85152046265&amp;doi=10.1103%2fPhysRevD.107.056011&amp;partnerID=40&amp;md5=9335b3a719a228335e8edabbe72b149">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85152046265&amp;doi=10.1103%2fPhysRevD.107.056011&amp;partnerID=40&amp;md5=9335b3a719a228335e8edabbe72b149</a>
15	Rudrarapu A.; Brahma G.S.; Swain T.	Nickel and sodium phosphate composite with wall putty substantive as energy saving decorating material	2023	Inorganic and Nano-Metal Chemistry	53	4	10.1080/24701556.2022.2072341	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85129346230&amp;doi=10.1080%2f24701556.2022.2072341&amp;partnerID=40&amp;md5=fa917429f09a4b5c059584a11a9ba7f7">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85129346230&amp;doi=10.1080%2f24701556.2022.2072341&amp;partnerID=40&amp;md5=fa917429f09a4b5c059584a11a9ba7f7</a>
16	Bashir M.; Alfalih A.; Pradhan S.	Managerial ties, business model innovation & SME performance: Moderating role of environmental turbulence	2023	Journal of Innovation and Knowledge	8	1	10.1016/j.jik.2023.100329	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85147293673&amp;doi=10.1016%2fj.jik.2023.100329&amp;partnerID=40&amp;md5=2ef707d27986c51aa0eeef38fb50c9a8">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85147293673&amp;doi=10.1016%2fj.jik.2023.100329&amp;partnerID=40&amp;md5=2ef707d27986c51aa0eeef38fb50c9a8</a>

Sl. No.	Authors	Title	Year	Source title	Vol	Issue	DOI	Link
17	Swain S.; Patra S.K.; Roul M.K.	Advances in numerical analysis of ranque-hilsch vortex tube: A review	2023	AIP Conference Proceedings	2863	1	10.1063/5.0155333	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85176964547&amp;doi=10.1063%2f5.0155333&amp;partnerID=40&amp;md5=075efd539f2ed9f55c5259994f8cccf3">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85176964547&amp;doi=10.1063%2f5.0155333&amp;partnerID=40&amp;md5=075efd539f2ed9f55c5259994f8cccf3</a>
18	Praveena N.; Juneja K.; Rashid M.; Almagrabi A.O.; Sekaran K.; Ramalingam R.; Usman M.	Hybrid gated recurrent unit and convolutional neural network-based deep learning mechanism for efficient shilling attack detection in social networks	2023	Computers and Electrical Engineering	108		10.1016/j.compeleceng.2023.108673	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85151235313&amp;doi=10.1016%2fj.compeleceng.2023.108673&amp;partnerID=40&amp;md5=01fe98add0d460e0c78e30e9ca5e7d8a">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85151235313&amp;doi=10.1016%2fj.compeleceng.2023.108673&amp;partnerID=40&amp;md5=01fe98add0d460e0c78e30e9ca5e7d8a</a>
19	Varaprasada Rao K.; Panda S.K.	A Design Model of Copyright Protection System Based on Distributed Ledger Technology	2023	Lecture Notes in Networks and Systems	459		10.1007/978-981-19-1976-3_17	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85140729061&amp;doi=10.1007%2f978-981-19-1976-3_17&amp;partnerID=40&amp;md5=9233388bcb1021d668f402a5d15ffd8f">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85140729061&amp;doi=10.1007%2f978-981-19-1976-3_17&amp;partnerID=40&amp;md5=9233388bcb1021d668f402a5d15ffd8f</a>
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28	Kumari R.; Kumar S.	Twitter Sentiment Analysis using Machine Learning Techniques: A Case Study of ChatGPT	2023	Proceedings of IEEE InC4 2023 - 2023 IEEE International Conference on Contemporary Computing and Communications			10.1109/lnC45773.0.2023.10262961	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85174706225&amp;doi=10.1109%2fInC45773.2023.10262961&amp;partnerID=40&amp;md5=fb0c26950ae77605c354ecf080a9f81d">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85174706225&amp;doi=10.1109%2fInC45773.2023.10262961&amp;partnerID=40&amp;md5=fb0c26950ae77605c354ecf080a9f81d</a>

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35	Gautam V.; Bhalla S.	Understanding residents' environmental responsible behaviour: a cognition–affection–attitude–behaviour model perspective	2023	Current Issues in Tourism			10.1080/13683500.2023.2273909	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/recording.uri?eid=2-s2.0-85175718702&amp;doi=10.1080%2f13683500.2023.2273909&amp;partnerID=40&amp;md5=9aa2ea2092d20ab54b4f3ec2acc5104c">https://www-scopus-com-ifheiindia.knimbus.com/inward/recording.uri?eid=2-s2.0-85175718702&amp;doi=10.1080%2f13683500.2023.2273909&amp;partnerID=40&amp;md5=9aa2ea2092d20ab54b4f3ec2acc5104c</a>
36	Arun Kumar A.	Knowledge Management in Indian Higher Education – Issues and Challenges	2023	Prabandhan: Indian Journal of Management	16	6	10.17010/pijom/2023/v16i6/172864	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/recording.uri?eid=2-s2.0-85162990471&amp;doi=10.17010%2fpijom%2f2023%2fv16i6%2f172864&amp;partnerID=40&amp;md5=26a83dac1bfcc21a4e62388535ed1b797">https://www-scopus-com-ifheiindia.knimbus.com/inward/recording.uri?eid=2-s2.0-85162990471&amp;doi=10.17010%2fpijom%2f2023%2fv16i6%2f172864&amp;partnerID=40&amp;md5=26a83dac1bfcc21a4e62388535ed1b797</a>

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39	Dewangan A.K.; Moinuddin S.Q.; Cheepu M.; Sajjan S.K.; Kumar A.	Thermal energy storage opportunities, challenges and future scope	2023	Thermal Energy Systems: Design, Computational Techniques, and Applications			10.1201/9781003395768-2	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85161624633&amp;doi=10.1201%2f9781003395768-2&amp;partnerID=40&amp;md5=188e06b9d13609e339f483bae6768de5">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85161624633&amp;doi=10.1201%2f9781003395768-2&amp;partnerID=40&amp;md5=188e06b9d13609e339f483bae6768de5</a>

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41	Tripathi N.N.	Movement of Remunerations in Business Group Firms vis-à-vis Stand-alone Firms during Adverse Conditions	2023	Economic and Political Weekly	58	50		<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85180068866&amp;partnerID=40&amp;md5=8a7d301afacd2ac880291f7595644b92">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85180068866&amp;partnerID=40&amp;md5=8a7d301afacd2ac880291f7595644b92</a>
42	Ramakrishna G.; Asefa Gizaw B.; Paramaiah C.; Joseph R.; Khan S.	Import Tariff Reduction and Fiscal Sustainability: A Macro-Econometric Modelling for Ethiopia	2023	Sustainability (Switzerland)	15	4	10.3390/su15043074	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85149197557&amp;doi=10.3390%2fsu15043074&amp;partnerID=40&amp;md5=c3cb1090ced02a3f156d87d204f60b8d">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85149197557&amp;doi=10.3390%2fsu15043074&amp;partnerID=40&amp;md5=c3cb1090ced02a3f156d87d204f60b8d</a>
43	Samantarai M.; Dutta S.	Katherine Lucey and Solar Sister: empowering women in sub-Saharan Africa to create clean energy businesses	2023	CASE Journal			10.1108/TCJ-04-2023-0083	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85178388526&amp;doi=10.1108%2fTCJ-04-2023-0083&amp;partnerID=40&amp;md5=377e8b68b35aec9e9e09a5431bbadbb">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85178388526&amp;doi=10.1108%2fTCJ-04-2023-0083&amp;partnerID=40&amp;md5=377e8b68b35aec9e9e09a5431bbadbb</a>

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49	Accouche O.; Gangadhari R.K.	Optimizing Decision-Making of A Smart Prosumer Microgrid Using Simulation	2023	Computers, Materials and Continua	76	1	10.32604/cmc.2023.038648	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85164275039&amp;doi=10.32604%2fcmc.2023.038648&amp;partnerID=40&amp;md5=aa0e336e92a942a5d1d2736b3203e3e6">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85164275039&amp;doi=10.32604%2fcmc.2023.038648&amp;partnerID=40&amp;md5=aa0e336e92a942a5d1d2736b3203e3e6</a>
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68	Gantayat P.K.; Tiwari R.G.	Spider Monkey Algorithm for Enhancing Security in Delay Tolerant Network	2023	International Journal of Computing and Digital Systems	14	1	10.12785 /ijcds/14 0166	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/rec ord.uri?eid=2-s2.0-85173965914&amp;doi=10.12785%2fij cds%2f140166&amp;partnerID=40&amp;md5=cd2e590fed8915aeb63acc046af f3b09">https://www-scopus-com-ifheiindia.knimbus.com/inward/rec ord.uri?eid=2-s2.0-85173965914&amp;doi=10.12785%2fij cds%2f140166&amp;partnerID=40&amp;md5=cd2e590fed8915aeb63acc046af f3b09</a>
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70	James A.T.; Asjad M.; Kumar G.; Chandra Shukla V.; Arya V.	Analyzing barriers for implementing new vehicle scrap policy in India	2023	Transportation Research Part D: Transport and Environment	114		10.1016/j.trd.2022.103568	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85144598091&amp;doi=10.1016%2fj.trd.2022.103568&amp;partnerID=40&amp;md5=4aec817e064992345d816b1f4cdf35ba">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85144598091&amp;doi=10.1016%2fj.trd.2022.103568&amp;partnerID=40&amp;md5=4aec817e064992345d816b1f4cdf35ba</a>
71	Paital R.R.; Dutta S.	Estimation of Short-Run and Long-Run Elasticities of Automobile Demand in India: An Empirical Analysis for the Period-1987-2020	2023	Applied Econometrics and International Development	23	2		<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85176556727&amp;partnerID=40&amp;md5=7b412fa85b0949cf3aad37afe7012220">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85176556727&amp;partnerID=40&amp;md5=7b412fa85b0949cf3aad37afe7012220</a>
72	Shilpa B.; Kumar P.R.; Jha R.K.	LoRa DL: a deep learning model for enhancing the data transmission over LoRa using autoencoder	2023	Journal of Supercomputing	79	15	10.1007/s11227-023-05355-4	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85158136251&amp;doi=10.1007%2fs11227-023-05355-4&amp;partnerID=40&amp;md5=b281aeb76f9015285016bd9d041ae9ad">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85158136251&amp;doi=10.1007%2fs11227-023-05355-4&amp;partnerID=40&amp;md5=b281aeb76f9015285016bd9d041ae9ad</a>
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74	Samala S.; Brahma G.S.; Swain T.	Synthesis and characterization of phosphate compounds of cobalt and their composites with building coating materials and solar paint: study of energy storage and energy dissipating behavior	2023	Inorganic and Nano-Metal Chemistry	53	2	10.1080/24701556.2021.2007130	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85120670169&amp;doi=10.1080%2f24701556.2021.2007130&amp;partnerID=40&amp;md5=039011b016cbd57aee57d3d8f7a1c00c">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85120670169&amp;doi=10.1080%2f24701556.2021.2007130&amp;partnerID=40&amp;md5=039011b016cbd57aee57d3d8f7a1c00c</a>
75	Kumar Sethy S.; Majhi A.; Sankhar Brahma G.; Swain T.	Cobalt phosphate-based composite with wall care putty as building envelope material for thermal energy storage	2023	Materials Science and Engineering: B	290		10.1016/j.mseb.2023.116300	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85146948309&amp;doi=10.1016%2fj.mseb.2023.116300&amp;partnerID=40&amp;md5=b60f4a695fb1d250feba34f782af7316">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85146948309&amp;doi=10.1016%2fj.mseb.2023.116300&amp;partnerID=40&amp;md5=b60f4a695fb1d250feba34f782af7316</a>
76	Thokala S.R.	Controllable Approximate and Asymptotic Similaritons in Asymmetric Dual-Core Waveguide	2023	Progress in Optical Science and Photonics	22		10.1007/978-981-19-7118-1_5	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85161398380&amp;doi=10.1007%2f978-981-19-7118-1_5&amp;partnerID=40&amp;md5=49653ccb8016704c502504133a6c1f12">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85161398380&amp;doi=10.1007%2f978-981-19-7118-1_5&amp;partnerID=40&amp;md5=49653ccb8016704c502504133a6c1f12</a>
77	Prabhu L.; Saravanan R.; Anderson A.; Senthilkumar A.; Aneesh V.N.; Malladi A.;	Synthesis, Thermal Adsorption, and Energy Storage Calibration of Polysulfone Nanocomposite Developed with GNP/CNT Nanofillers	2023	Adsorption Science and Technology	2023		10.1155/2023/7376542	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85147535173&amp;doi=10.1155%2f2023%2f7376542&amp;partnerID=40&amp;md5=810e1d266ae4f9e10ce64735ec505778">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85147535173&amp;doi=10.1155%2f2023%2f7376542&amp;partnerID=40&amp;md5=810e1d266ae4f9e10ce64735ec505778</a>

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78	Rizvi T., Dubey S.P., Tripathi N., Srivastava G., Makhija S.P., Mohiddin M.K.	FSPV-Grid System for an Industrial Subsection with PV Price Sensitivity Analysis	2023	Sustainability (Switzerland)	15	3	10.3390/su15032495	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85147889523&amp;doi=10.3390%2fsu15032495&amp;partnerID=40&amp;md5=196b1a1a6b15def4288e60896ecbf37c">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85147889523&amp;doi=10.3390%2fsu15032495&amp;partnerID=40&amp;md5=196b1a1a6b15def4288e60896ecbf37c</a>
79	Dadhich M., Rathore S., Gyamfi B.A., Ajibade S.-S.M., Agozie D.Q.	Quantifying the Dynamic Factors Influencing New-Age Users' Adoption of 5G Using TAM and UTAUT Models in Emerging Country: A Multistage PLS-SEM Approach	2023	Education Research International	2023		10.1155/2023/5452563	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85178433914&amp;doi=10.1155%2f2023%2f5452563&amp;partnerID=40&amp;md5=2833aa8987930c3bb054ecb2008087a8">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85178433914&amp;doi=10.1155%2f2023%2f5452563&amp;partnerID=40&amp;md5=2833aa8987930c3bb054ecb2008087a8</a>
80	Rizvi T., Dubey S.P., Tripathi N., Makhija S.P.	FSPV- grid integrated system for efficient electrification of industrial subsections with grid price sensitivity analysis	2023	2023 3rd International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies, ICAECT 2023			10.1109/I-CAECT57570.2023.10117794	<a href="https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85160394654&amp;doi=10.1109%2fICAECT57570.2023.10117794&amp;partnerID=40&amp;md5=c0ae41dd4401158f19c9b49560018503">https://www-scopus-com-ifheiindia.knimbus.com/inward/record.uri?eid=2-s2.0-85160394654&amp;doi=10.1109%2fICAECT57570.2023.10117794&amp;partnerID=40&amp;md5=c0ae41dd4401158f19c9b49560018503</a>

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81	Samala, S; Brahma, GS; Swain, T	Synthesis and characterization of phosphate compounds of cobalt and their composites with building coating materials and solar paint: study of energy storage and energy dissipating behavior	2023	Inorganic And Nano-Metal Chemistry	53	2	10.1080/24701556.2021.2007130	<a href="http://dx.doi.org/10.1080/24701556.2021.2007130">http://dx.doi.org/10.1080/24701556.2021.2007130</a>
82	Shilpa, B; Gupta, HP; Jha, RK	Edge Processing: A LoRa-Based LCDT System for Smart Building With Energy and Delay Constraints	2023	IEEE Systems Man and Cybernetics Magazine	9	3	10.1109/MSMC.2022.3204848	<a href="http://dx.doi.org/10.1109/MSMC.2022.3204848">http://dx.doi.org/10.1109/MSMC.2022.3204848</a>
83	Gangadhari, RK; Karadayi-Usta, S; Lim, WM	Breaking barriers toward a net-zero economy	2023	Natural Resources Forum			10.1111/1477-8947.12378	0