



# Dr. Mahesh Wagh

## Curriculum Vitae

### Career Objective

- Seeking a challenging and rewarding opportunity in the organization which is in line with my academic background and which effectively utilizes my analytical and technical skills in the field of Energy Technology.

### Education

- 2014-2022 **Doctor of Philosophy (2022)**, Shivaji University, Kolhapur.
- 2008-2011 **M. Tech. (Energy Technology)**, *Department of Technology*, Shivaji University, Kolhapur, *First Class with Distinction*, Percentage= 74.05 %.
- 2000-2001 **Diploma in Business Management**, Welingkar Institute of Management, Mumbai, *First Class with 'A' grade*
- 1996-2000 **B. E. (Mechanical)**, *Dr. J.J. Magdum College of Engineering, Jaysingpur*, Shivaji University, Kolhapur, *First Class with Distinction*, Percentage= 70.13 %.

### Knowledge and Skills

MS office, PVsyst, PVsol, HelioScope, IRENA FlexTool

### Area of Interest

- Renewable Energy Technology
- Energy Management and Audit
- Green Building

### Work Experience: 22 Years

- August 2012 – **Assistant Professor**, *Department of Technology, Shivaji University, Kolhapur, Maharashtra*, 10 years.  
till date
- July 2009 – **Assistant Professor**, *Bharati Vidyapeeth's College of Engineering, Kolhapur, Maharashtra*, 3 years.  
May 2012
- June 2008 – **Lecturer**, *New Polytechnic, Kolhapur, Maharashtra*, 1 Years.  
May 2009

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June 2002 - April 2008 Plant Head, *Futech Engineers, Kolhapur, Maharashtra*, 6 Years.

June 2001 - May 2002 Lecturer, *K.B.P. College of Engineering, Satara, Maharashtra*, 1 Year.

June 2000 - May 2001 Quality In charge, *Maharashtra Udyog, Kolhapur, Maharashtra*, 1 Year.

### Seminar/Workshops Attended

- One day workshop on curricular development of B. E. Mechanical revised structure on 8<sup>th</sup> Jan 2010, organised by Dr. J. J. Magdum College of Engineering, Jaysingpur and SUK
- One day national seminar on Emerging trends in renewable and non-renewable energy technologies ENERGYTECH-2010 organized by Shivaji University, Kolhapur-2010.
- One day workshop on “ Capacity Building of Industry Association and MSME units for Kolhapur Foundry Cluster” arranged by Bureau of Energy Efficiency (BEE) on 7<sup>th</sup> August and 20<sup>th</sup> October 2012.
- Two week ISTE workshop on “Solar Photovoltaics, Fundamentals, Technologies and applications” conducted by IIT Bombay at Shivaji University, on 12 to 22 December 2011.
- Two days ISTE workshop on “Writing Effective Conference Paper” conducted by IIT Bombay at Shivaji University, on 18<sup>th</sup> and 19<sup>th</sup> February 2012.
- Two week ISTE workshop on “Engineering Thermodynamics” conducted by IIT Bombay at Shivaji University, on 11 to 21 December 2012.
- One day workshop on “Effectiveness in Teaching for Organizational Excellence” Arranged by Department of Technology, Shivaji University, Kolhapur, on 3<sup>rd</sup> January 2013.
- Two days ISTE workshop on “Research Methods in Education Technology” conducted by IIT Bombay at Shivaji University, on 2<sup>nd</sup> and 9<sup>th</sup> February 2013.

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## Extracurricular Activities

- Working as a Third Party Inspection contractor for “Thermax Ltd. Enviro Division Pune.” For the inspection of Blowers and fans, Valves Etc.
- Worked as a project assistant in Shivaji university for the project of Study and Evaluation of Energy Management Techniques and Recommendations of New Energy Technologies to achieve Self-sufficiency, vis-à-vis, Energy Conservation & Audits at Kaneri Matha -Kolhapur, India
- Worked as judge for the national level paper presentation contest for diploma level at P.V.P.I.T. Budhgaon Sangli.
- Worked as a subject expert of “Alternate energy sources and management” for preparing Teacher Guide program and sample question paper setting arranged by MSBTE.
- Worked as an assistant for preparation of feasibility report of “Energy Park” at Shivaji University, Kolhapur.
- Worked as an assistant for preparation of feasibility report of “Installation and commissioning of 10 kW wind- solar hybrid system” at Shivaji University, Kolhapur.
- Working as an assistant for preparation of feasibility report of “Installation and commissioning of 250 kW wind- solar hybrid system” at Shivaji University, Kolhapur.
- Worked as an assistant for preparation of “Detailed project report on 52 kW stand-alone solar PV plant for the street lights at Malkapur Nagar Panchayat, Karad” through Industry - Institution interaction cell at Shivaji University, Kolhapur.
- Carried out 6 Energy audits in foundries of Kolhapur foundry cluster in association with BEE, under World Bank GEF program to achieve energy efficiency and energy conservation in foundry industries in November 2012.
- Carried out 15 Preliminary Energy Audits in Textile process industry of Ichalkaranji textile cluster in association with PCRA, Govt. of India, under FODS program to achieve energy efficiency and energy conservation in process industries in May and June 2013.
- Working as an external motivational faculty for Petroleum Conservation Research Association (PCRA) Ministry of Petroleum, Govt. of India for last three years.

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## Memberships

- Life member Indian Society for Technical education (ISTE)
- Member, Tata Power Energy Club
- Member, International Society for Environmental Information Sciences, Canada.
- Member, International Society of Environmental and Rural Developments, Japan.
- Member, International Association of Hydrological Sciences, UK.

## Publications

S. No.	Name of Author/s	Title of the Paper	Name of Journal	Year	Volume & issue	Page Nos.	Impact Factor	ISSN No.
1.	M.M. Wagh, N.N. Shinde	Design, Development, Manufacturing and Testing of aerofoil blades for small wind mill	International Journal of Renewable Energy Research (IJRER) ( Scopus Indexed)	August 2012	Vol.2, Issue 4	640-644	1.235	1309-0127
2.	Prasad A. Bhosale, M. M. Wagh & N. N. Shinde	Study and Measurements of Waste Heat Recovery of Slag in Melting Furnaces in SME's Foundry Industry	An International peer reviewed Scholarly Research Journal for Interdisciplinary Studies (SRJIS)	2013	March/ April - 2013, Vol-1 Issue-5	1130-1140	4.194	2278-8808
3.	S.S.Mali, M.M.Wagh and N.N.Shinde	Review of Design of Single Effect Solar Powered Vapour Absorption Air Conditioning System	International Journal of Advance Research in Science and Engineering (IJARSE)	2013	Vol.No. 2, Issue No7,	44-52	1.142	2319-8354(E)
4.	Manjeet Shende, M.M.Wagh, N.N.Shinde, Er.R.Balani	Analysis of Energy Conservation Studies in Small Textile Industry Boilers And Feasibility of Replacement For Wood Fuel by Producer Gas	International Journal of Advanced Technology in Engineering and Science	2014	Volume No.02, Issue No. 06	167-172	1.012	2348 – 7550
5.	Rohit Shintre, Dr. L. D. Jadhav, M. M. Wagh, N. N. Shinde	Experimental Analysis of Gasifier using Municipal Solid Wastes	International Journal of Engineering Science and Innovative Technology (IJESIT)	2014	Volume 3, Issue 6	510-513	1.913	2319-5967
6.	Rohit R. Atwadkar, Dr. L. D. Jadhav, M. M. Wagh, N. N. Shinde	A Multi Criteria Ranking of Different Technologies for the Waste to Energy of Municipal Solid Waste in the City of	International Journal of Emerging Technology and Advanced Engineering	2014	Volume 4, Issue 7	937-942	2.324	2250-2459

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		Kolhapur						
7.	Shivraj Pawar, N. N. Shinde, M. M. Wagh	Analysis of Effect of Physical Parameters on Energy Balance for Energy Conservation for Vehicle in Motion	International Journal of Emerging Technology and Advanced Engineering	2014	Volume 4, Issue 8	268-272	2.324	2250-2459
8.	Manjeet B Shende, N. N. Shinde, S. B. Desai, M.M. Wagh	Performance of Thermal Power Plant on System Based	International Research Journal of Engineering and Technology (IRJET)	2015	Volume: 02 Issue: 04	1723-1729	3.127	2395 -0056
9.	Vishal Padre, Mahesh Wagh, Nilkanth Shinde	Review of Optimization of Pipeline for CASS for Best Performance with Heat Recovery in Compressors	International Journal of Scientific Engineering and Applied Science (IJSEAS)	2015	Volume-1, Issue-2	13-18	0.217	2395-3470
10.	Anil Jadhav, M. M. Wagh, N.N.shinde	Experimental Analysis and Performance Evaluation of 1kW, Li/Br Vapour Absorption Solar Air Conditioning System	International Research Journal of Engineering and Technology (IRJET)	2015	Volume: 02 Issue: 05	587-589	3.127	2395 -0056
11.	Dhanaji Bhosale, Mahesh Wagh, Nilkanth Shinde	Review on Front Contact Metallization Paste Using Silver Nano Particles For Performance Improvement in Polycrystalline Silicon Solar Cell	International Journal of Scientific Engineering and Applied Science (IJSEAS)	2015	Volume-1, Issue-2	58-62	0.217	2395-3470
12.	Kunal K. Jagtap, Tushar P. Harer, Pravin J. Awatade, M.M. Wagh, N.N. Shinde	Design, Development And Testing of A Distribution Transformer Overload Protection Using Microcontroller	International Research Journal of Engineering and Technology (IRJET)	2015	Volume: 02 Issue: 02	953-957	3.127	2395 -0056
13.	Prathmesh Mayekar, Mahesh Wagh,	Review on Power Quality Enhancement in weak Power Grids by Integration of	International Research Journal of Engineering and Technology (IRJET)	2015	Volume: 02 Issue: 01	299-306	3.127	2395 -0056

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	Nilkanth Shinde	Renewable Energy Technologies						
14.	Pratik P. Ushekwar, S. B. Desai, M.M. Wagh, N. N. Shinde	Performance Analysis of Gas Burner Using Producer Gas For Application of Small Boiler of 1 TPH Capacity Using ANSYS Software	International Research Journal of Engineering and Technology (IRJET)	2015	Volume: 02 Issue: 04	1621-1624	3.127	2395 -0056
15.	Ganesh Patil, N.N.Shinde, 'Dr.C.H.Bhosale, M.M.Wagh	Review of Phase Change Materials Useful For Thermal Storage System	Global Journal of Advanced Engineering Technologies and Sciences	2015	Volume: 02 Issue: 02	7-11	2.365	2349-0292
16.	Mr. A. B. Katkar, Mr. S. B. Desai, M. M. Wagh, Ms. S. D. Tamboli	Modeling and Optimization of Grid Interconnected Co-Generation for Fulfillment of Power Demand at Economic Cost through Transmission Network	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2015	Volume 3 Issue XII	230-236	1.214	2321-9653
17.	Prabhukhot Prachi R., Wagh Mahesh M. , Gangal Aneesh C.	A Review on Solid State Hydrogen Storage Material	Advances in Energy and Power Published by Horizon Research Publishing, CA,USA	July 2016	Volume 4, Issue 2	11-22		2331-6330
18.	Karande Sheetal R., Wagh Mahesh M.	Bio-Diesel From Algae "Empowering The World of Energy: A Review"	International Research Journal of Engineering and Technology (IRJET)	Dec-2015	Volume: 02 Issue: 09	1958-1966	4.45	2395 -0056
19.	Santosh N. Dadas, Prof. (Dr.) P.S. Patil, N.N. Shinde, M.M. Wagh	Evaluation of Effect of Dust on Polycrystalline Silicon Solar Cell	International Research Journal of Engineering and Technology (IRJET)	May 2016	Volume: 03 Issue: 05	2781-2785	4.45	2395 -0056
20.	Ankush Shankar Pujari, Prof.(Dr.)C. H. Bhosale, M.M.Wagh, N.N. Shinde	Effect of Temperature on Drying Rate of Various Types of Bricks	International Research Journal of Engineering and Technology (IRJET)	May 2016	Volume: 03 Issue: 05	2793-2795	4.45	2395 -0056

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21.	Sangram S. Methe, Mr. C. H. Bhosale, N.N. Shinde, M.M. Wagh	Experimental Performance of Solar Water Helical Screw Pump for Irrigation and Drinking Water	International Journal of Scientific Engineering and Applied Science (IJSEAS)	November 2015	Volume-1, Issue-8	405-409	3.466	2395-3470
22.	Sagar M Kande, Wagh MM, Ghane SG, Shinde NN, Patil PS	Experimental Analysis of Effect of Vegetation under PV Solar Panel on Performance of Polycrystalline Solar Panel	Journal of Fundamentals of Renewable Energy and Applications (JFRA)	August 2016	Volume 6, Issue 5	1-6	0.31	ISSN: 2090-4541
23.	Jayant Desai, Sudhir Desai & Mahesh Wagh	CAE Analysis of Tlud Gasifier with Gandhian Approach and Open Source Engineering: A Review	Imperial Journal of Interdisciplinary Research (IJIR)	March 2017	Vol-3, Issue-3	836-841	3.75	2454-1362
24.	Shantanu Deshmukh, Mahesh Wagh	A Review on Capacity Utilization Factor and Cost Economics of Net Metering for Solar Photovoltaic Power Plants in Maharashtra and India	Asian Journal of Convergence in Technology	April 2017	Vol-3, Issue-2		2.71	2350-1146
25.	Anita Kokate, Mahesh Wagh	Carbon Capture, Storage and Utilization Technology By Break Through Solar Cell in India	Asian Journal of Convergence in Technology	April 2017	Vol-3, Issue-2		2.71	2350-1146
26.	Mulla Masoomraja Zakir, Patil P.D. Wagh M.M.	A Novel Review on Biodiesel Production From Waste Cooking Oil	International Journal of Research Publications in Engineering and Technology [IJRPET] (UGC approved)	April 2017	Vol-3, Issue-4		5.765	2454-7875
27.	Patil (Desai) Sujay S., Wagh M. M., Shinde N. N.	A Review on Floating Solar Photovoltaic Power Plants	International Journal of Scientific & Engineering Research (IJSER) (UGC approved) (	June 2017	Vol-8, Issue-6	789-794	3.8	2229-5518

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			IC and Thomson Reuters indexed)					
28.	Amar S. Sawant, N.N. Shinde, P.S. Patil, M.M. Wagh	Experimental Evaluation of Concentrated Parabolic Dish Type Solar Desalination System with Coated Absorber Unit	International Advanced Research Journal in Science, Engineering and Technology (UGC approved)	July 2017	Vol-4, Issue-7	285-290	4.821	2393-8021
29.	Amar S. Sawant, N.N. Shinde, M.M. Wagh	Design, Development and Experimental Analysis of Single Slope and Double Slope Solar Still With Different Materials	International Journal of Modern Trends in Engineering and Research (IJMTER)	July 2017	Vol-4, Issue-7	151-159	4.364	2349-9745
30.	Ajay A. Toraskar, Nayan J. Kotmire, Mahesh M. Wagh	A Review on Power Quality Improvement of Off-grid Connected Solar Photovoltaic Power Plant	International Journal of Scientific & Engineering Research (UGC approved) (IC and Thomson Reuters indexed)	July 2017	Vol-8, Issue-7	1076-1079	3.8	2229-5518
31.	R. B. Khebudkar, D. M. Nangare, M. M. Wagh	A Review on Energy Efficient Hybrid Distillation/Pervaporation Process for Separation of Isopropyl Alcohol Azeotrope	International Journal of Engineering and Advanced Technology (IJEAT) (UGC and Copernicus indexed)	August 2017	Vol-6, Issue-6	141-144	5.02	2249 – 8958
32.	Prachi prabhukhot Mahesh Wagh, Aneesh Gangal	Synthesis and Characterization of Mg Nanoparticles for Hydrogen Storage Material Study	Fronteiras: Journal of Social, Technological and Environmental Science (UGC and Scopus and Copernicus indexed)	August 2017	Vol-6, Issue-2	216-220	3.5	2238-8869
33.	G. J. Ghewade, J. S. Bagi, S. B. Desai, M. M. Wagh	A Review on Liquid Fuel Recovery from Waste Plastic Using Pyrolysis Process	International Journal for Research in Applied Science & Engineering Technology (IJRASET) (	September 2017	Vol-5, Issue-9	375-379	1.415	2321-9653

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			UGC approved, Thomson Reuters, Index Copernicus, SJIF					
34.	Dhanashri P. Patil, Nilkanth N. Shinde and Mahesh M. Wagh	Modeling of Energy Consumption in Foundries by Integrating Renewable Energy Sources: Kolhapur Foundry Sector	Advances in Smart Grid and Renewable Energy, Lecture Notes in Electrical Engineering, Proceedings of ETAEERE-2016 Springer Nature Singapore Pte Ltd. (Scopus Indexed)	October 2017	Series 435	249-258		ISBN 978-981-10-4286-7
35.	A. M. Khuntale, M. M. Wagh	Comparison of Net Meter Policy of Maharashtra with Other States in India for Solar PV Power Plant	International Review of Mechanical Engineering (IREME), Special Issue on "ICMESCoE-2017 (Scopus Indexed)	October 2017	Vol- 11 Issue- 10	780-786	0.83	ISSN 1970-8734
36.	A. M. More, M. M. Wagh	Feasibility of Solar Steam Cooking for 500 Students Using Scheffler Dishes at Institute Canteen	International Review of Mechanical Engineering (IREME), Special Issue on "ICMESCoE-2017 (Scopus Indexed)	October 2017	Vol- 11 Issue- 10	737-742	0.83	ISSN 1970-8734
37.	Wagh M. M., V. V. Kulkarni	Modeling and Optimization of Integration of Renewable Energy Resources (RER) for Minimum Energy Cost, Minimum CO2 Emissions and Sustainable Development, in Recent Years: A Review	Materials Today Proceedings, by Elsevier, Proceedings of International Conference on Processing of Materials, Minerals and Energy (July 29th – 30th) 2016, Ongole, Andhra Pradesh, India (Scopus Indexed)	February 2018	Vol- 5	11-21	0.71	ISSN 2214-7853

38.	Ramesh M. Satape, Nilkanth N. Shinde, Mahesh M. Wagh, Ashok Bhalkar	Maximizing Solar Energy Yield In Hybrid Grid-Solar-DG Industrial Application	American Journal of Engineering Research (AJER) (IC indexed)	August 2018	Vol-7 Issue-8	232-236	1.308	2320-0936
39.	Acharya P.S., Wagh M.M., Kulkarni V.V.	Intelligent Algorithmic Multi-Objective Optimization for Renewable Energy System Generation and Integration Problems: A Review	International Journal of Renewable Energy Research (IJRER) (Scopus Indexed)	March 2019	Vol-9 Issue-1	271-280	2.88	1309-0127
40.	M.M.Wagh, V.V. Kulkarni	Thermal energy demand fulfillment of Kolhapur through modeling and optimization of integrated renewable energy systems	Renewable Energy Focus, Elsevier Publication (Scopus Indexed)	June 2019	Vol- 29 Issue - 00	114-122	0.33	1755-0084

## Strengths

- Ability to perform the task in given time.
- Positive attitude towards creative ideas.
- Good Leadership Quality

## Languages

English- Read, Speak, Write

Hindi - Read, Speak, Write

Marathi -Read, Speak, Write

## Leisure and Hobbies

Interests Reading books

## Declaration

**I hereby declare that all the above mentioned information is true to the best of my knowledge and belief.**

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