

*Updated April 6,2024*

## **Professor (Dr) Shyam Singh Chandel (S.S. Chandel), Ph.D**



Professor (Dr) Shyam Singh Chandel, Ph. D, is a former Professor and founder Head of the **Centre for Energy & Environmental Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh India**, He joined Shoolini University, Solan, Himachal Pradesh India as Dean of Engineering & Technology, Shoolini University, Solan in 2019 and currently he is working as Director, Centre of Excellence in Energy Science and Technology (CEEST), Shoolini University which ranked among top 200 global universities as per Times Higher Education ranking. The university achieved **2<sup>nd</sup> ranking worldwide in UN sustainable development goals SDG-7 (Sustainable and Affordable Energy)** and 6<sup>th</sup> worldwide in SDG-6 (Clean Water and sanitation) - Dr. Chandel has more than 45 years of research experience in the field of Energy Research, Innovation, and development.

### ***Worldwide recognition***

He is among the top 2% of scientists Worldwide in the field of Energy as per Stanford University, USA, and Elsevier World Ranking continuously for w.e.f 2020,2021,2022,2023 in the career-long category. He has a wide linkage with International Energy Institutions and Organizations. He has also linkages with the International Solar Alliance, National Institute of Solar Energy, National Institute of Wind Energy (NIWE), Ministry of New and Renewable Energy, Govt of India.

### ***Research & Academic:***

He was the Chief Editor of UN SDG Report on Implementation of on UNSDGs in Higher Education Institutions in India: *Building a Sustainable Future - Realizing United Nations Sustainable Development Goals Through Higher Education Institutions – A National Report* published by AIU -2023 & released by Former Vice President of India ([Link](#)). He is on the Editorial boards of several Energy Journals:

### **Journal of Renewable Energy and Environment - JREE**

**Associate Editor: Renewable Energy and Environmental Sustainability-REES**

**Reviewer** of International Energy Journals: Elsevier, Wiley, Springer, Taylor & Francis and many more in Energy, Environment, Climate Action and Sustainability, Renewable Energy Science, Engineering, and Technology.

**Expertise:**

He has expertise in Energy, Solar, Wind, Bioenergy, Environment and Sustainable Development, UN Sustainable Development Goals (SDGs); Renewable Energy technologies, solar photovoltaics system design and modelling, Building integrated PV solar power generation, solar radiation modeling, PV forecasting, PV degradation, and solar-wind-diesel-biomass-battery-based hybrid systems. AI applications in Energy. His area of research also includes passive solar building technologies; solar, wind, and policy and renewable resource assessment. He is also working on; PV and CPV power generation design and development of PV hybrid energy systems, Energy Storage, and PV power forecasting. Energy, Environment, and Climate Change concerns and Policy issues and UN sustainable Development Goals.

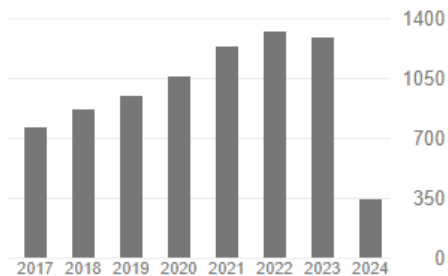
**Academic:**

Ph.D in High Energy Physics with wide experience of teaching research. Guided a number of Master in Science and Technology & PhD students; Designed and formulated B.Tech (Renewable Energy), M. Tech (Energy Technology) , M Tech (Climate Science & Sustainable Development; PhD (Energy.) courses. Currently working on the design of online and distance learning energy courses

**Research Publications:** More than 120 research publications in International Journals of Repute , books, and scientific reports and Policy documents

**[Google Scholar Link updated April 6,2024](#)**

	All	Since 2019
Citations	9102	6212
h-index	40	34
i10-index	70	62



**Administration:**

He has a vast administrative experience of working with International, National , State Govt. and Govt. of India, Ministry of New & Renewable Energy ,Science & Technology-, and Human Resource Development ,Education ,UGC, Association of Indian Universities(AIU), National Institute of Wind Energy(NIWE), National Institute of Solar Energy, Ministry of New &

Renewable Energy Delhi, Department of Science & Technology, GOI ,HP State Science, Technology & Environment Councils.

**Catalyzed the establishment of scientific & technical research facilities in the state of Himachal Pradesh:**

Energy Research Centre and Meteorological research observatory at-Dr YS Parmar University, Solan in 1986, Solar Cities Shimla & Hamirpur, National Research & Technology Consortium(NRTC), Parwanoo,(1995, Appropriate Technology Research and Development Centre at Sunder Nagar 1995 , Science City, Science Museum & Planetarium at Shimla in 1994 ., Centre of Excellence in Energy and Environmental Engineering at National Institute of Technology, Hamirpur in 2009 and Centre of Energy Science & Technology at Shoolini University in 2019 Formulated and coordinated more than 30 International and externally funded Research &Development projects, Consultancy projects out of which 2 projects were funded under Australian Aid and World Bank on Passive solar building technology

### **Policy Initiatives in the Northwestern Himalayan Region**

- Solar Power Generation under Solar Policy for Himachal Pradesh
- Solar Water Pumping for irrigation & drinking water supplies
- Policy for making Solar Passive Housing Technology mandatory in Himachal Pradesh making HP as the first state in the country to take such a decision in 1994. 2000,2005.
- Policy for the incorporation of Solar Passive building features in building Byelaws in HP was notified by HP Govt. in 2009.
- Policy for the Registration of Geographical Indications (GI) of Himachal Pradesh in 2004: Registered Kangra Tea, Kullu Shawl, Chamba Rumal as GIs as the CO-ordinator of HP Patent Information Centre, HP Science, Technology, & Environment Council, Shimla
- Assessed the Solar PV power generation potential of Himachal Pradesh recently under a consultancy Project for HP Electricity Regulatory Commission (HPERC)by the identifying sites for Megawatt Scale Solar photovoltaic power plants in the 4 districts of Himachal Pradesh which will prove a milestone in the field of Solar power generation in the state.

### **Honors, Awards & Recognitions**

- Word-wide recognition among the Top 2 % of Researchers in Energy as per Stanford University World Ranking of Scientists 2020,2021,2022,2023.
- Nov. 12, 2018, Lifetime Achievement Award in Science Promotion in the State of Himachal Pradesh by State Council for Science & Technology & Environment, Himachal Pradesh.

- April 29, 2016, National Award for Excellence on promoting Concentrated Solar Technologies in Educational Institutions for National Institute of Technology, Hamirpur by Ministry of New & Renewable Energy, Govt. of India
- June 30, 2002, Shri Sohan Raj Dali Chand Shah Lifetime Achievement in the fields of Science, Technology and Environment and Popularization of Science in the Country by Indian Planetary Society, Mumbai, India.

## **Contact & Identifiers:**

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