

Professional Experience

Professor, National Institute of Advanced Studies, Bengaluru (August 2016 – till date)

- Dean, School of Natural Sciences & Engineering, NIAS.
- Member, Program Advisory Committee (Energy), Science & Engineering Research Board
- Member, DSIR (GOI) Technical Advisory Committee for A2K+ Studies Program.
- Currently guiding five PhD students carrying out inter-disciplinary research on:
 - *Consolidation of Laws related to Environmental Protection in Coal Mining*
 - *Power Distribution Sector Reforms – A study of the Hyderabad-Karnataka Region*
 - *Air Quality and Public Health: A case study in Bengaluru*
 - *Sustainable Options for City Transport based on First and Last Mile Connectivity*
 - *Interlinking of rivers for Integrated Water Resources Management*
 - *Socio-economic Impacts of Agrometeorology services in the Kalyana-Karnataka region*

Director, Thiess Group, Kolkata, December 2010 – December 2015

- Ensured Board governance and Implementation of Risk Management practices
- Implemented award-winning Community Development program in a sensitive area
- Played lead role in successful conclusion of International and Domestic Arbitrations

General Manager, Tata Steel, Jamshedpur, India, September 2006 – November 2010

- Conceptualized and Executed expansion projects with an outlay of Rs. 15,000 Million to double capacity of Tata Steel's iron ore mining, processing, and logistics facilities
- Implemented Green projects like Rainwater harvesting and Solar power in mining projects
- Managed a Rs. 4000 Mi Cost Center to meet 100% of iron ore needs of Tata Steel

Chief, Tata Steel, West Bokaro and Jamshedpur, India, May 2001 – August 2006

- Developed Feasibility Study for Tata Steel's proposed 10 Mt coal project in Bangladesh
- Convinced Government of Bangladesh to introduce a policy for opencast coal mining
- Turned around a 600-men unit with a cost base of Rs. 2000 Mi and surpassed CTQ Targets
- Led Tata Power Task Force to enhance generation capacity from 2,000 MW to 12,000 MW

Divisional Manager, Tata Steel, West Bokaro, Jharkhand, February 1997 – April 2001

- Implemented schemes to retain 50% share for West Bokaro coal in Jamshedpur Steel Plant
- Developed & implemented innovative ideas in S.E. Block Project for the first time in India
- Conceptualized & implemented India's first GPS-based Truck Dispatch System

Research Assistant, Penn State University, USA, August 1990 – December 1996

- Research on Health & Safety while assisting in Mine Ventilation & Mineral Investments

Assistant Manager, Western Coalfields Ltd., Nagpur, July 1984 – July 1990

- Implemented innovative ideas to create industry records in underground coal mining

Education

- General Management Program, European Center for Executive Development (CEDEP), INSEAD, Fontainebleau, France ▪ 1999-2000.
- Dual Title PhD in Mining Engineering and Operations Research – Pennsylvania State University, University Park, USA ▪ 1996
- Master of Science in Mining Engineering - Pennsylvania State University, USA ▪ 1993
- Bachelor of Technology in Mining Engineering – Indian School of Mines, Dhanbad ▪ 1984

Executive Leadership Programs

- Strategic Leadership Development – Tata Management Development Centre, Pune ▪ 2008

Thought Leadership

- Member, NITI Aayog Consultative Group to study Decarbonization Strategy for India.

Research Projects

- Tata Steel Ltd (Value: Rs. 25 Lakhs) – completed.
Study of Learning and Development/Talent Management processes at ISRO
- Science & Engineering Research Board, GOI (Value: Rs. 747 Lakhs) – completed.
Interdisciplinary forays into Human-Environment interactions: An integrative research initiative in energy, ecology, and non-linear modeling.
- Department of Science & Technology, GOI (Rs. 151 Lakhs) – completed.
To develop an Integrated Approach to Development and Environment in the Power Sector.
- Nuclear Power Corporation of India Ltd. (Value: Rs. 23.36 Lakhs) – completed.
Study on the Role and Economic Viability of Nuclear power in India.
- Ministry of Earth Sciences, GOI (Value: Rs. 318 Lakhs) – ongoing.
To understand the interaction between components of Earth and Human Systems at various spatial and temporal scales.
- Board of Research in Nuclear Sciences. (Value: Rs.25.76 Lakhs) – ongoing. *Identification of Potential Sites for Nuclear Power Plants for a Sustainable Energy Mix.*
- NITI Aayog. (Value: Rs. 24.99 Lakhs) – ongoing.
Enhancing domestic coking coal availability to reduce the import of the coking coal
- Ministry of Environment, Forest & Climate Change. (Value: Rs. 9.44 Lakhs) – completed.
Information on coal for India's Third National Communication to the UNFCCC

Select Publications

In SCI Journals

- Rakesh, N.G., Tejal Kanitkar, and **R Srikanth** (2023). Role of Agrometeorological Advisory Services in Enhancing Food Security and Reducing Vulnerability to Climate Change. *Weather, Climate, and Society*. <<https://doi.org/10.1175/WCAS-D-22-0130.1>>.
- Tanmay Ghosh, Tejal Kanitkar, and **R Srikanth** (2023). Affordable and Sustainable Transportation: Key drivers and Policy choices for a megacity in India. *Case Studies on Transport Policy*. Vol.48. Article 101061. <<https://doi.org/10.1016/j.cstp.2023.101061>>
- Soumya Deep Das and **R. Srikanth** (2023). A Balanced Scorecard to enable Electricity Distribution Sector Reforms in India. *The Electricity Journal*. Volume 36 (6). 107302. <<https://doi.org/10.1016/j.tej.2023.107302>>
- Aariz Ahmed and **R Srikanth** (2023). Application of Geospatial techniques and the MCDM method to optimize Interlinking of Rivers in India. *J Indian Soc Remote Sens.* Vol.51. pp. 849-863. <<https://doi.org/10.1007/s12524-023-01672-6>>
- Lavanyaa, V.P., Harshita, K.M., Beig, G., and **R. Srikanth** (2023). Background and baseline levels of PM_{2.5} and PM₁₀ pollution in major cities of peninsular India. *Urban Climate*. Vol.48. Article 101407. <<https://doi.org/10.1016/j.uclim.2023.101407>>
- Tanmay Ghosh, Tejal Kanitkar, and **R Srikanth** (2022). Assessing equity in public transportation in an Indian city. *Case Studies in Transport Policy*. Vol. 10 (4). pp. 2337-2349. <<https://doi.org/10.1016/j.cstp.2022.10.007>>
- Chanchal Chauhan, Aariz Ahmed, and **R Srikanth** (2022). Application of Vegetation Index to Assess the Sustainability of Coal Mines in India. *Asian Journal of Water,*

Environment and Pollution. Vol. 19, No. 5. pp. 11-21.

<https://doi.org/10.3233/AJW220066>

- Lavanyaa V.P, Varshini S, Souvik Sankar Mitra, Kiran M. Hungund, Rudrodip Majumdar, and **R Srikanth** (2022). Geospatial modelling for estimation of PM_{2.5} concentrations in two megacities in peninsular India. *Aerosol Air Qual. Res.* Vol. 22. No. 7. 220110. <https://doi.org/10.4209/aaqr.220110>
- Harsh Kamath, Chanchal Chauhan, and **R Srikanth** (2022). A Study of Air Quality in the Coalfields of NSW, Australia and Telangana, India. *J Indian Soc Remote Sens* 50, 1713-1723. <https://doi.org/10.1007/s12524-022-01557-0>
- Sinha, S.K., **R. Srikanth**, and Sudha Mahalingam (2022). Regulatory framework for India's energy security and sustainability. *Energy Policy*. Vol. 162. Article 112815. <https://doi.org/10.1016/j.enpol.2022.112815>
- Harsh G. Kamath, Rudrodip Majumdar, A. V. Krishnan, **R. Srikanth** (2022). Cost and environmental benefits of coal-concentrated solar power (CSP) hybridization in India. *Energy*. Vol. 240. <https://doi.org/10.1016/j.energy.2021.122805>
- Singh, J., **Srikanth, R.**, and Ramasesha, S.K. (2021). Dispersion of Particulate Matter and Sulphur Oxides from Thermal Power Plant: A case study. *Environ Model Asses.* Vol. 26 763-778. <https://doi.org/10.1007/s10666-021-09790-6>
- Soumya Deep Das and **Srikanth, R.** (2020). Viability of Power Distribution in India – Challenges and Way Forward. *Energy Policy*. Vol 147. <https://doi.org/10.1016/j.enpol.2020.111882>
- **Srikanth, R.** (2018). India's Sustainable Development Goals – Glide Path for India's Power Sector. *Energy Policy*. Vol. 123. pp. 325-336. <https://doi.org/10.1016/j.enpol.2018.08.050>
- **R Srikanth** and Hippu Salk Kristle Nathan (2017). Towards Sustainable Development: Planning Surface Coal Mine Closures in India. *Contemporary Social Science: Journal of the Academy of Social Sciences*. Vol. 13. No. 1. pp. 30-43. <https://www.tandfonline.com/doi/full/10.1080/21582041.2017.1394484>
- Sarvajeet Kumar Sinha, H.S.K. Nathan, and **R Srikanth** (2021). Why India needs a Coal Mines Environment Authority. *Economic & Political Weekly*. Vol. LVI. No. 51. pp. 32-38.
- Tejal Kanitkar, Sudha Mahalingam, and **R Srikanth** (2020). Electricity (Amendment) Bill, 2020: Inviting a Bigger Crisis. *Economic and Political Weekly*. Vol. LV. No. 41. pp. 40-45.
- **Srikanth, R.** (2018). Role of Electric Mobility in a Sustainable, Energy-Secure Future for India. *Current Science*. Vol. 114. No. 4. pp. 732-739. <http://www.currentscience.ac.in/Volumes/114/04/0732.pdf>
- **Srikanth, R.** (2018). India's Steel Industry – *quo vadis?* *Current Science*. Vol. 114. No. 2. pp. 243-243. <http://www.currentscience.ac.in/Volumes/114/02/0243.pdf>
- **Srikanth, R.** (2017). Why India needs a National Electricity Council, *Current Science*. Vol. 113. No. 7. pp. 1233-1241. <http://www.currentscience.ac.in/Volumes/113/07/1233.pdf>

Research Reports

- V. P. Lavanyaa, **R. Srikanth**, S. Varshini, and K. M. Harshitha (2023). Geospatial modelling for estimation of PM_{2.5} concentrations in Major cities of Peninsular India. NIAS Research Report. NIAS/NSE/EECP/U/RR/03/23.
- Sherin S Das, Rudrodip Majumdar, A.V. Krishnan and **R. Srikanth** (2023). Research Report on Urban Water-Energy Nexus. NIAS Research Report. NIAS/NSE/EECP/U/RR/01/2023.

- R. Srikanth (2022). Role of Coal in India's Energy Transition. NIAS Research Report NIAS/NSE/EECP/U/RR/30/2022.
- Sudha Mahalingam, **R. Srikanth**, Soumya Deep Das (2022). Power Distribution Sector Reforms in India - Role of Regulators and The Private Sector. NIAS Workshop Report NIAS/NSE/EECP/U/WR/20/2022.
- Nikhil Thejesh, Shyam Sundar, R., A.V. Krishnan, and **R. Srikanth** (2021). Transition Plan for an Integrated Approach to Development and Environment in the Power Sector. NIAS Research Report NIAS/NSE/EEP/U/RR/14/2021. 48 pp.
- Chanchal Chauhan, Aariz Ahmed, Harsh Kamath, Harini Santhanam, and **R Srikanth**, (2021). Sustainability Pathways to Energy utilization: State of the environment in the Ramagundam and Dorli-Bellampalli coal mines in the State of Telangana. NIAS Workshop Report. NIAS/NSE/EEP/U/RR/07/2021. 66 pp.
- Sarvajeet Kumar Sinha and **R. Srikanth** (2021). Sustainability Pathways to Energy Utilisation: Improving the environmental governance of coal mines in India through a unified authority. NIAS Workshop Report. NIAS/NSE/EEP/U/RR/06/2021. 72 pp.
- **R. Srikanth** (2020). Coal Mining Technology and Practices in India: Challenges and Prospects. in: Future of Coal in India: Smooth Transition or Bumpy Road Ahead? R. Tongia and A. Sehgal (eds.); P. Kamboj (co-editor). Notion Press. <<https://notionpress.com/read/future-of-coal-in-india>>
- **Srikanth, R.**, & Ramani, R. V. (1996). Single-breakage studies to determine the relationships between respirable dust generation and coal seam characteristics. *Applied occupational and environmental hygiene*, 11(7), 662-668.
- **Srikanth, R.**, Suboleski, S. C., Miola, W., & Ramani, R. V. (1995). Contribution of shield movement to airborne dust levels in longwall faces. *Mining Engineering*, 47.

Policy Briefs

- **Srikanth, R.** (2023). Small Modular Reactors to Achieve SDG 7 and Net Zero Emissions. <<https://t20ind.org/wp-content/uploads/2023/07/Small-Modular-Reactors.pdf>>
- Gufran Beig, **R Srikanth**, and Shailesh Nayak (2021). Air Quality, National Standards and Human Health in India. NIAS Policy Brief No. NIAS/NSE/EEC/U/PB/25/2021.
- **R. Srikanth** and A. V. Krishnan (2020). Transition plan for thermal power plants. NIAS Policy Brief No. NIAS/NSE/EEP/U/PB/17/2020.

Conference and Workshop Proceedings

- Sudha Mahalingam, **R Srikanth**, and Soumya Deep Das (2022). Power Distribution Sector Reforms in India: Role of Regulators and the Private Sector, NIAS Workshop Report No. NIAS/NSE/EECP/U/WR/20/2022.
- Shyam Sundar R., Harikrishna, M., A V Krishnan, and **R Srikanth** (2021). Stakeholder consultation workshop to discuss the DST –NIAS Transition Plan for the Power Sector. NIAS Workshop Report. NIAS/NSE/EEP/U/WR/03/2021. 39 pp.
- Aariz Ahmed, Harini Santhanam, and **R Srikanth** (2020). A multidisciplinary framework for Sustainable Water Resources Management -a case study of the Almatti - Pennar ILR Scheme. Proceedings of the XIV World Aqua Congress. pp. 13-26.
- Jayant Singh and **R Srikanth** (2020). The current scenario of the polymetallic nodules program in India. MGMI News Journal. 47(1). pp. 35-38.
- **R Srikanth**, A V Krishnan, and Soumya Deep Das (2020). Transition Path to promote Renewable Energy by DISCOMs. Proceedings of the 19th Renewable Energy Summit.

- Sarvajeet Sinha and **R Srikanth** (2020). Sustainable Coal Mining Bill – Stakeholder consultation workshop. NIAS Workshop Report No. NIAS/NSE/EEP/U/WR/19/2020.
- Tejal Kanitkar Nikhil Thejesh, Upasna Ranjan, **R. Srikanth** (2020). Optimal Electricity Mix for the Southern Region. NIAS Workshop Report. NIAS/NSE/EEP/U/WR/07/2020.
- Krishnan A.V. and **R Srikanth** (2019). Implementation of Clean Coal Technologies to comply with “New Emission Norms” for Thermal Power Plants - Priorities for Way Forward. Presented at the XIXth International Coal Preparation Congress, New Delhi.
- A V Krishnan, Shyam Sundar, Shilpa Srivastava, and **R Srikanth** (2019). Implementation of Clean Coal Technologies to comply with “New Emission Norms” for Thermal Power Plants. NITI Aayog-DST-NIAS Workshop Report No. NIAS/NSE/EEP/U/WR/13/2019.
- Hippu Salk Kristle Nathan, Sarvajeet Kumar Sinha, Shilpa Srivastava, Jahnvi Sharma, and **R Srikanth** (2019). Sustainability of Coal Mining: Challenges and Way Forward. NIAS Workshop Report No. NIAS/NSE/EEP/U/WR/071/2019.
- **Srikanth, R.** (2018). Optimal electricity mix for India: Glide path for India’s Power Sector. Summary of NITI Aayog-DST-NIAS Workshop held at NIAS on November 20, 2018. NIAS Report No. R66-2018.
- O’Brien, M.D., **Srikanth, R.**, Vidale, A.L. and Springbett, G.M. (2010). Planning the Kotre Basantpur-Pachmo Coking Coal Mine. Proceedings of Mine Planning and Equipment Selection. pp 533-546. The Australasian Institute of Mining and Metallurgy.
- Raghu Kumar, C., Chakraborty, D.P., Arun Misra, **Srikanth, R.**, Venugopalan, T. (2010). Development of Suitable Strategy for the Beneficiation of Iron Ore Slimes. TATA Search.
- Shambhu Sharan, **R. Srikanth**, et al. (1997). Dust Contamination of Panel/Face Intake Air. Proceedings of the 6th International Mine Ventilation Congress. pp 354-359. Society for Mining, Metallurgy and Exploration Inc., Littleton, CO, USA.
- **Srikanth, R.** and Ramani, R.V. (1997). Relationships between coal properties and respirable dust generation potential-II. Proceedings of the 6th International Mine Ventilation Congress. pp 367-373. Society for Mining, Metallurgy and Exploration, USA.
- **Srikanth, R.**, Zhao, R., & Ramani, R. V. (1995). Relationships between coal properties and respirable dust generation potential (No. CONF-9506227-). Society for Mining, Metallurgy, and Exploration, Inc., Littleton, CO (United States).

Popular Press

- **R. Srikanth** (2023). Can small modular nuclear reactors help India achieve net-zero? The Hindu. August 10. <<https://www.thehindu.com/sci-tech/science/small-modular-reactors-india-nuclear-power-net-zero/article67175626.ece>>
- **R. Srikanth** (2022). Govt must address deep-rooted ills in coal sector. Deccan Herald. 9th May. <<https://www.deccanherald.com/specials/sunday-spotlight/govt-must-address-deep-rooted-ills-in-coal-power-sectors-1107367.html>>
- A.V. Krishnan and **R. Srikanth** (2021). A clean energy transition plan for India. The Hindu. October 23. <<https://www.thehindu.com/opinion/op-ed/a-clean-energy-transition-plan-for-india/article37131191.ece>>
- **R Srikanth** (2020). Costly solution: Careful on flue gas desulphurisers. Financial Express. July 27. <<https://www.financialexpress.com/opinion/costly-solution-careful-on-flue-gas-desulphurisers/2035605/>>
- Sudha Mahalingam, Tejal Kanitkar, and **R Srikanth** (2020). A jolt to National Energy Security. The Hindu. May 19. <<https://www.thehindu.com/opinion/op-ed/a-jolt-to-national-energy-security/article31617586.ece>>