

Capabilities

- Inter-disciplinary, policy-oriented research on Sustainable Development Goals
- Building a team of young researchers and mentoring them in policy-oriented research
- Developing and teaching a PhD-level course on Energy and Environment Policy
- Holistic knowledge of Metals & Minerals and Power Sectors from end-to-end
- Developing research proposals for external funding, and executing them successfully
- Planning and organizing Leadership Development Programs
- Demonstrated success in Environment Management & Community Development
- Developing world-class coal & iron ore mines, process plants, and logistics facilities
- Managing autonomous cost centers and Board-managed companies
- Hands-on experience in Operations Management, Project Planning & Management from Concept to Commissioning, and Strategic Leadership
- Risk Assessment, Contract Management, Project Execution with DuPont Safety Systems

Research Interests

- Sustainable Development Goals in the areas of energy, environment, infrastructure, and public health
- Leadership and Organizational Development

Professional Experience

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

- Head, Energy & Environment Program & Dean, School of Natural Sciences & Engineering
- Principal Investigator for three GoI-funded research projects and two corporate projects.
- Member, Expert Group for comprehensive study on the future coal scenario of India.
- Member, NITI Aayog Group to prepare a Working paper on Indian Mining Sector @ 2035.
- Member, NITI Aayog Working Group to develop: Strategy for New India @ 75.
- Expert Member, Ministry of Coal Task Force on “Integrated Approach to Mining and Environment in Surface Coal Mines.”
- Member, Program Advisory Committee (Energy), Science & Engineering Research Board
- Member, DSIR (GOI) Technical Advisory Committee for A2K+ Studies Program.
- Currently guiding seven 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 Marine Fishery Advisories in Odisha*
 - *Socio-economic Impacts of Agrometeorology services in Hyderabad-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

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- 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, University Park, 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, Task Force constituted by Ministry of Coal (GOI) on Mine Closure Policy
- Member, NITI Aayog Working Group on Minerals- India @75
- Member, Program Advisory Committee (Energy Security), SERB (GOI)

Research Projects

- Sponsor: Tata Steel Ltd (Value: Rs. 2.5 Million) – completed.
Study of Learning and Development/Talent Management processes at ISRO
- Sponsor: Science & Engineering Research Board (Value: Rs. 7.47 Million) – completed.
Interdisciplinary forays into Human-Environment interactions: An integrative research initiative in energy, ecology, and non-linear modeling.
- Sponsor: Ministry of Earth Sciences of GOI (Value: Rs. 31.8 Million) – ongoing
To understand the interaction between components of Earth and Human Systems at various spatial and temporal scales.

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- Sponsor: Department of Science & Technology of GOI (Rs. 15.1 Million) – ongoing.
To develop an Integrated Approach to Development and Environment in the Power Sector.
- Sponsor: Nuclear Power Corporation of India Ltd. (Value: Rs. 2.336 Million) – ongoing.
Study on the Role and Economic Viability of Nuclear power in India.

Select Publications

International Journals:

- Singh, J., **Srikanth, R.**, and Ramasesha, S.K., 2021. Dispersion of Particulate Matter and Sulphur Oxides from Thermal Power Plant: A Case Study. *Environmental Modelling and Assessment*. retrieved from <<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. retrieved from <<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. retrieved from <<https://doi.org/10.1016/j.enpol.2018.08.050>>
- **Raman Srikanth** & 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. retrieved from <<https://www.tandfonline.com/doi/full/10.1080/21582041.2017.1394484>>
- **Srikanth, R.**, Zhao, R., and Ramani, R.V., 1996. Single Breakage Studies to Determine the Relationships between Respirable Dust Generation and Coal Seam Characteristics. *Applied Occupational and Environmental Hygiene*. Vol. II, No.7, pp 662-668.
- retrieved from <<https://doi.org/10.1080/1047322X.1996.10389955>>
- **Srikanth, R.**, et al., 1995. The Contribution of Shield Movement to Airborne Dust Levels in Longwall Faces. *Mining Engineering*, Vol.47, No.6, pp.570-574.

Other Peer-reviewed Journals and Book Chapters:

- **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>>
- 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. retrieved from <<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. retrieved from <<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. retrieved from: <<http://www.currentscience.ac.in/Volumes/113/07/1233.pdf>>

Policy Briefs

- **R. Srikanth** and A. V. Krishnan, 2020. Transition plan for thermal power plants. NIAS Policy Brief.

Conference and Workshop Proceedings

- 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. retrieved from <<https://www.nias.res.in/publication/nias-transition-plan-integrated-approach-development-and-environment-power-sector>>
- 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. retrieved from <<https://www.nias.res.in/publication/dst---nias-sustainable-pathways-energy-utilisation---volume-2-state-environment>>
- 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. retrieved from <<https://www.nias.res.in/publication/dst---nias-sustainable-pathways-energy-utilisation---volume-1-improving-environmental>>
- Shyam Sundar R., HariKrishna, M., A V Krishnan, and **R Srikanth**, 2021. Executive Summary of the DST –NIAS Transition Plan for an Integrated Approach to Development and Environment in the Power Sector – Stakeholder consultation workshop. NIAS Workshop Report. NIAS/NSE/EEP/U/WR/03/2021. 39 pp. retrieved from <<https://www.nias.res.in/publication/dst---nias-stakeholder-consultation-workshop-discuss-nias-transition-plan-integrated>>
- 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. retrieved from <https://mgmiindia.in/docs/Journal_Vol_46_No_1_April_June_2020.pdf>
- **R Srikanth**, A V Krishnan, and Soumyadeep Das, 2020. Transition Path to promote Renewable Energy by DISCOMs. Souvenir published by India Energy Forum for the 19th Renewable Energy Summit held on January 17, 2020. pp. 15-24. Retrieved from <http://indiaenergyforum.org/19th-Renewable-Energy-Summit-Secretariat/docs/19th%20Renewable%20Energy%20Summit_2nd%20Draft.pdf>
- Sarvajeet Sinha and **R Srikanth**, 2020. Sustainable Coal Mining Bill – Stakeholder Consultation Workshop. NIAS Workshop Report No. NIAS/NSE/EEP/U/WR/19/2020. retrieved from <<https://www.nias.res.in/publication/dst---nias-stakeholder-consultation-workshop-discuss-nias-transition-plan-integrated>>
- 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. retrieved from <<https://www.nias.res.in/publication/optimal-electricity-mix-southern-region-summary-report-nias---moes-workshop-17th-january>>
- 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. retrieved from <<https://www.nias.res.in/publication/implementation-clean-coal-technologies-comply-“new-emission-norms”-thermal-power-plants>>

- Hippy Salk Kristle Nathan, Sarvajeet Kumar Sinha, Shilpa Srivastava, Jahnavi Sharma, and **R Srikanth**, 2019. Sustainability of Coal Mining: Challenges and Way Forward. NIAS Workshop Report No. NIAS/NSE/EEP/U/WR/071/2019. retrieved from <http://www.nias.res.in/publication/sustainability-coal-mining-challenges-and-way-forward-report-proceedings-nias-workshop>
- **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. retrieved from <http://www.nias.res.in/publication/implementation-clean-coal-technologies-comply-new-emission-norms-thermal-power-plants>
- **Srikanth, R.**, 2016. An Integrated Approach to Energy and Environment in the Coal Sector. Proceedings of the INAE-DST Roundtable on Clean Coal Technologies in India. pp. 73-90. retrieved from <https://www.inae.in/core/assets/fortuna-child/img/Final%20Report%20on%20Clean%20Coal%20Tech.pdf>
- 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 2010. 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., and Ramani, R.V., 1995. Relationships Between Coal Properties and Respirable Dust Generation Potential. Proceedings of the 7th US Mine Ventilation Symposium. pp 301-309. Society for Mining, Metallurgy and Exploration, Littleton, USA.

Popular Press

- **R Srikanth**, 2020. Costly solution: Careful on flue gas desulphurisers. Financial Express. 27th July. retrieved from <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. 19th May. retrieved from <https://www.thehindu.com/opinion/op-ed/a-jolt-to-national-energy-security/article31617586.ece>
- V P Lavanyaa and **R Srikanth**, 2020. Air quality in Bengaluru improves significantly post the lockdown. The Hindu Business Line. 6th May. retrieved from <https://www.thehindubusinessline.com/opinion/air-quality-in-bengaluru-improves-significantly-post-the-lockdown/article31516048.ece>
- **Srikanth, R.**, 2019. How to make coal mining sustainable. The Hindu Business Line. 25th November. retrieved from <https://www.thehindubusinessline.com/opinion/how-to-make-coal-mining-sustainable/article30078414.ece>
- **Srikanth, R.**, 2017. India Must Stay on its Clean Energy Path. The Asian Age. 11th June. retrieved from <http://www.asianage.com/opinion/oped/110617/360-degree-india-must-stay-on-its-clean-energy-path.html>

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- **Srikanth, R.**, 2017. Green Calling – Forests from Mines. Deccan Chronicle. 20th February. retrieved from <<http://www.asianage.com/life/more-features/230217/green-calling-forests-from-the-mines.html>>
- **Srikanth, R.** and Baldev Raj, 2016. Coal can choke your breath or light your house: Does India Have a Combat Plan? The Indian Economist. retrieved from <<https://qrius.com/coal-choke-light-india/>>
- **Srikanth, R.** and Baldev Raj, 2016. Industrial smoke levels are rising rapidly. Does India have a combat plan? The Indian Economist. retrieved from <<https://qrius.com/industrial-smoke-rising-india-combat/>>