

Rahul Chakrabarti

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Power System Operation Corporation Ltd., New Delhi and Shillong Feb 2017 – Present

Manager

Dec'18 – Apr'19, Mar'20 – Present

Deputy Manager

Feb'17 – Nov'18

In a span of 2 years, as part of National operations strategy team, I **drove strategic projects in partnership with the top leadership** to enable transformation towards a dramatically changing energy mix. I enabled integration of critical grid infrastructure of **USD 2bn+** improving inter-regional energy transfer capability **upto 2.2x**, spearheaded **program for alternative energy integration** in collaboration with **global consultants** from USA, Canada, and Australia, and redefined processes pan-India. Fostered team-building in the highly distributed pan-India operations strategy team, creating young leaders for the firm.

Strategic project management

- Led a **15-member team** as part of World Bank funded project of **~USD 225K** for sustainable energy integration, enabling **~250 MTOE CO2 reduction** and forging strategic partnerships
- Framed operations strategy as part of a **USD 1mn+** project, formulating **30/60/90 days action plan** for **84 deliverables** in line with long-term strategy

Tactical planning

- Generated **USD 30 mn+ annual savings** in congestion costs in India through network optimisation post commissioning of critical transmission projects
- Improved lead time of projects by **~6-9 months** and led to working capital optimisation by commissioning India's only high-power test facility

Strategy formulation and execution

- Improved network capacity by **~200%** and **enabled international markets** for electricity by designing cross-border energy transfer plans for Bangladesh and Bhutan
- Lobbied before **Central regulator** providing **key inputs to frame statutes** on long term planning of national grid & cross border trade of electricity

Power Grid Corporation of India Ltd., Shillong and Gurgaon July 2010 – Jan 2017

Senior Engineer

Dec'14 – Jan'17

Engineer

Jul'11 – Dec'14

Executive Trainee

Jul'10 – July'11

As a young engineer with 1.5 years of experience, **replaced a veteran** with 10+ years of experience, and **created from scratch a 12-member team** to lead operations planning department on a transformational journey.

Managed **commissioning** of the **largest generating plant** of 760 MW, 2 poles of the **only multi-terminal HVDC** link of 3000 MW capacity connecting North-East region to Northern region, and **cross-country connections** with Bangladesh & Myanmar, improving by **2x** ability of fragile North-Eastern (NE) regional system to meet its demand and dramatically reducing grey rhino events. **Introduced cutting edge WAMS technology** for improved situational awareness, and published case studies in globally acclaimed events at IEEE-IIT, Bombay and NASPI-NIST, USA.

Product and Process Innovation

- Led to savings of **~USD 43k** in **deferred CAPEX** by need identification and development of an in-house analysis tool in collaboration with Western Regional team for root-cause analysis
- Improved **situation awareness** of operators by **~250x** through integration of a high-resolution wide area measurement system and developing robust analytics capabilities

Operations management

- **Reduced preventable outages** by **~50%** and **eliminated grey rhino events** through design and development of frameworks for network vulnerability identification
- Aided **OPEX reduction** of state utilities through optimisation of power purchase portfolio by disseminating insights from **data driven electricity consumption behavior analysis** in 7 NE-Regional states

Regulatory advocacy

- Advised stakeholders on regulatory concurrence leading to the sanction of a **USD 110 mn+ project** for the implementation of dependable risk mitigation systems in NE-region

Education

M.B.A , General Management, Indian Institute of Management (IIM), Ahmedabad [GPA 3.32]	2019-2020
B.E. , Electrical Engineering, Jadavpur University, Kolkata [SGPA 8.34]	2006-2010

Skill Matrix

Strategy: Operational planning, Long-term planning, Policy and Regulatory Advocacy, Systems thinking
Program Management: Strategic Risk Mitigation, Project management, Project Finance, Agile methodology
Change Management: Written/interpersonal communication, Process & Product innovation, Resistance simplification
Business Development: Stakeholder relationships, Negotiations, Customer engagement, Ability to influence others
Data science and analytics: MS Office tools, Linear Regression, Hypothesis testing, Minitab, Tableau

Extra-Curriculars

- **Led a 2-member team** to conduct a **3-day workshop** in July 2017 in Thimphu, Bhutan under aegis of **SAARC Energy Center** building capacity for 5 SAARC nations for cross-border energy transfer
- Elected member of **Profile committee of PGPX(IIMA)**
- Involved in inter-section wars in sport events at IIMA. Blogger on Tripadvisor and host on Couchsurfing

Certifications

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| • MITx Micromasters : Supply Chain Fundamentals (Audit track) | 2020 |
| • SCM Pro (Supply Chain Management) – CII Institute of Logistics | 2020 |
| • Inbound Marketing – Hubspot Academy | 2020 |
| • Enterprise Design thinking practitioner – IBM | 2019 |
| • Age of Sustainable Development – SDG Academy / edX | 2018 |

Publications

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| • Whitepaper on ‘Sustainable Fashion: Move towards a Circular Economy’ at TRBS Summit, IIMA | 2019 |
| • Book chapter on ‘Indian power system operation with HVDCs and WAMS’ – Springer Pub | 2018 |
| • Papers on Operational challenges in Indian power grid and mitigation at NASPI, USA | 2017 |
| • Paper on oscillatory instability in North-Eastern regional power system at IIT, Bombay | 2014 |