

Dr. N. Srinivasa Prabhu

Ph.D. (Environmental Engineering)

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Photo

CURRENT LEADERSHIP POSITIONS

- **Chief Technology Officer** | Mazoon Green International LLC, Muscat, Oman
- **Managing Director** | eGreen Compliance Consultancy Private Limited
- **Managing Director** | Lotus Enviro Systems Private Limited
- **Director & CEO** | Pondicherry Solidwaste Management Company Private Limited

EDUCATION

- **Ph.D. in Environmental Engineering** Puducherry Technological University
- **M.S. in Environmental Engineering** Carnegie Mellon University, Pittsburgh, PA, USA
- **B.E. in Civil Engineering** College of Engineering-Guindy, Anna University, Chennai, India

PROFESSIONAL PROFILE

- **International Expertise:** Currently functioning as the CTO of Mazoon Green International LLC operating out of Muscat, Oman. Sharing expertise as an Environmental Compliance Expert for large infrastructure projects in Oman and UAE.
- **Academic Research:** Upon completion of the M.S. Program, worked in academic research programs on Air Quality and Climate Change Modelling in US EPA-funded university projects under Dr. Subramanian, Centre for Atmospheric Particle Studies, Carnegie Mellon University, USA for almost two years.
- **Consultancy Establishment:** Established an Environmental Consultancy firm in India principally focused on Pollution Control Systems, enabling industries to meet Environmental Compliance to sustain growth within the Climate Change purviews of low Carbon development.
- **Policy & Strategy:** Providing technical assistance in developing Pre-Feasibility Studies for River Basin Management for Flood Mitigation Strategies and Disaster Management for three River basins in Tamil Nadu with the Centre for Environmental Studies, Annamalai University.
- **Corporate Advisory:** Involved as a Team Member in developing strategies for corporate partnering and investments in emission reduction for Coal-based Thermal Power Plants towards compliance with the latest specific mandates of the Ministry of Environment, Forests & Climate Change.

CONSULTANCY & PROJECT HIGHLIGHTS

- **Energy Consortium of IIT-M:** Design and Supply of CO₂ Demonstration with a capacity of 10kg/hr.
- **M/s. Aqualogus (Lisbon, Portugal):** Spatial and Temporal Downscaling of Climate Data for Jhelum And Tawi Flood Recovery Project.
- **Larsen & Toubro (Abu Dhabi):** Development of Geo Database for Abu Dhabi International Airport Building – Terminal 1.
- **M/s. ACC Limited, Coimbatore:** Air Dispersion Modeling and Impact Analysis for Madukkarai Cement Works.
- **M/s. Lashkari & Bathena Infra projects LLP, Mumbai:** Coastal Regulation Zone (CRZ) studies for promoting Infrastructure projects.
- **M/s. PSMPPL, Puducherry:** Design and Implementation of Emission Treatment Systems for Biomedical Incinerator.
- **M/s. ITCOT Consultancy & Services Limited, Chennai:** Strategy Planner for Climate Change – Emission Trading & Market Mechanisms.
- **M/s. Enviro Services Private Limited, Chennai:** Technical Advisory for Climate Change Modelling Studies.
- **Centre for Environmental Studies, Annamalai University:** Technical Advisory for Impact Assessment & Coastal Modelling for Coastal Intervention Consultancy projects.

- **M/s. Fireman Refractories Private Limited, Vridhachalam:** Alternate Fuel Mix & Emission Reduction.
- **Advanced Centre for Solid Waste Management, Chennai:** Expert Member, Climate Change Research Group.

ENVIRONMENTAL RESEARCH

Research Assistant | Centre for Atmospheric Particles Study (CAPS CMU) *May 2016 - Sept 2017*

- Assisted in characterization and deployment of low-cost sensors for CO, CO₂, SO₂, O₃, and NO₂ in Pittsburgh, Allegheny County. Quantified error and bias under varying temperature and humidity conditions in both lab and ambient settings.

Machine Learning for Air Quality Sensors

May 2016 - Feb 2017

- Deployed 50 low-cost air quality sensor units (RAMPS) across Pittsburgh after field calibration against reference gas monitors utilizing machine learning algorithms to improve precision and accuracy.
- Results published in *Atmospheric Measurement Techniques Journal* (AMT-2017-260). Other publications pending review.

Impact of Climate Change on Sea Level Rise (Chesapeake Bay)

Spring 2016

- Developed a probabilistic model to predict sea level rise and resulting storm surge over ten observation stations in Chesapeake Bay.
- Mapped impacts using GIS for Paul C. Rizzo Associates, valuing location vulnerability to sea level rise.

Intern | Beuth Hochschule für Technik Berlin, Germany

May - July 2015

- Assisted in Life Cycle Assessment (LCA) of a waste-to-energy (WTE) plant in Berlin. Results indicated WTE plants emit 34% less greenhouse gases than traditional fossil fuel plants.
- Assessed future global supply/demand for resources like rare earths and solar energy via cradle-to-grave analysis.

Coastal Line Hydraulic Modeling (Cuddalore, India)

Spring 2015

- Developed a hydrodynamic model (MIKE 2D) for water quality prediction along 60km of coastline. Evaluated pollutant dispersion, finding minimal impact on the Bay of Bengal region.

DICE Model for Carbon Capture and Storage (CCS)

Spring 2015

- Conducted Robust Strategy Analysis using the DICE model for CO₂ abatement, accounting for uncertainties in forcing, leakage rate, capture cost, and reservoir capacity. Evaluated the inevitability of CCS for coal-based thermal power.

Carbon Footprint Calculator for CEG

2014 - 2015

- Developed a carbon footprint calculator per GHG protocol methodology and audited GHG emissions for College of Engineering Guindy (FY 2014-15). Tool submitted to the University Green Club for continued auditing.

TECHNICAL SKILLS

- **Modelling Skills:** AERMOD, ArcGIS, HEC-RAS, HEC-HMS, ArcSWAT, ERDAS IMAGINE, QGIS, GaBi LCA
- **Programming Skills:** MATLAB, Python, R
- **Other Tools:** Adobe Photoshop, Adobe Premier Pro