Shantanu Kongara

Senior Scientist

Mr. Kongara joined Sonoma Technology in 2024. He has extensive experience working on air quality-related projects for clients in the oil and gas, mining, and industrial sectors. He specializes in dispersion modeling and ambient air monitoring programs that support air quality permitting projects. His current focus is on greenhouse gas emission regulations, calculations, and reporting.

Before joining Sonoma Technology, Mr. Kongara worked at Stantec Consulting Services for over 16 years. He was instrumental in understanding the Environmental Protection Agency's (EPA) updated Chapter 40 Code of Federal Regulations (CFR) Part 98 Subpart W regulation and the California Air Resources Board (CARB) Mandatory Greenhouse Gas Reporting Regulation (MRR) and their impact on the oil and gas industry. He worked on gap analyses for upstream oil and gas clients in central California with respect to the existing and updated regulations. He prepared action plans for these clients to bridge identified gaps and helped implement these plans.

> ### Education
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> - MS, Mechanical Engineering, Arizona State University, Tempe
> - B-Tech, Mechanical Engineering, Vellore Institute of Technology, India

Mr. Kongara has experience in conducting dispersion modeling analyses for mining and industrial clients in Arizona, Nevada, and California using the EPA approved AERMOD model. These projects involved analyzing meteorological data to confirm their representativeness to the modeling domain, categorizing project emission units appropriately in the model, developing worst case operating scenarios, and executing the model based on EPA, state, and local modeling guidelines. He has supported clients in environmental litigation as a dispersion modeling subject matter expert.

Mr. Kongara has experience designing and executing meteorological monitoring programs per EPA guidelines for clients in pre- and post-construction phases of projects. He is well versed in programming Campbell Scientific dataloggers and compatible meteorological instrumentation to collect high-quality data. Mr. Kongara also has experience in field calibrations and audits of meteorological instrumentation and performed these duties routinely at several sites in Arizona, Nevada, Idaho and Minnesota.

Mr. Kongara has experience preparing air quality sections of Environmental Assessments (EA) and Environmental Impact Statements (EIS) for several upcoming mining and geothermal projects in Nevada. These projects involved describing the existing environmental conditions at proposed project sites and evaluating the impact of the projects on the environment during their operation and post completion.

Mr. Kongara has experience understanding a project's processes and developing emissions inventories based on EPA- and state-approved emission factors for air quality permitting purposes. He has developed emissions inventories for open pit mining operations, geothermal and solar energy facilities, agricultural facilities, steel plants, and asphalt plants. He also has experience completing annual emissions inventories for air quality permit compliance purposes.