

Tirtha is a Programme Associate at the Council on Energy, Environment and Water (CEEW), working on the development of sustainable and competitive pathways for Indian industry to support its low-carbon growth aspirations. At The Council, his research revolves around mineral resource security, greenhouse gas emissions, and energy efficiency of the domestic industrial sector in India.

Tirtha is currently developing a framework for the periodic assessment of non-fuel critical minerals for the manufacturing sector. He is also leading a project to understand the determinants of energy efficiency investments for the MSME sector in India, to complement the existing policies, programmes, and schemes targeted at the industry.

Tirtha is working closely with the GHG Platform India, developing an inventory of greenhouse gas emissions from the industrial sector and analysing the key underlying drivers for facilitating a policy dialogue on India's GHG emissions profile, sources, and related policies.

Before joining The Council, Tirtha was an exchange student at the University of Porto, Portugal, where he worked on a project to reduce environmental impact by the treatment of acid-mine drainage from an abandoned tungsten mine. He was a vacation research scholar at the University of Queensland, Brisbane, where he assisted in the development of an Online Risk Management module called RISKGATE.

Tirtha has completed a dual degree from the Indian Institute of Technology (Indian School of Mines), Dhanbad. He holds an undergraduate degree in Mineral Engineering and a Masters in Mineral Resource Management. His major dissertation project, 'Separation Characteristics of Selected Size fractions of low volatile coking coal in an Operating Dense Media Cyclone,' identified certain process parameters to improve the coal washing capability of India, beneficial for improving the overall footprint of current coal washing practices.