

RESEARCH AND CONSULTANCY



NEEF contributes to various Research and Consultancy Projects of National and International Importance, some of these are listed below.

Advanced Research Projects

- ✚ Energy, Income, Trade, and Environment Nexus: Case of India, the ERIA, Indonesia, 2020.
- ✚ Sustainability Aspects of the Education System in India, NTU, Singapore, 2018.
- ✚ Socio-economic Impacts of an LPG Subsidy Removal on the Household Sector in India, ERIA, Indonesia, 2017.
- ✚ Energy Market Integration in East Asia: Energy Trade Practices in India Review of Tariff and Non-Tariff Barriers in relation to ASEAN, sponsored by Economic Research Institute for ASEAN and East Asia (ERIA), Indonesia, 2013-14.
- ✚ Socio-economic and Environmental Aspects of Bioenergy in India and East Asia, sponsored by the Japan External Trade Organization (JETRO), Thailand, and Institute of Developing Economies (IDE), Japan, 2007-08
- ✚ Review of EIA and recommendations for an efficient management of the project on Swan River Flood Management and Integrated Land Development Project in Himachal Pradesh (H.P.) India for Japan Bank for International Cooperation (JBIC) to April-May, 2005.
- ✚ Mid-term evaluation of ICEF-WBPCB project on Pollution Prevention and Waste Minimization of Small-Scale Industries in Kolkata Metropolis Area, Consultant for India Canada Environment Facility (ICEF) for Jan-Feb, 2005.
- ✚ "State of Environment Report- Maharashtra", for the MoEFCC, Govt. of India, MPCB and GoM, 2004-05.
- ✚ Maharashtra State Development Report for the Planning Commission, Government of India, 2002-04.
- ✚ Training Programmes on Economic Evaluation of Environmental Impacts for the Senior Officers of Central and State Pollution Control Boards in India, under the World Bank assisted EMCBTA project, through CPCB and MOEF, Mumbai, September, 2002.
- ✚ "Development of Climate Change Impact Model for India", Sponsored by the Japan Environment Agency, 1998
- ✚ International Trade and Recycling in Developing Countries: Case of Wastepaper Trade in India, sponsored by the CREED, The Netherland and U.K, 1995.

Monitoring/ Surveys/ Field Work

NEEF undertakes basic/ primary research work including - energy and environment monitoring, surveys and field work and other action oriented tasks such as-

- Field Sampling of Air Pollutants using Hi-Vol. Samplers, Cascade Impactor, QCM-CI and Stack Samplers etc. Field Sampling of Water Pollutants for various pollutants like BOD, COD, DO, Colour, TDS, Conductivity, pH etc. Laboratory Analysis of Water and Air Pollutants using AAS, Spectrophotometers, ICPEs, XRF, INAA, CAS, IAS, etc.
- Economic, trade, energy and environmental data collection (base line and secondary data) for Wastepaper and Plastic Waste in India and the Asia-Pacific region.
- Socio-economic, export, health & environmental data collection survey for Indian Leather Tanning Industry.
- Socio-economic, export, health & environmental data collection survey for Indian Fish and Shellfish Industry.
- Economic and environmental data collection survey for Pollution Monitoring & Abatement Industry in India.

Energy and Environmental Modelling

Advanced / Secondary research of NEEF and computer modelling, includes -

- Energy Systems Modelling - Conventional and Renewable Energy
- Air Quality Modelling - Dispersion Modelling of Air Pollutants using Gaussian Plume Model.
- Receptor Modelling of Air Pollutants using
- Statistical Analysis of Pollutants - Chemical Mass Balance, Factor Analysis, Multiple Regression, Composite Receptor Model, Cluster Analysis etc.
- Water Quality Modelling
- Econometric Modelling of Local Pollutants - Air, Water, Solid Waste
- Environmental Impact Assessment
- Life Cycle Assessment
- Climate Change Modelling - Impact on Agricultural Productivity, Water Resources and Policy Analysis
- Risk Assessment -Socio-Economic Damage Estimations - Health and Non-Health effects due pollution.