

Types of Software and Models



- ▲ Ecotect
- ▲ CFD
- ▲ Contam
- ▲ Aermod
- ▲ Caline
- ▲ ISC
- ▲ Hazop
- ▲ BenMap
- ▲ LandGEM
- ▲ ToxCal
- ▲ Shadow Analyzer
- ▲ Amethyx
- ▲ E-Quest/ DOE
- ▲ Risk Assessment Models
- ▲ SPSS
- ▲ BioStat
- ▲ Wind Analyzers
- ▲ Aloha
- ▲ Surplot
- ▲ Marplot
- ▲ Basins
- ▲ SoundPlan
- ▲ Custic

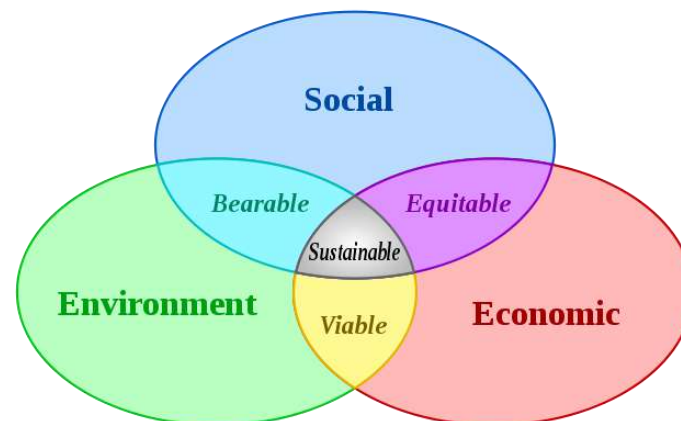


We are committed to our clients and Customers towards delivering Simple Scientific Solutions to any kind of Complex Environmental Challenges and Policy Aspects

We have strong team of experts from India as well as Abroad who provides Scientific and simple Technological Solutions to challenging Environmental Problems

EPRI

Single door Solutions for all the Environmental Challenges and Policy Matters



Corporate Address

Corporate Office 607, Oriana Business Park, 22nd Waggle Road, Waggle Estate, Thane (W). 400604

Phone: 022 - 20811018; 022 - 40102350

Email: info@eprindia.com; marketing@eprindia.com

Other Offices: Delhi; Bangalore; Bhubaneswar; Kolkata; Pune; Patna; Dombivili



Enviro Policy Research India Pvt. Ltd.

Simple Solution to Challenging Problems

Contact Us

For Technical Details and Queries;

Manager

manager@eprindia.com

Corporate Office 607, Oriana Business Park, 22nd Waggle Road, Waggle Estate, Thane (W). 400604

Phone: 022 - 20811018; 022 - 40102350

Website: www.eprindia.com

Know



Environment Policy and Research India (EPRI) is a knowledge management company with professional and committed individuals who provide simple and effective solutions through networking & partnership. It is committed to bring SUSTAINABILITY as a focus area in India and corporate who wish to assist in getting the real *Bharat* on its feet. We provide scientific solutions to complex environmental challenges.

We are committed to promote and bring in the technologies which will make a difference to the society not only for urban India but also rural areas which has hitherto remained untouched by technology progress. EPRI provides solution oriented towards better environment and energy planning for industries and buildings. However, its major focus is on pure scientific and engineering training, research, environment modeling, national-international knowledge management. We are a team of trained environmental professionals with skills in engineering, sci-

ence, economics, planning, audits, data analysts, policy analyses and its impact etc. We are supported by experts from India as well as abroad who not only provide wide ranging knowledge but also provide the diversity of expertise. Some of the recent collaborators are Japanese Automotive Research Institute (JARI), TTI, Texas A&M University, Birla College, Khalsa College, SPCE



Eco Quest

NEW QUESTNEW SOLUTIONS.....

Eco-Quest is a monthly magazine. It caters scientific articles from environment sector. It is circulated through research organizations like NEERI, IITs, IIMs, SPCBs, CPCB, MoEF, selected environmental consultancies, NGOs, colleges, industries, environmental equipment suppliers, manufacturers etc. Eco-Quest is trying to bridge the gap between Government, industries, students as well as common man. It has different section like news, papers, articles, general comments, reader feedback, etc. It is also being observed that most of the Indian researchers are publishing their work in international journals. Hence, recent Indian research which is accepted by international journal would be highlighted in a special column named “current research”. This would be useful for Indian researchers and budding scientist to evaluate their progress and also enhance their knowledge. Also this magazine would have details of upcoming environmental events, both national and international. Important environmental days are also highlighted through this magazine. Through this magazine, we would be encouraging scientific writing at student level. We would be also providing a platform for budding scientist to publish their work in paper section of the magazine. Also government could express their views on the environment and they could make the people aware and educate about their initiatives.

Editor in Chief	Dr. U. C Mishra; Former Director, Health, Safety & Environment Group, BARC
Editorial Board Members	Dr. B. Sengupta; Former Member Secretary, CPCB Mr. Sudhir Badami; Civil Engg., IIT–Bombay, Transportation, Anti Noise Pollution Activist Dr. Sunil Kumar; Scientist, NEERI Dr. Sunil Purohit; Principal, Mumbai College of Arts, Commerce and Science
Associate Editors	Dr. Abba Elizabeth; Professor, Somaiya College Mr. Avick Sil; Senior Manager, EPRI
Assistant Editors	Mr. Chandrashekar Chandagade

Want to Publish your work.....

For publishing articles and papers in Eco Quest, kindly main them to “editor.ecoquest@gmail.com”. Include a cover letter and complete contact information of the corresponding author: address, telephone, and phone numbers and email id. Microsoft word format is preferred for text and tables with 1.5 spacing. Times New Roman is the preferred typeface at 12 point size. Figures should be sent as separately in JPEG format. Keep formatting to a minimum, including section headings and footnotes; do not bold headings. Kindly, restrict italics to scientific names, foreign words and to appropriate parts of references. Do not indent and do not artificially split words with hyphens. Number all pages of the manuscript.

Papers: 2500–3000 words (Including Abstract, References, Tables and Figures)

Articles: 1000–2000 words (Including Abstract, References, Tables and Figures)

Website: <http://eco-quest.webs.com>

The Research League

Thinking Together, Thinking Beyond

EPRI has launched this program to overcome all the challenges for students and research communities

Its Necessity

- ♦ Researchers face challenges in finding relevant literature for re- search topic, guidance about research work and other activities
- ♦ Indian Researchers are not able to cope with the recent up gradation of international research communities
- ♦ Difficulties in publications (peer review journals)
- ♦ Difficulties in patent and technical report preparation
- ♦ Interpretation of scientific data and data validations
- ♦ Statistical evaluation of data



About the Programme

- ♦ Access to blog and community memberships
- ♦ Scientific and technical research knowledge sharing
- ♦ Guidance on Research topics
- ♦ Career Guidance
- ♦ Job and sustainable entrepreneurship opportunities
- ♦ Statistical data evaluation
- ♦ Assisting in publication of papers in peer review journals
- ♦ Assisting in technical report and patent writing
- ♦ Patent filing
- ♦ Interpretation of data
- ♦ Evaluation of research proposals
- ♦ Discounts for various conferences, seminars and workshops
- ♦ Free details of conferences, seminars and workshops

“Research League” will bridge the gap between researchers and success stories

Currently more than 100 researchers are in this league who are reaping the benefit across India and other countries in the world

Registration Details

Registration Type	Periods (Months)	Fees (Rs)
Cavitas	6	3,000
Crossing the Hurdle	12	5,000
Final Frontier	24	8,000

Kindly make payment in the favour of “eprindia”
For more details: researchleague.epri@gmail.com



Wings of EPRI



Knowledge Support

Wastewater Recycling	EIA and EC Green Building High Rise Clearance
Low footprint and ecological STP, ETPs	Environmental Audit Energy, Air and Water Audit DMP and Risk Assessment Patent writing and filing
Solid Waste Management (SWM)	Environmental Modelling Air, Water and Carbon Footprinting Traffic management and modelling
Renewable Energy Solutions	CSR and CER Scientific report writing Scientific Evaluation of Documents and products

Institute

- Internship for All
- Career Counselling
- Statistical Evaluation
- Interpretation of data
- Publications
- Awareness Program
- Arranging Workshops, Seminars, Conferences

Environment Clearance (EC)



EPRI is a knowledge management institute with professional and committed individuals who not only wish to bring the environment policy and research in focus but also provide simple and effective solutions through networking & partnerships.

Services offered for EC and EIA

- Filling Form 1 and 1A
- Presentation at SEAC and MoEF
- Techno feasibility and scientific report preparation for environmental clearance
- Onsite and off site DMP during construction and operational phase
- Heat island impact assessment and mitigation planning
- Construction phase monitoring strategy
- Water budgeting
- Air quality assessment
- Traffic management planning
- Noise reduction strategies
- Socio-economic analysis
- Building material assessment
- Energy conservation strategies
- Environment management plan
- Cost benefit analysis
- Primary and secondary data collection
- Site survey assessment
- Baseline data collection
- Air, energy modeling
- R & R issues and solution
- Public hearing assistance



Other Services

EPRI is a knowledge management institute with professional and committed individuals who not only wish to bring the environment policy and research in focus but also provide simple and effective solutions through networking & partnerships.

What Else we Do....

- ♦ Consent to establish and operate
- ♦ Arranging Workshops, Conferences and Seminars at all level
- ♦ Arranging Exhibition & Debates at International, National, Local & Student Level
- ♦ Patent & Scientific paper preparation assistance
- ♦ Technical Report Preparation
- ♦ Sustainability Reporting
- ♦ Corporate Environmental Profiling
- ♦ Scientific Evaluation of Documents
- ♦ Environmental Modeling
- ♦ Technical guidance
- ♦ Career counseling

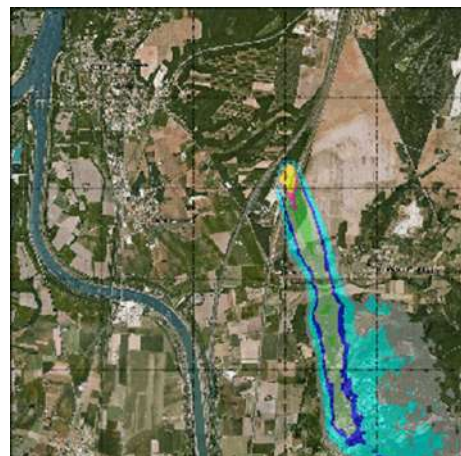
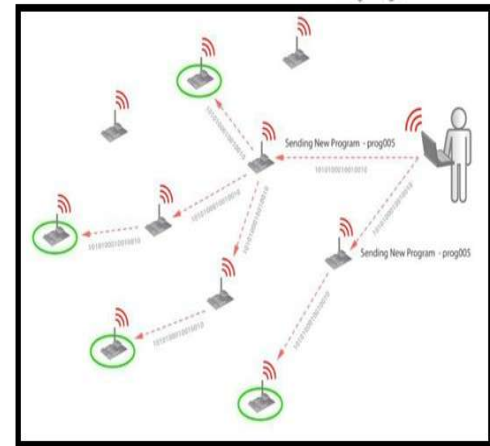
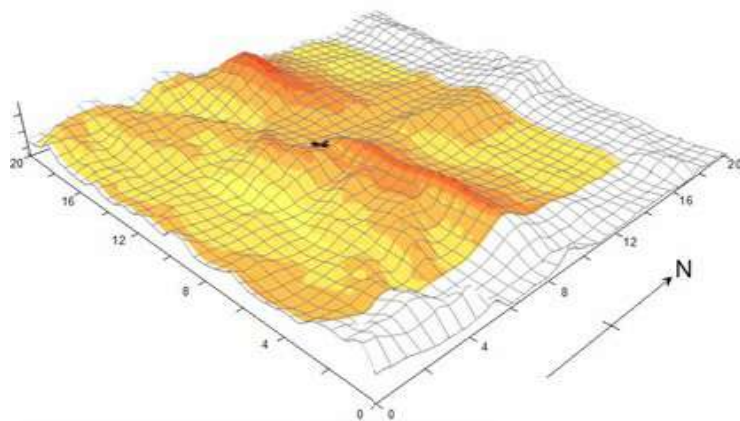


Online Air Monitoring

EPRI has developed online monitoring system for various air pollutants. These technologies are developed along with IITians under indigenous and Indian scenarios. Mostly of these sensor based analysis has been verified and appreciated by NEERI, IITs, NGT, and other government bodies

Parameters Covered

- Ammonia
- Mercaptans
- Hydrogen sulphide
- VOCs
- Particulate matter
- Isobutane
- Ethanol
- Toluene
- Carbon monoxide
- Methane
- Hydrogen
- LPG
- Ozone
- Nitrogen Dioxide
- Temperature
- Humidity
- Dimethyl sulphate
- Any other specified parameters



The Sensor



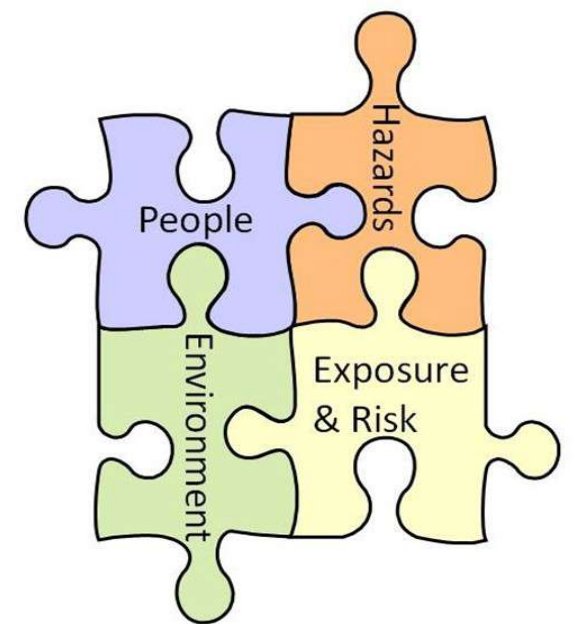
Applications

- Construction sites
- Industrial application
- MSW sites
- Ambient Air monitoring
- Continuous monitoring
- Quick decision making
- Process control



Disaster Management Plan (DMP)

"Prevention is always better than cure." Hence, it is important for any individuals, say in industries or building to prepare themselves for any kind of emergency. EPRI provides strategic planning for both on site and off site disaster, with equal emphasis on both natural and man made disasters. This would enable one to reduce the impact and also lead to workable safety plans.



Services offered for DMP

- Risk assessment; environmental and health
- Scenario creation and prediction of impacts of natural disasters like earthquake, cyclone, flood, tsunami, lightening, etc along with their mitigation measures and actions
- Scenario creation and prediction of impacts of manmade disasters like fire (electrical, gas leak, general fire etc), bomb threat, work place violence, terrorist attacks, water supply disruption, tele-communication disruption, railroad-air travel disruption, etc
- Effect of predicated impacts on population and possible environment
- Prevention, evacuation and mitigation plans for all scenario based DMP
- Community awareness
- Do and Don'ts for pre and post disaster situations



Green Buildings



EPRI through its expertise team of certified auditor, helps in formulating strategies and implementing the same for Green buildings. We aid in reporting, certification and maintenance of building on contractual basis.



Offering for Green Buildings

- Formulating strategies as per IGBC, LEED, GRIHA and local municipality guidelines
- Formulating strategies to mitigate Urban Heat island (UHI) impact
- Providing measures for environment friendly heat outlet locations
- Environment friendly architectural design feature for green concept
- Providing design feature for improving Indoor Air quality (IAQ)
- IAQ assessment as per ASHRAE standard and ICMR quality status
- Improving the ventilation rate through design and other measures
- Strategizing design feature to mitigate neighborhood shadow effect
- Planning on-site and offsite Disaster management plan (DMP)
- Energy modeling and energy profiling
- Assisting in reducing energy profile
- Day light profiling

Bioculture - ETP; STP; CETPs

EPRI has developed their own culture for application in ETP, STP and CETPs. They mainly consists of bacteria; bio stimulants and micronutrients. They can digest and decompose inorganic chemicals, feces, urine, excreta, toilet papers, food scraps, and other organic waste. We have successfully implemented them at various ETPs, STPs and CETPs across India



Mode of Action

Organic and inorganic solids



Odourless compounds



Applications

- Waste Water Treatment Plants
- Effluent Treatment Plants (ETPs)
- Sewage Treatment Plants (STPs)
- Common Effluent Treatment Plants (CETPs)
- Septic tanks
- Nallahs
- Lakes
- USABs and Lagoons

Bio augmentation - Advantages

- Reduces BOD/COD
- Increases MLSS
- Breakdowns fats and grease
- Reduces sludge built up
- Odour control
- Improves biomass dynamics
- Robust
- Less labour intensive
- Reduces maintenance and chemical cost
- Easy to use
- Improves performance and aid in recovering from shock loads



Appearance: Powdered form
pH range: 5.5 - 9.5
Temperature range: 5°C - 55°C
Shelf Life: 2 years

Oil Spillage and Toxicity Assessment



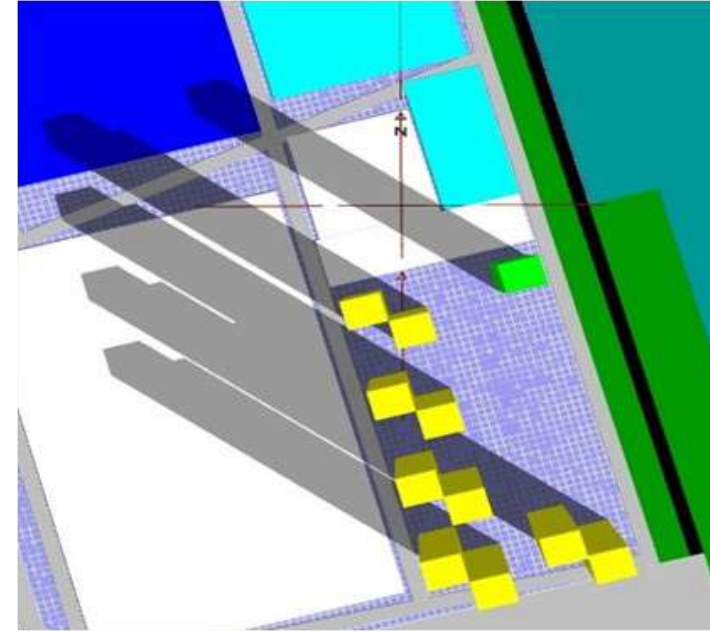
EPRI has team of expertise to carryout toxicity assessment for drilling fluids, mud, oil, etc. We also carry out assessment of oil spillage and its effect on environment through dispersion modeling software and also its financial aspects

Services offered

- Toxicity assessment as per OECD, MoEF, USEPA, Marpol Guidelines
- Toxicity assessment for different organisms like fishes, earthworms, soil bacteria and fungi, soil fertility, crustaceans, benthic organisms, etc. as per OECD
- Biodegradability assessment
- Heavy metal quantification
- Probit—Logit analysis, statistical evaluation
- Technical report writing
- Scientific evaluation of oil spillage and its effect
- Dispersion modeling
- Financial modeling
- Disaster Management Planning
- Oil spill clean up using physical, chemical and biological method
- Culture development and preservation
- Bioremediation
- Feasibility and treatability studies
- Health and safety analysis
- Policy analysis
- Technology assessment and implementation



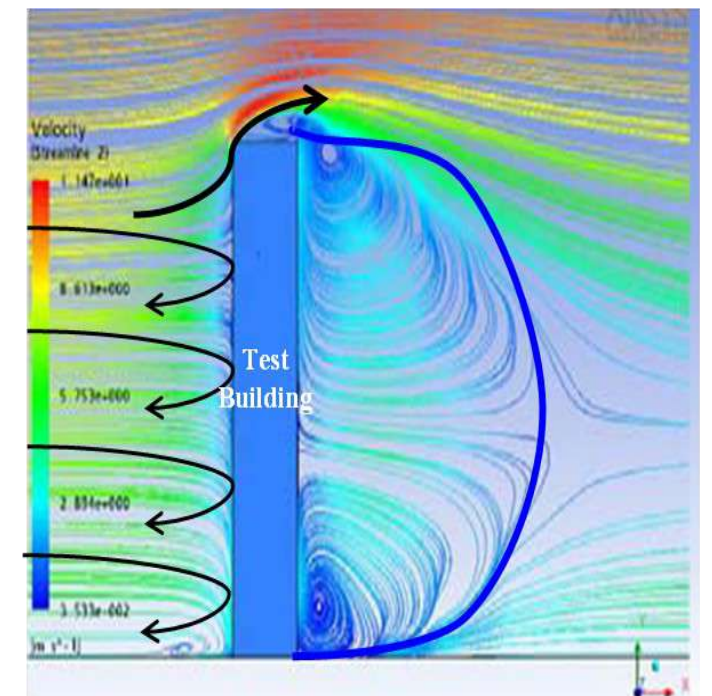
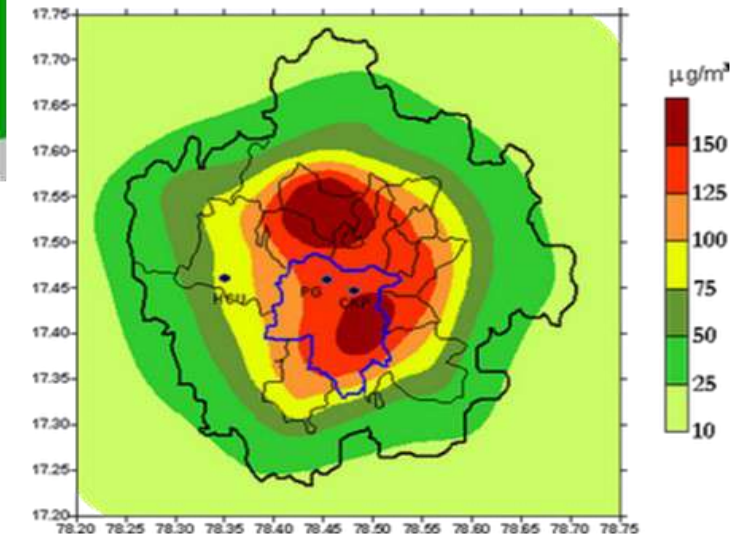
High Rise Clearance (HRC)



EPRI through its expertise team helps in formulating strategies and implementing the same for high rise buildings. We aid in reporting, certification and maintenance of building on contractual basis.

Services for Tall Buildings

- Plot Area and Neighborhood Shadow Analysis
- Traffic and Air Pollution Impact Studies along with mitigations
- Microclimate and UHI assessment and its mitigation
- Wind analysis
- Energy profiling and management
- Indoor air quality assessment (IAQ)
- Public amenity creation
- Water and wastewater management
- Material use and their Life Cycle Assessment (LCA)
- Ecological planning
- Open space management
- Solid waste management
- Environment improvement planning
- Environment protection and preservation plan (EPPP)



Industrial Solutions

GREEN Industries

Industrial Offerings

- Obtaining Consent to Establish and Operate from SPCBs
- Environmental Clearance (EC)
- Environment Impact Assessments (EIA)
- Renewal of consent
- Compliance monitoring and Reporting
- Environmental, Air, Water and Energy Audits
- ISO Audits
- Carbon, Air and Water Footprintings
- IAQ assessment as per ASHRAE standard and ICMR quality status
- Improving the ventilation rate through design and other measures
- Planning on-site and offsite Disaster management plan (DMP)
- Energy modeling and energy profiling
- Assisting in reducing energy demand
- Mass balance ratio
- Process audit
- Online monitoring of Environment Parameters
- VOC monitoring
- Life Cycle Assessment
- Industry specific Clean Technologies
- Automations
- Risk Assessments
- Hazard mapping
- Mock Drills and DMP management
- Health monitoring and mapping
- Workers safety and EHS planning
- Environment Management Plan
- Designing, consulting, commissioning and maintenance of STP and ETP



EPRI through its expertise team helps in formulating strategies and implementing the same for all types of industries towards making them Green and Sustainable in Environment point of view

Dust Control Agent

EPRI has developed dust control agent to prevent fugitive emission of dust. This dust control agent act as suppressant that increases the surface tension to prevent dust emission. This agent has been developed with international standards and specification.

Applications Rate: INR. 25 per m²



Advantages

- Environment friendly
- No harmful or toxic chemicals
- Easily applied
- No odour nuisance
- No poisoning
- No irritation and skin problems
- Cost effective
- No seasonal variation in its effectiveness
- Internationally approved
- Tested and certified

Applications

- Construction dust management
- Roadside dust suppressant
- Coal mines dust control
- Landfill site dust management
- Wetting agent
- Process dust control



Training and Guidance

EPRI has pool of expertise from India and abroad. We are all willing to share our knowledge, experience and expertise to boost your career for longer run. Thus, through training and guidance, we are bridging the gap between students and demand of research sectors, industries and new innovative ideas in teaching and personality development. We provide both classroom and online models for career development and training

We offer Training in.....

- Air and Water Modeling
- Sustainable Development
- Wastewater Management
- Designing of Solid Waste Management (SWM) plant
- Technical know how and designing of waste Water Treatment Plant
- Statistical Analysis of Scientific Data
- Scientific Paper Writing
- Noise Quality Mapping and Modeling
- Environmental Impact Assessment (EIA)
- Environmental Management Training
- Industrial Hygiene and Safety
- Environmental Law
- ISO 14000 Audit
- Providing training & guidance to students (B. Sc, M. Sc, B.E, B.Tech, M. Phil & M. Tech) on project and dissertations
- Counseling for Green Career
- Scientific report writing
- Entrepreneurships



**Spreading
Knowledge**

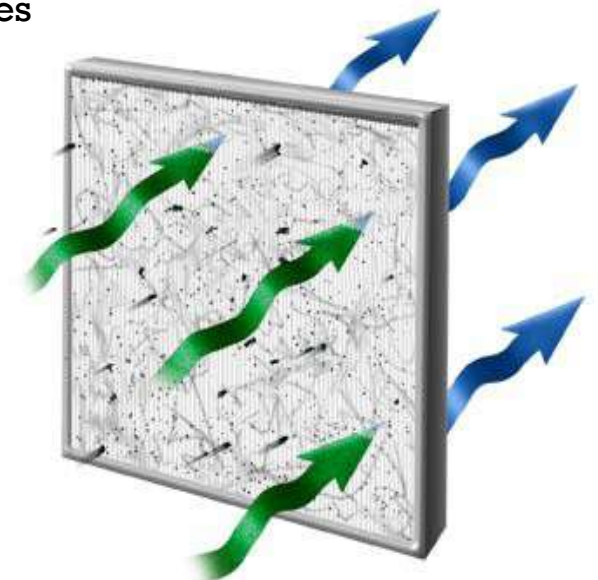
Indoor Air Quality (IAQ) Management



EPRI provides consultancy, designing and commissioning of IAQ assessment along with solution for household and commercial level. We also provide site specific manual for maintenance of IAQ. We provide technical and natural based solution for maintenance of IAQ.

Services for IAQ

- ♦ Assessing IAQ as per ASHRAE standard and ICMR quality status
- ♦ Assessing ventilation rates as per ASHRAE standard
- ♦ Assessing and improving ACH rates as per WHO standards
- ♦ Designing and planning for improving IAQ
- ♦ Modeling assessment of IAQ
- ♦ IAQ and Health assessment
- ♦ IAQ monitoring along with remedial measures
- ♦ Measures for betterment of IAQ



Wastewater Recycling and Reuse



EPRI provides consultancy, designing and commissioning of STP, ETP and CETPs. We also assist in undertaking government clearances through DPR.

Domestic Wastewater Recycling



- * Designing STP for recycling grey and black water
- * Designing of natural and mechanical STPs
- * Assisting in techno feasibility assessment for different technologies
- * Aiding and implementing strategies for water management



Industrial Effluent Solution

- * Designing and commissioning of ETP
- * Evaluating the efficiency of existing ETP
- * Up-gradation of existing ETP
- * Maintenance of ETP



Common Effluent Treatment Plant

- * Designing CETP
- * Evaluating the performance and efficiency of existing CETP
- * Up-gradation of existing CETP
- * Detailed Project report (DPR) preparation
- * Environmental and performance audit

Water Audit

- * Estimating water requirement and wastewater generation as per NBC 2005 and EIA manuals
- * Evaluating water requirement as per individuals habitat
- * Water budgeting for emergency situations
- * Water usage profiling for industries
- * Management of water at every step of manufacturing process
- * Reducing water demand at every level
- * Wastewater generation through activity profile of process
- * Providing measures for reuse and recycle of water

Patent Writing and Filing

One can protect their technologies, products, innovations, formulas, etc through patent. EPRI has expertise team to develop the novel research into an innovative patent. This provides protection rights to the developer and benefits them for long term run



Offerings for Patent Writing and Filing

- * Writing patent as per guidelines
- * Searching of patent and similar articles through search data bases
- * Examination of products, utilities, etc to be patented
- * Filing of patent
- * Publication
- * Procuring issuing of patents
- * Developing Marking strategies and Business Modules



- * Providing market feedback
- * Assisting in substantive examinations
- * Providing strategies to avoid opposition from third parties
- * Renewal of patents
- * Differentiating between IPR and Patent

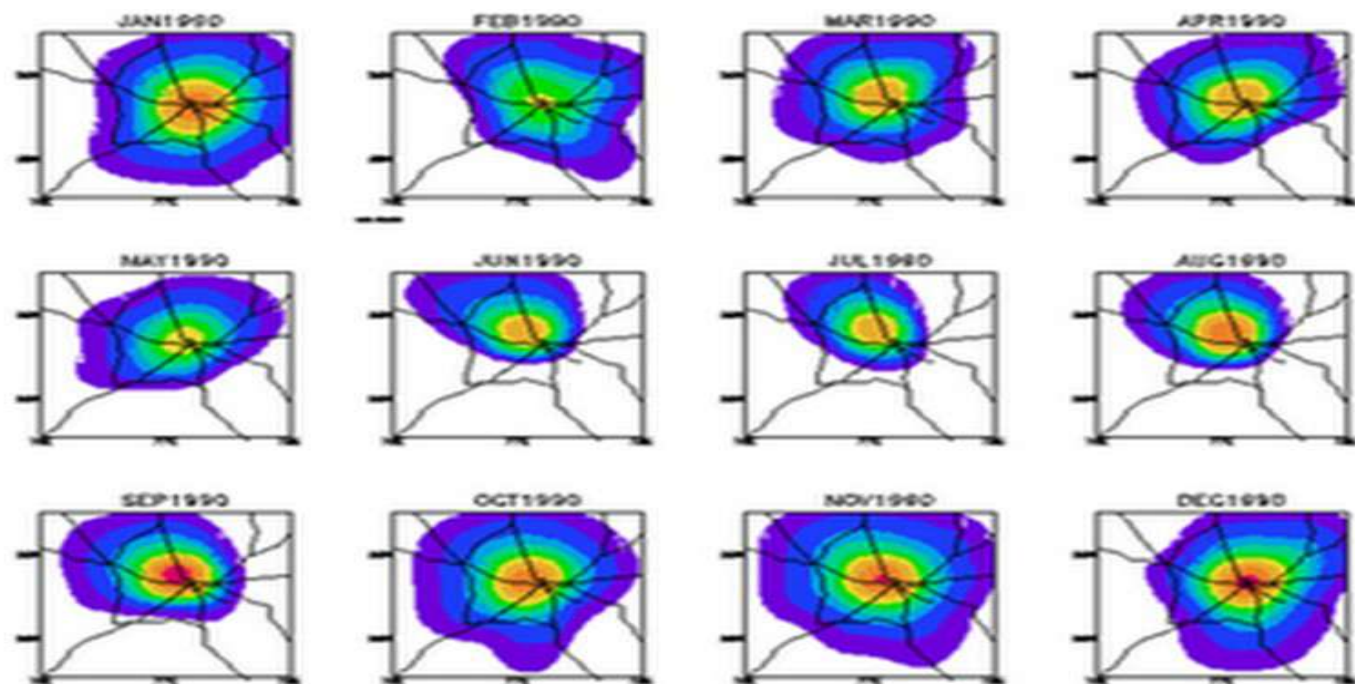
Traffic Planning and Modeling

EPRI has expertise team to carryout traffic planning and modeling using software like CALINE, AERMOD, ISC and others. We carryout congestion analysis and provide strategies for de-congestion and reduction of pollutions.



Services for Traffic planning and modelling

- * Traffic management planning at local, state and national level
- * Vehicular congestion (V/C ratio) analysis
- * Trip generation and scenario prediction for VC analysis
- * Air modeling using USEPA recommended model
- * Indian driving Cycle (IDC) based air modeling
- * Pollutant dispersion matrix
- * Road capacity build up and mapping
- * Design feasibility assessment for roads
- * Community awareness



Solid Waste Management (SWM)

EPRI provides consultancy, designing and commissioning of Solid waste treatment unit. We also assist in undertaking government clearances through DPR. We provide technologies like composting, vermicomposting, biogas, IVC, etc. Finally, we also undertake maintenance and management of Solid waste.

Services for SWM

Strategizing Solid waste management at

- * Society level
- * Community level
- * Local
- * City
- * District
- * State
- * National level



- Estimation of solid waste generation from household and corporate sector
- Characterization of solid waste generation
- Strategizing management of different types of waste
- Community Awareness
- Feasibility assessment for SWM technology
- Preparing technical bid document for appropriate SWM technology
- Feasibility assessment for waste to energy options
- Strategizing options for waste to energy
- Providing solid waste treatment technologies like composting, vermicomposting, biogas, IVC, etc
- Management of dry waste
- Overall management of waste
- Maintenance of technologies
- Auditing



Corporate Social Responsibility (CSR)

EPRI has expertise to boost your business through scientific management of CSR. Through CSR brand value of company is enhanced and we provide both technological as well as scientific know how.



Services for CSR



- Planning and support CSR activities
- Development support for CER
- Sustainability programme for hospitals, colleges of-fices, malls, houses, buildings etc.
- Assisting and supporting many business organiza-tions, corporate, media sector etc.
- Compliance report preparation
- Providing environment friendly measures
- Improving environmental health status
- Solution based awareness program
- Life cycle assessment
- Environmental compliance of a product
- Strategizing business and research opportunities

Environmental Audit

EPRI is a knowledge management institute with professional and committed individuals who not only wish to bring the environment policy and re-search in focus but also provide simple and effec-tive solutions through networking & partnerships.

Services for Environmental Audit

- Auditing as per ISO 14001
- Compliance Reporting and Auditing
- Auditing as per World Bank, IFC, USEPA, ASHRAE, NBC codes and other standards
- Filing of consent as per SPCB
- Air, Water and Energy Audit
- Sustainable Audit
- Carbon footprinting
- Air and water footprinting
- Wastewater Management
- Technical know how of STP, ETP, CETPs
- Noise Quality Mapping and Modeling
- Industrial Hygiene and Safety Audit
- Environmental Law applicability
- Development of documentation and industry specific software
- DMP and mock drills

