

TERI – Western Regional Centre Brochure:  
Environmental Status and Resource Management (ESRM)

## About TERI

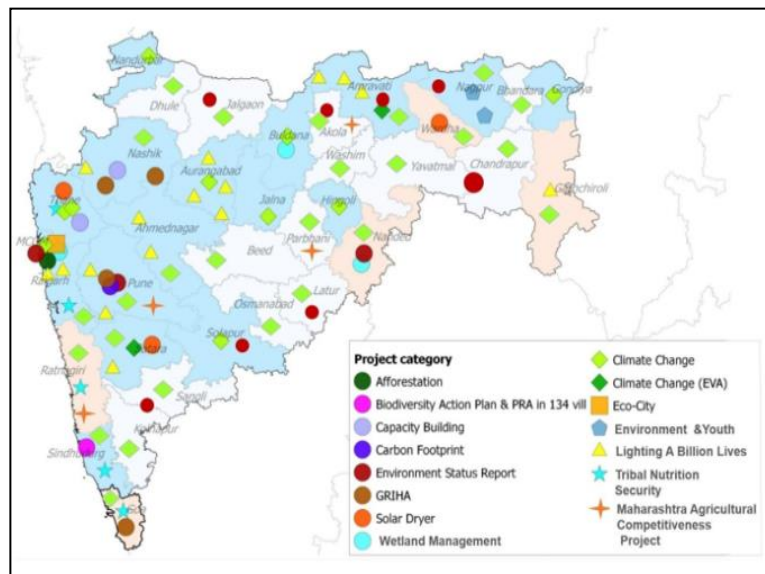
Headquartered in New Delhi, The Energy and Resources Institute (TERI; <https://www.teriin.org/>) was established in 1974. Since then, it has emerged as a think tank and research institution in the fields of energy, environment, climate change and sustainability and has been at the forefront in providing expertise and professional services (research, policy, consultancy, and implementation) to national and international clients including government, bilateral and multilateral agencies.

The institute's national presence with regional offices in Mumbai, Goa, Bangalore and Guwahati, along with diversity of professional staff belonging to diverse disciplines and highly specialized fields such as engineering, economics, natural and social science, biotechnology, architecture, public policy, and information science; provide TERI an added advantage of having local presence and dedicated regional resources. This has helped TERI create a nationwide network, along with several collaborations with several State Governments, Government agencies and bilateral organizations.

## TERI Western Regional Centre

Since its inception in 2006, TERI's Western Regional Centre (WRC) in Mumbai has been dedicatedly working to provide pertinent, independent and objectively oriented research in the broad fields of nutrition, energy, climate change, environment, bioprospecting, sustainable communities, and livelihood. The Nutrition Security Division based at WRC has also implemented several initiatives that directly and indirectly affect the nutritional security of households in both urban and rural communities such as water access, energy access, and livelihood security and so on.

The centre activities are based on action-oriented approaches to engage communities, along with capacity building, women empowerment and promotion of innovative activities such as nutrient fortification and food processing for income generation, along with providing support and market linkages to promote these products (<https://www.teriin.org/projects/nutrition-security/projects.php>).



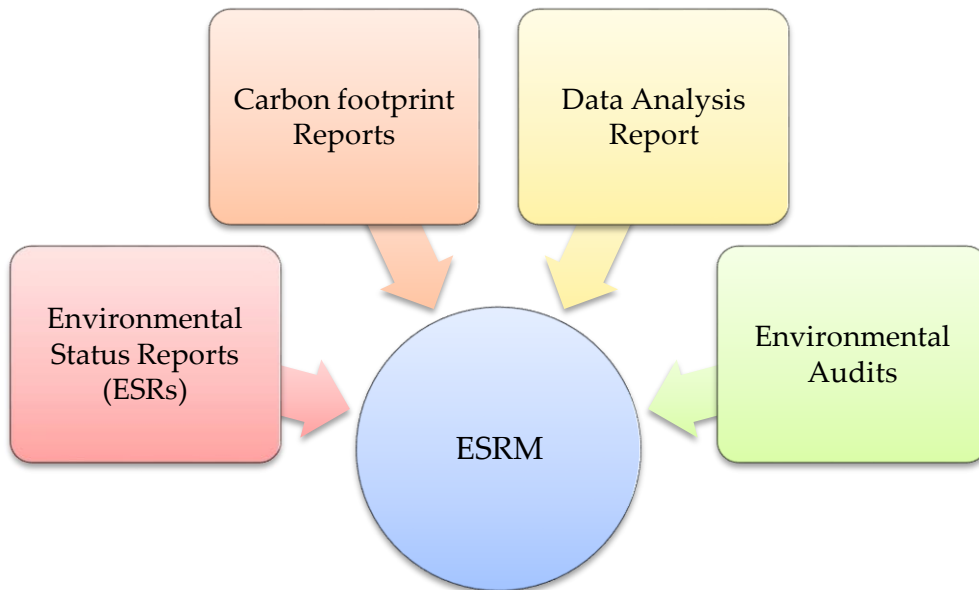
TERI WRC's presence in the state of Maharashtra

### **Environmental Status and Resource Management**

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ESRM Group of TERI WRC mainly focuses on the mapping of anthropogenic pressures and their impact on environment. The group is involved in pollution monitoring, analysis, resource mapping and environmental reporting. The group works with multidisciplinary stakeholders such government bodies (Urban Local Bodies and State Pollution Control Board), Industries and other corporate sector.

### **Activities of ESRM**



## 1. Environmental Status Reports:

- The ESRs indicates city's growth factors, environmental concerns and its impacts.
- As per the guidelines published in June 2009, by the Department of Environment, Government of Maharashtra, the ESR has to be developed as per the D-P-S-I-R (Driving Force-Pressure- State -Impact- Response) framework
- It provides information about city's infrastructure related to water supply, sewage treatment, traffic and transportation, solid waste management, biodiversity conservation, as well as city's overall environmental quality and possible mitigation measures for its improvement.

Completed Projects			
Sr no.	Title	Year	Link
1	Environmental Status Report for Pune city	2009-10	<a href="https://www.teriin.org/sites/default/files/2018-02/2010WR02%20Pune_ESR_2009-2010_English.pdf">https://www.teriin.org/sites/default/files/2018-02/2010WR02%20Pune_ESR_2009-2010_English.pdf</a>
2	Environmental Status Report for Nanded Waghala city	2013-14	<a href="https://nwcmc.gov.in/files/ESR%20Report%20(12.09.2016).pdf">https://nwcmc.gov.in/files/ESR%20Report%20(12.09.2016).pdf</a>
3	Environmental Status Report for Mumbai Metropolitan Region	2014-15	<a href="https://www.mmreis.org.in/images/research/Environmental%20Status%20Report%20for%20Mumbai%20Metropolitan%20Region-ilovepdf-compressed.pdf">https://www.mmreis.org.in/images/research/Environmental%20Status%20Report%20for%20Mumbai%20Metropolitan%20Region-ilovepdf-compressed.pdf</a>
4	Environmental Status Report for Kolhapur city	2015-16	<a href="https://www.teriin.org/project/preparation-environmental-status-report-esr-kolhapur-2015-16">https://www.teriin.org/project/preparation-environmental-status-report-esr-kolhapur-2015-16</a>
5	Environmental Status Report for Navi Mumbai	Annual Basis (Since 2012 - 19)	<a href="https://www.nmmc.gov.in/navimumbai/assets/251/2020/02/mediafiles/ESR_2018-19_English.pdf">https://www.nmmc.gov.in/navimumbai/assets/251/2020/02/mediafiles/ESR_2018-19_English.pdf</a>

## 2. Data Analysis Report

- TERI has been extending support to the State Pollution Control Board (SPCB) in sorting and analyzing the data sets whilst developing graphical and spatial illustrations.
- It helps in providing a comprehensive overview of the situation at a glance and helps develop strategies for reducing pollution levels.
- Since 2011-12, these reports get released annually on June 5<sup>th</sup>, i.e. World Environment Day at the hands of The Hon'ble Chief Minister of Maharashtra

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2018-19

2017-18



2016-17

2015-16

Air and Water Quality Reports prepared by TERI

Completed Projects			
Sr No.	Title	Year	Link
1	Strategic Paper on Network of Ambient Air Quality Monitoring Across Maharashtra	2014- 16	<a href="https://www.mpcb.gov.in/air-quality/archive">https://www.mpcb.gov.in/air-quality/archive</a>
2	Air Quality Status of Maharashtra	7 consecutive years (2012-19)	<a href="https://www.mpcb.gov.in/sites/default/files/air-quality/AIRQualityReport20192022102020.pdf">https://www.mpcb.gov.in/sites/default/files/air-quality/AIRQualityReport20192022102020.pdf</a>
3	Water Quality Status of Maharashtra	7 consecutive years (2012-19)	<a href="https://www.mpcb.gov.in/sites/default/files/focus-area-reports-documents/Water_Quality_Status_of_Maharashtra_2018_19_30092019.pdf">https://www.mpcb.gov.in/sites/default/files/focus-area-reports-documents/Water_Quality_Status_of_Maharashtra_2018_19_30092019.pdf</a>
Ongoing Projects			
1	Assessment of Ambient air quality in the nearby vicinity of Bricks Kilns in Thane and Palghar District, Maharashtra	2020-Ongoing	<ul style="list-style-type: none"> <li>• Site survey and Ambient air quality monitoring in the vicinity of brick kilns in Thane and Palghar district.</li> <li>• In each of the selected locations ambient air quality monitoring for parameters – PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub> and SO<sub>2</sub> will be carried out twice a week for period of two weeks and results will be compared to CPCB norms.</li> <li>• Secondary Literature Review on Fly ash Utilization in Brick Manufacturing</li> </ul>

### 3. Carbon Footprint Report

Carbon Footprint is amount of total Green House Gas (GHG) emissions associated with all activities of a person or entities like buildings, municipal corporations, industrial complexes or country. It includes direct emissions which results from use of fossil fuels during manufacturing, transportation as well as indirect emissions which are associated with electricity production, consumable goods and services. ESRM group of TERI-WRC studies carbon footprint at city level and corporate sector

#### Highlights of the report

- Determine the baseline carbon inventory and estimate the carbon footprint of the city
- Source apportionment of the GHG emissions
- Recommendation and action plan for reducing the GHG emissions over a set time frame

Completed Projects			
Sr No.	Title	Year	Link
1	Carbon Inventory of Pune City	2009-10	<a href="https://www.pmc.gov.in/sites/default/files/miscellaneous/Carbon_Inventory_of_Pune_City_2012.pdf">https://www.pmc.gov.in/sites/default/files/miscellaneous/Carbon_Inventory_of_Pune_City_2012.pdf</a>
2	Carbon Inventory of Navi Mumbai	2011-12	<a href="https://www.teriin.org/sites/default/files/2018-02/2012MC03%20Carbon%20Inventory_Navi%20Mumbai.pdf">https://www.teriin.org/sites/default/files/2018-02/2012MC03%20Carbon%20Inventory_Navi%20Mumbai.pdf</a>
3	Carbon Footprint of Royal Western India Turf Club	2015-16	

### 4. Environmental Audits

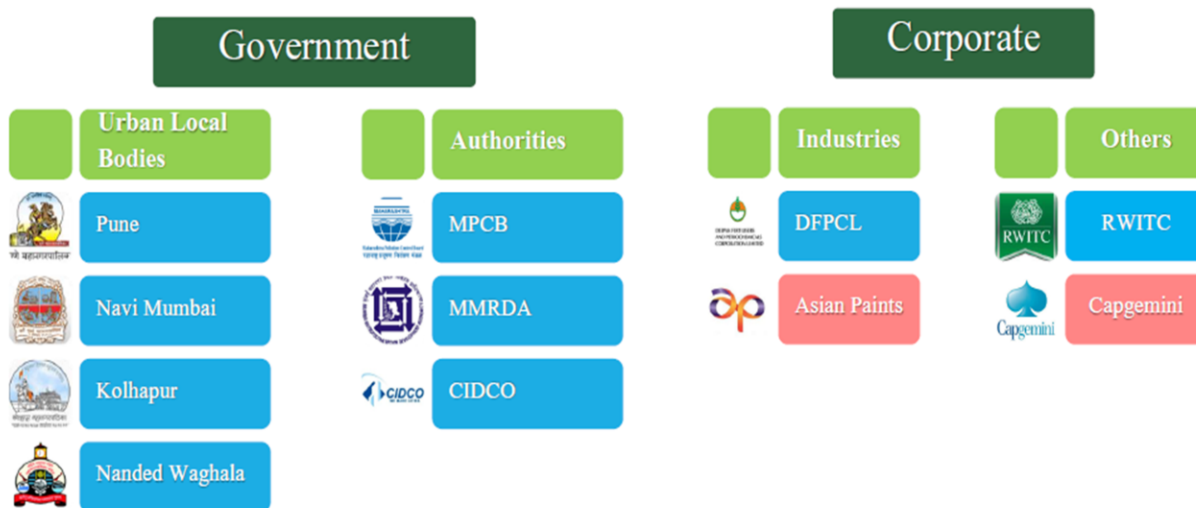
Industrial belt in Navi Mumbai has more than 3000 units. TERI WRC conducts environmental audits for these units. Auditing for air quality, water quality, solid waste and Hazardous waste with compliance with respective ISO and Standard norms are carried out by the group.

Completed Project		
Sr No.	Title	Year
1	Environmental & Hazardous waste Audit of Deepak Fertilizers	2016-17

## Other Major Projects

Sr No.	Title	Year	Link
1	Promotion of Counter measures against the marine plastic litter in South East Asia and India	2019-20	<a href="https://www.teriin.org/project/rethink-plastic-unep-teri-joint-initiative-mumbai-region">https://www.teriin.org/project/rethink-plastic-unep-teri-joint-initiative-mumbai-region</a>
2	Biodiversity Action Plan for Sindhudurg District of Maharashtra State	2011- 13	<a href="https://www.teriin.org/projects/nutrition-security/files/Biodiversity-Action-Plan-Final-Report.pdf">https://www.teriin.org/projects/nutrition-security/files/Biodiversity-Action-Plan-Final-Report.pdf</a>

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## International Organizations



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