Case Study

Mapping of Coal Fired Power Plants and Cement Plants

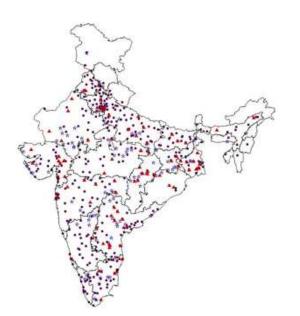**ASTRA Infosys**
514, Jaina Tower II, Janakplace
Janakpuri, New Delhi
India-110058
www.astrainfosys.com
info@astrainfosys.com

Business Need

Infrastructure Leasing & Financial Services Limited (IL&FS) is one of India's leading infrastructure development and finance companies. IL&FS's powers division was interested in making a GIS based study for feasibility of generating power from waste and using fly ash created from this to make cement. To study this they needed a GIS based data model of all power and cement plants and population data of towns more than 100,000. They also needed geographical boundaries and road and rail network data to support the study.
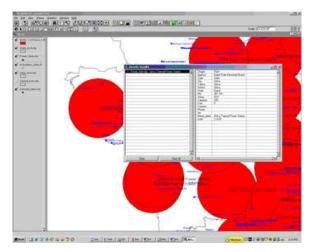
Area Covered

All states of India.

Input Used

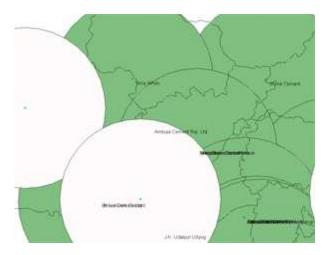|	
Paper Maps:	Paper maps of India to capture political boundaries, roads and rails.
Databases:	Databases of Cement and Power plants in India.

Business Solution

Primary objective of the project was to collect information of all cement plants, coal fired power plants and towns with population of more than 100,000. We also need basis GIS data of India, which were all political boundaries of district and states, road and rail network. In the first phase of project data collection has been done to know number of cement and power plants in India. In second phase all the plants and towns with population more than 100,000 were mapped and combined GIS database was created.

From this study client wanted to study each power plant and cement plants and towns in its 100 KM radius. We helped them to study each power plants and finding cement plants and towns around it. Road and rail network data supported to find route analysis.

Project Deliverables

Complete GIS dataset with layers state boundaries, district boundaries, Cement Plants, Power Plants, roads, railways and towns.