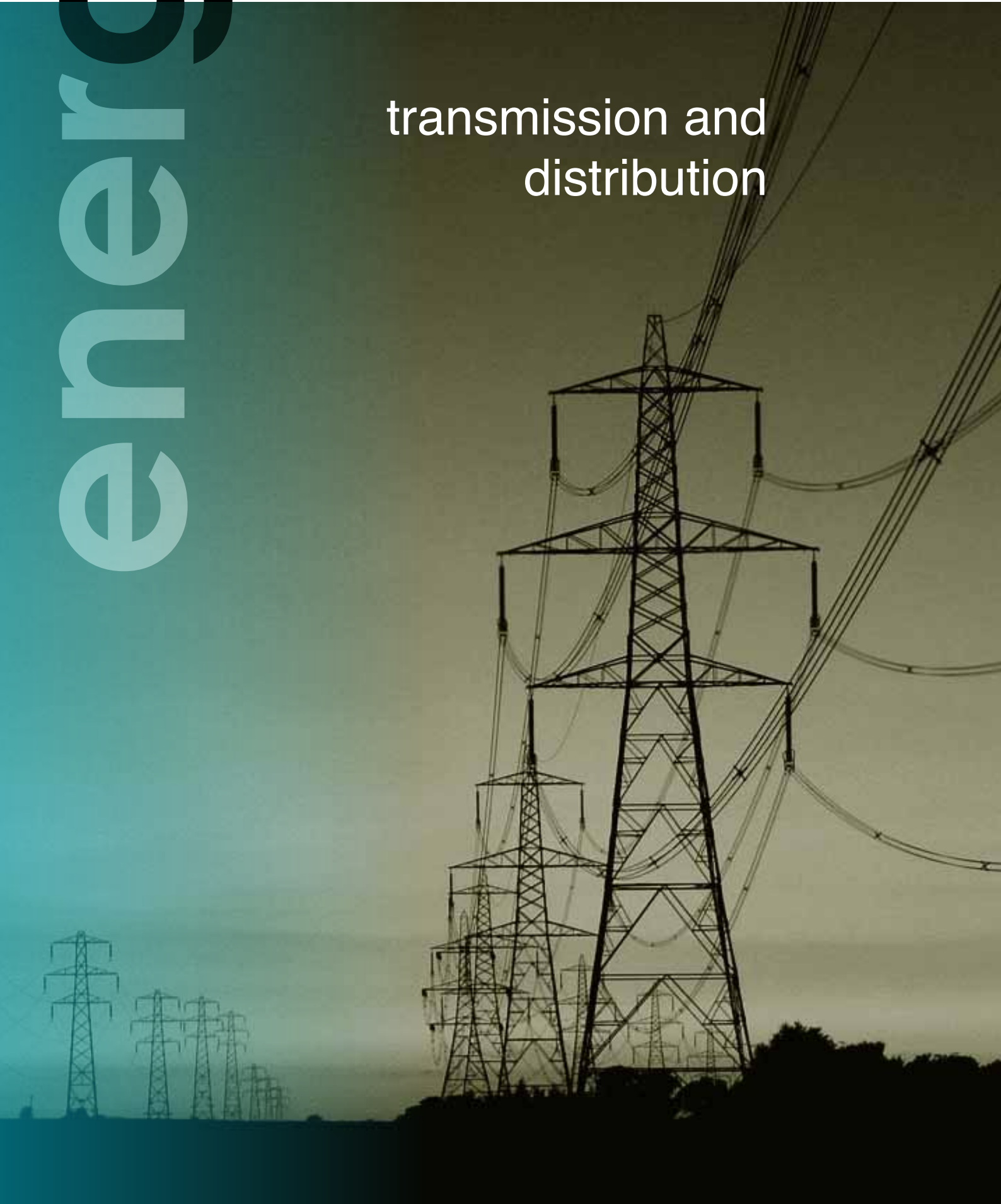


energy



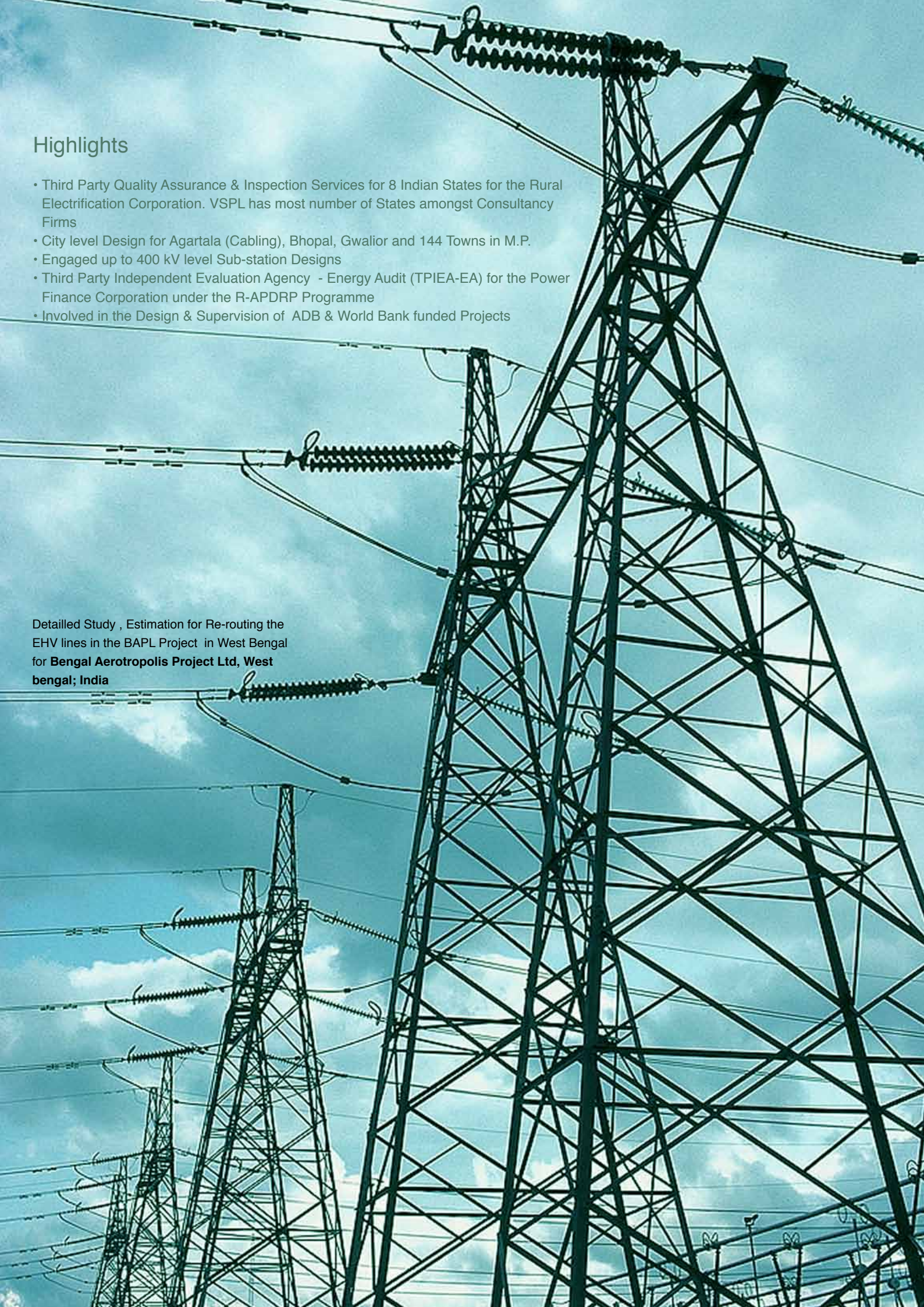
transmission and
distribution



Highlights

- Third Party Quality Assurance & Inspection Services for 8 Indian States for the Rural Electrification Corporation. VSPL has most number of States amongst Consultancy Firms
- City level Design for Agartala (Cabling), Bhopal, Gwalior and 144 Towns in M.P.
- Engaged up to 400 kV level Sub-station Designs
- Third Party Independent Evaluation Agency - Energy Audit (TPIEA-EA) for the Power Finance Corporation under the R-APDRP Programme
- Involved in the Design & Supervision of ADB & World Bank funded Projects

Detailed Study , Estimation for Re-routing the EHV lines in the BAPL Project in West Bengal for **Bengal Aerotropolis Project Ltd, West bengal; India**



VSPL's Engineers are providing energy distribution and transmission solutions to our esteemed clients across India & Africa. The Firm is reducing losses in transmission & distribution networks in India; designing cost-effective and state-of-the-art designs for IT buildings in Ethiopia and planning / designing electrical networks and sub-stations in Gabon, West Africa.

Our Experts are constantly yearning to establish grid reliability, reduce energy consumption, energy efficient systems and emission reduction.

We are currently providing solutions to government, multi-lateral institutions and private sector firms in the efficient development of transmission & distribution projects; hydro power generation; building designs.

Our services range from transmission & distribution system design (overhead & underground); DPR's for loss reduction; third party audits and quality monitoring assignments, enhancing energy efficiency standards that saves megawatts of power for government and private sector clients, thereby meeting today's global energy challenges.

Other key projects in our extensive portfolio include design of substation and distribution lines; detailed electrical vices solutions for industrial parks, townships and SEZ's; detailed engineering & project management services for Solar & Hydro Power Plants.

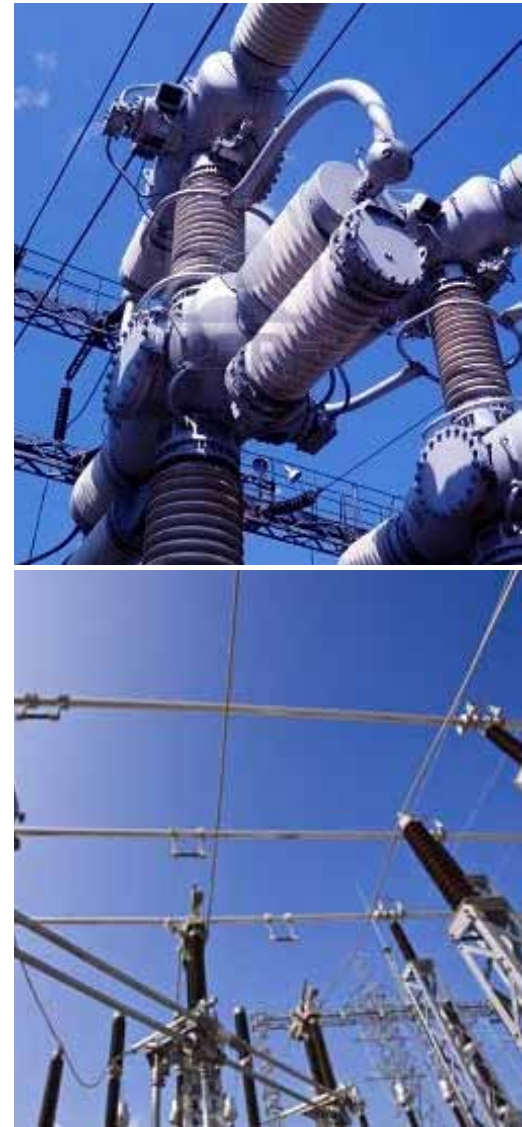
Whether we are designing India's first fully underground power distribution system for Agartala City in Tripura, India, or the preparation of loss reduction detailed project reports for India's first batch of 146 cities and towns, or the first energy auditor appointed by the power finance corporation for Indian states, we have many first's to our credit.

The energy division at VSPL maintains a complementary skill set mix of distribution engineers, transmission engineers, sub-station experts, structural engineers, power generation experts, renewable energy experts (solar, wind, bio-mass and hydro-power), land surveyors, quantity surveyors, geo-technical experts, inspection engineers, economists, financial experts and contracts & legal specialists.

With experts located across the globe, VSPL is in a unique position to quickly deliver services to our clients.

Market Segments

- Power Transmission
- Power Distribution
- Hydro-power
- Wind Energy
- Bio-mass
- Solar Energy



Above:
Basic design, preparation of tender documents for detailed engineering, supply, testing and commissioning of 220 kV MRSS and Relocation of 220 kV DC line for **Mangalore SEZ Limited, Karnataka; India.**

Energy Planning, Environmental Economics

At VSPL, our energy professionals work together around various cities to find innovative and holistic solutions to today's energy challenges. We have assisted clients with energy planning and project preparation, private participation, financial and economic advisory services, land planning, environmental and social studies.

With a strong portfolio of feasibility studies – auditing, strategic energy planning and transmission - distribution projects, we can assemble strong experienced teams to conduct environmental and social impact studies related to any energy project. This wide variety of expertise enables us to develop sound design into a project to achieve lasting beneficial results.

With our breadth and depth of macro energy professionals around the major and minor projects, VSPL can take on any project and its challenges with flare to excel. We also have a background study of project case studies and feasible solutions across a wide variety of socio-economic and environmental conditions:

- Strategic energy planning and management, and project preparation
- Financial and economic studies
- Environmental, biological and social impact assessments and auditing
- Community engagement and research programs
- Resettlement action plans for displaced people
- Carbon management and climate change response services
- Forestry inventories, debris monitoring
- Sustainable water and soil management
- Land and watershed management planning
- Hazardous waste and brown field management
- Licensing and permitting approvals
- Mitigation and compensation programs and monitoring



Above:
Technical support for 400 kV substation construction project at Mirza Assam for Assam Electricity grid Corporation Limited.

Transmission & Distribution

Our professionals have worked with more than 10 power utilities in over 50 cities. Our transmission and distribution team include among the talented engineers, planners and environmental specialists who together provide the full set of competencies required within the electricity supply industry. One of the leading providers of T&D services in India, VSPL has been responsible for providing services for large swathes of network in the country. We have worked with more than 10 power utilities in over 150 Indian cities / towns.

VSPL's specialist capabilities in power development, strategic planning, power systems analysis, power quality, project feasibility development, Pre-Bid Engineering, DPR Preparation/ detailed design, and construction supervision / PMC and Pre Dispatch Inspection for networks of national scale as well as for all system voltages up to 765 kV.

Dedicated to the management of aging infrastructure, we have a strong focus on system reliability through expertise and program development on:

- Energy planning studies
- Financial and economic studies
- Techno-economic feasibility studies
- Alignment Planning
- Network planning
- Environmental and social impact assessments
- Resettlement action plan project affected persons (PAPs)
- Detailed Engineering of Networks
- Detailed Design of Networks
- Sub-station design
- Energy Efficiency (including carbon credits)
- Energy Auditing
- Site Supervision
- Project Management
- Cost Management
- Quantity Surveying
- Third Party Quality Assurance
- Pre-dispatch Inspections Project



Energy Efficiency

VSPL provides sustainable energy solutions that support energy security and independence, and reduce the amount of greenhouse gases. Using the most current technologies, we help our clients develop comprehensive efficiency strategies to reduce energy consumption, develop renewable sources, and improve grid reliability and loss reductions.

During the last 6 years, VSPL has developed, energy efficiency and optimization improvements for government, and private sector clients:

- Verification studies for energy Losses
- Verification studies for energy sales/ Supply side energy analysis
- Energy efficient major renovation and new construction
- Supply side energy analysis
- Energy master planning
- LEED certification process management—new construction and retrofit
- Billing & Collection Efficiency
- Sustainability consulting
- Strategic environmental management
- Cogeneration, distributed generation and renewable energy projects
- Facility improvement and optimization projects





Hydropower

We provide expertise solutions in hydropower, dams and reservoirs, site relicensing, dam safety and flood control.

We consistently deliver technical solutions to our hydropower clients through a collaborative and open work style where we understand client and project requirements. In addition to our knowledge and experience, we incorporate sustainability and safety principles in every project. VSPL also provides Pre- Feasibility Study services to hydropower clients -feasibility studies relating to the potential for more than 20 hydropower plant locations in Gabon, West Africa. We are presently working on plants ranging in size for mini & micro hydro plants in the following disciplines.

- Hydrological & hydraulic investigations
- Hydraulic modeling
- Topographical and geotechnical investigations
- Detailed Engineering & Design
- River basin studies
- Sustainable water resource planning
- Structural design
- EIA & SIA studies



Environmental Studies

At VSPL, our environmental & energy professionals work together towards reinvestigating the entire gamut of innovative and holistic solutions for today's and future environmental challenges. We have assisted clients with environmental and social studies. With a strong portfolio of energy, Biomass, hydroelectric, SEZ, waste Management projects, we have strong experienced teams to conduct environmental and social impact studies related to any energy project. This wide variety of expertise enables us to develop sound design based solutions for any project to achieve lasting beneficial results.

With our extensive and comprehensive knowledge base on the macro scenario, VSPL can take up any project with its confrontations. We have extensive knowledge base of projects and studies on pan india basis to cater to wide variety of socio-economic and environmental conditions:

- Baseline Monitoring
- Environmental, biological and social impact assessments

Selective Assignments

- *Development of Infrastructure and Preparing Detailed Project Report with the aim of reducing AT&C losses in 32 towns covered in APDRP Scheme Part B along with evaluation of bids received against capital work to be executed as per DPR*
- *Development of Infrastructure and Preparing Detailed Project Report with the aim of reducing AT&C losses in 114 towns not covered in RAPDRP Scheme*
- *TRIEA-EA under R-APDRP for Rajasthan*
- *Quality Assurance, Inspection & Monitoring at Gurgaon, Faridabad and Dadri (DHBVN)*
- *Rural Electrification Corporation Limited Quality monitors in the 8 States of India- Andhra Pradesh, Maharashtra, Gujarat, West Bengal, Tamil Nadu, Rajasthan, Madhya Pradesh, Haryana*
- *Associate for third party quality inspection, monitoring & supervision of Feeder Renovation Programme (FRP) works of Ajmer Vidyut Vitran Nigam Limited (AVVNL)*
- *Detailed Project Report (DPR) for Development of Sub-transmission & Distribution Network in Agartala Municipal Council area by Laying Under Ground Cable / Aerial Bunched Conductor for 33 KV & 11 kV Systems*
- *Technical Support for 400 kV Substation Construction Project at Mirza*
- *Consultant for Study of the Power Requirements of Bailadila Complex including preparation of specifications and related works for construction of 33 KV substation at Kirandul Complex, Hill Top, Kailash Nagar*
- *Design, preparation of tender documents for detailed Engg, Survey, testing and commissioning of 220 kV MRSS and Relocation of 220 kV DC line as given in the scope of work*
- *Development of Rajiv Gandhi Education City Sonapat, "Consultancy for Prov. Installation Services in U/G system including Drawing etc. all other works contingent thereto"*
- *DPRs of 18 no. towns (Package No. 3 & 4) against Tender Specification No. 03CE/RE&APDRP/2010-11*
- *Detailed Project Report for separation of Domestic & Irrigation Supply in 16 Districts i.e. in 1560 feeders of 15006 villages, presentation for approval from concerned financial institution and evaluation of bids received against tender issued for execution of various works against approved DPR*
- *Third Party Inspection for Material Procured for IPIU, UUSDIP, Dehradun, Uttarakhand*
- *Physical Verification of 58 RGGVY Projects in UP*
- *Third party quality inspection, monitoring & supervision of Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) works of Bangalore Electricity Supply Co. Ltd. (BESCOM) for Package No. II (Tumkur District)*
- *Estimation of Transmission Lines Rerouting Cost for the Aerotropolis Project*
- *Detail design and engineering for M/s. Abhijeet Infrastructure Group*

About VSPL

VSPL is a global provider of professional, technical and management support services to a broad range of sectors / businesses including transportation, facilities, environmental, energy, water / sanitation, waste management, industrial infrastructure and large townships. VSPL's client list includes Fortune 500 companies, blue-chip corporations, multi-lateral funding agencies, prestigious government agencies and key lending institutions. VSPL provides a blend of global reach, local knowledge, innovation, and collaborative technical excellence in delivering solutions that enhance and sustain the world's built, natural, and social environments.

VSPL an ISO 9001:2008 company serves clients in more than 200 cities across the globe with 400 highly experienced engineers.

clientele:

- RURAL ELECTRIFICATION CORPORATION LTD.
- POWER FINANCE CORPORATION
- ASSAM ELECTRICITY GRID CORPORATION LIMITED.
- NMDC LIMITED
- TRIPURA STATE ELECTRICITY CORPORATION LIMITED
- M.P. MADHYA KSHETRA VIDYUT VITRAN CO. LTD.(A WHOLLY OWNED GOVERNMENT OF MADHYA PRADESH UNDERTAKING)
- UTTARAKHAND URBAN SECTOR DEVELOPMENT INVESTMENT PROGRAM REC – POWER DISTRIBUTION COMPANY LIMITED
- DAKSHIN HARYANA BIJLI VITRAN NIGAM
- ANDHRA PRADESH INFRASTRUCTURE INDUSTRIAL CORPORATION (APIIC)
- IL & FS CDI
- MANGALORE SEZ LIMITED
- ELDECO INFRASTRUCTURE & PROJECTS LIMITED, NEW DELHI
- MAHINDRA GROUP
- BENGAL AEROTROPOLIS PROJECT LTD.
- H.S.I.I.D.C., GURGAON
- H.U.D.A (HARYANA URBAN DEVELOPMENT AUTHORITY)
- INDIAN FOUNDRY ASSOCIATION (IFA) AND IL & FS
- ONGC, IL & FS, & KSIDC
- MDDA - RAMKY - ISBT LTD.
- MANI- SQUARE GROUP, KOLKATA
- CENTAUR MERCHANTILE PVT. LTD.
- KANAKIA SPACE, MUMBAI



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35 Site offices in following states of India (Uttarakhand, Madhya Pradesh, Haryana, Bihar, West Bengal, Maharashtra, Punjab, Rajasthan, Chhattisgarh, Karnataka, Tamil Nadu, Uttar Pradesh, Gujarat, Andhra Pradesh, Assam)

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