

Sustainable Water Resources Management Services



Mainstay offers a wide range of water resources and sustainability services for water-intensive core industry and business sector:

Water is ultimately a finite resource. With all finite resources, there is a continuous need for sustainable and equitable management, by capping demand, improving efficiencies in supply and developing substitutes. This exercise is complicated by the sociocultural beliefs, values, and affinities around this precious resource. The Planning Commission of India repeatedly warns that water will become a more serious issue than land or energy for India in the next few years to come. Furthermore, India is witnessing a steady rise in population and crunch in natural resources clubbed with access to livelihood assets never before.

On the contrary, meager policy instruments and inadequate institutional capacities and lack of appropriate machinery in place have very limited receptive to address/ensure sustainability of its resources. Such, issues may hamper business goals and growth potentials in long-run, unless strategically aligned. Therefore, it becomes inevitable for business houses to assess and evaluate their source water vulnerabilities from above perspective to mitigate from such vulnerabilities through having effective sustainable source protection and water resources management in place to ensure business continuity to support growth.

At Mainstay, we help you integrate and manage;

- Source water vulnerability assessments (Watershed & Community based) – leading to Sustainable Source water protection and mitigation
- Process water management – improve efficiency, 3R's (process based) for sustainable Water Neutrality
- Source water sustainability (Watershed& Community based) to achieve Sustainable Positive Water Balance
- Waste Water & Discharge Management -Sustainable Ensure zero dis charge
- Stakeholder engagement -Strategize CSR - Social Risk Management for Sustainable Community

Key expertise

Mainstay works with, Natural Resources Management and hydro-geologists, environmental, Social, GIS and IT experts in developing statistical and hydrological modeling, flood and spatial analysis, geomorphology, soils surveying and mapping. Mainstay approach is to seek integration of sustainability in aligning Social Risk Management, Bio-diversity and Ecological harmony.

Water Resources Management Services

- River System and basin Operations Modeling
- Groundwater Modeling
- Surface Runoff and Drainage Analysis
- Water Supply
- Water Resource Management & sustainability
 - Water Conservation and Drought Planning
 - Regulatory Impact Evaluation
 - Water conservation and drought mitigation planning
 - Irrigation water management
 - Water rights analysis

Industrial Water Solutions

- Water resource planning and design
- Watershed Management and Planning
- Water Audit
- Water and sanitation
- Wastewater Management
- Source vulnerability assessments and source water protection plan
- Storm water management
- Preventive Maintenance

Institutional water consultancy Services

- Restoration of water bodies
- Surface water hydrology and stream flow measurement
- Water rights historic use and yield analysis
- Evaluation of water supply and demand
- Hydrologic statistic and risk analysis
- Surface runoff and drainage analysis
- Analytical and spatial groundwater modeling
- Community-based water infrastructure services
- Institutional development

Conclusion: Mainstay Development Consultants houses diverse expertise and skills to meet and align with clients specific needs and challenges to meet with an adequate quality solution.

For further information on the subject please contact us.