



Unleashing Water Potential



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Livnat engineering design water supply systems in Israel and across the world for more than 20 years. We supply water to all consumers: households, agriculture, and industry. Our integrated design ensures supply of quality water to remote desert communities as well as the large cities and to the high-precipitation areas. Reliable Water Solutions: Ensuring Quality Every Hour, Every Day, Rain or Shine.

Livnat Engineering: Pioneering Global Excellence in Water Solutions from Design, Production to Quality Control. Our leadership spans the entire water value chain, bolstered by a comprehensive understanding of digital innovation. This holistic approach not only enhances our operations but also ensures a seamless and efficient response to the world's water demand, whenever

Facing Every Challenge, Embracing One Solution

For over two decades, Livnat Engineering has been addressing Israel's and the world critical water challenges. Situated in a region defined by water scarcity, our expertise has been pivotal in overcoming obstacles posed by population growth, increasing standards of living, and a scarcity of natural water sources amidst arid climates and geopolitical complexities. Today, with the added pressure of escalating climate change and prolonged droughts, our resolve to innovate and deliver sustainable water solutions has never been stronger.

From concept to execution, we guide our clients towards success, ensuring that every project receives the attention and expertise it deserves. Trust Livnat Engineering to navigate the complexities of global water initiatives, delivering sustainable solutions that make a difference worldwide.

Livnat engineering's fields of operation

Desalination - Across the globe, Livnat Engineering is synonymous with innovation and excellence in desalination design. Our expert team not only pioneer's cutting-edge solutions but also provides unparalleled support throughout the technical bidding process.

Optimization of Water resource management - At Livnat Engineering, we're committed to revolutionizing how surface and groundwater resources are utilized and managed sustainably. Through our analysis of present and projected water balances, we uncover vital insights into demand and supply requirements.

Armed with this knowledge, we initiate transformative solutions across organizational, legal, economic, and decision-making processes within the water sector. Our holistic approach ensures that every aspect of water resource management is optimized for sustainability and long-term success.

Join us in shaping a future where water resources are not just managed, but thriving, driving positive change for communities worldwide

Water recycling - At Livnat Engineering, we're implementing smart and sustainable circular economy solutions. Our innovative approach seamlessly integrates household and agricultural water needs, maximizing efficiency and minimizing waste.

Through our design of sewage treatment and water reuse facilities, we're revolutionizing water management. By recycling household water for agricultural use, we're not only conserving precious resources but also expanding opportunities for the agriculture sector.

High-water reuse rate not only supports agricultural growth but also ensures more potable water is available for households.

Aquifers - Livnat engineering design and executed plans to produce water from aquifer and treat it to potable and agricultural quality. With expertise in aquifer management and operations, as well as dealing with salination and contamination.

Floodwater - Livnat engineering has developed innovative water capture facilities in different regions. At a time of extreme climate change, deployment of the company's technologies and infrastructures to utilize major precipitation events through water storage and channeling it to advanced agriculture, including in arid regions.

Water quality and security - Livnat engineering design integrated water quality monitoring, biological and technological monitoring systems, including innovative fiber optic sensors and autonomous drones.

Engineering and infrastructure solutions - Livnat engineering uses innovative electromechanical solutions to manage the design and manage national-strategic infrastructure plants while optimally dealing with high complex geographical, topographical, and geological conditions.

Operational planning - Livnat engineering has created mathematical models and control systems (SCADA) to streamline water sector planning and operations, which are used for big data management, analytics, and machine learning with the objective of constantly improving water sources operations.



From a water shortage to economic growth

Embracing the urgency of the climate crisis, we recognize the pressing need to safeguard our most precious resource: water. At Livnat Engineering, we've honed our expertise in confronting water scarcity head-on. Through a dedication to pioneering research and development, we're crafting innovative water solutions tailored to diverse environmental challenges.

Our proven track record speaks volumes, showcasing our commitment to optimizing water management practices. By investing in cutting-edge technologies and conducting rigorous feasibility studies, we're not just addressing the water crisis – we're transforming it into an opportunity for economic prosperity.

Join us in our mission to turn the tide on water scarcity and pave the way for a sustainable future.

Livnat engineering's Services

Development of Surface Water and Groundwater Sources

- National and regional water Master plans
- Integrated development and management of water resources
- Hydrological/hydrogeological studies and artificial recharge
- River basin studies

Operations & Maintenance (O&M)

- O&M of water and wastewater facilities
- Inspection of water & wastewater systems
- Rehabilitation of water & wastewater systems

Planning & consultancy

- Regional and nationwide master planning
- State water policies and management tools
- Water tariff
- Prefeasibility and feasibility studies
- Economic and financial analysis
- Statutory planning

Elevating Global Standards

At Livnat Engineering, we pride ourselves on offering a comprehensive suite of professional services designed to share our wealth of knowledge and experience with partners worldwide. Our tailored solutions cater to governments, water authorities, and industry leaders, encompassing:

- Development of national and regional water sector master plans
- Planning and operational services for desalination, sewage, and water purification facilities
- Specialized services in water treatment, sewage treatment, wastewater reuse, hydrology, drilling, and operational maintenance engineering
- Cutting-edge solutions for fully automated command and control of water networks
- Robust cybersecurity measures to safeguard critical information infrastructure

Partner with Livnat Engineering and unlock the full potential of your water management initiatives. Together, let's pave the way for a sustainable and resilient future.

We invite you to cooperate with us in realizing the potential of the water resource for growth and prosperity.

Design

- General, preliminary & detailed design (DPR)
- Advanced modelling & simulation (water systems operation)
- Preparation of tender documents
- Assistance in the tendering process

Water Supply

- Regional and national water supply grid
- Supervisory control & data acquisition systems
- Study of losses in water supply and wastewater systems (NRW)
- Analysis and installation of control systems for system optimization and operation
- Rehabilitation of urban and rural water supply systems
- Reservoirs and hydraulic structures



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