



Bringing Wastewater Back to Life

Energy saving wastewater solutions



Tailormade Solutions to Meet Customer Requirements

Mapal provides wastewater treatment plants with a total service—from conducting feasibility studies through design, installation, and ongoing maintenance.

- Feasibility studies
- Design, supply, and construction
- Commissioning and startup
- O&M contracts

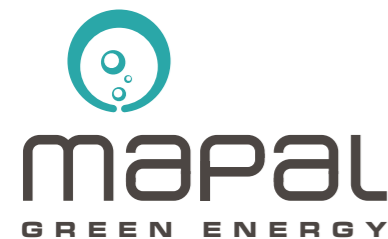
Mapal Green Energy Ltd. develops and provide innovative floating fine-bubble aeration systems. Located in northern Israel, the company undertakes turnkey projects for customers worldwide. Mapal has extensively tested its patent-pending systems in wastewater plants in Israel—meeting stringent water quality parameters including BOD5, TSS, and COD, achieving major cost savings, and delivering proven performance.

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Save Energy with Mapal's Floating Fine-Bubble Aeration System

Save up to 70% on operational and maintenance costs

- Suitable for municipal and industrial wastewater plants
- Easy and simple installation
- No need to stop the treatment process or drain the biological reactor





Energy-efficient Wastewater Aeration Systems

Mapal's CNM, a floating fine-bubble aeration system, can be installed in wastewater treatment lagoons and in biological reactors of large municipal wastewater treatment plants. The innovative, cost-effective system reduces the operational and maintenance costs of wastewater plants equipped with fixed or floating mechanical surface aerators by up to 70%.

Unique Floating Fine-Bubble Diffusers

Mapal's floating fine-bubble aeration system can be installed in biological reactors, ponds, and lagoons—there's no need for a flat surface or concrete basin. The fine-bubble membrane diffusers are designed to reach the lowest possible point in the basin to maximize bubble contact and enable efficient oxygen transfer. Air is supplied through floating hoses driven by offshore blowers. Each aerator is secured with polypropylene ropes for easy installation and maintenance.

Easy Installation

- Installed during treatment process
- Automatically adjusts to water level
- leveled from the water surface

Simple and Safe

- No moving parts in the water
- No damage to HDPE lining

Complete Design and Construction of Low Budget Municipal Wastewater Treatment Plants

Install Mapal's CNM floating fine-bubble aeration system and benefit from low operational and maintenance costs.

- No electro mechanical equipment submerged
- Simple process control
- Treated wastewater can be reused for irrigation

Suitable for rural and small communities, the modular system utilizes aerators which treat up to 15,000 m³ per day.



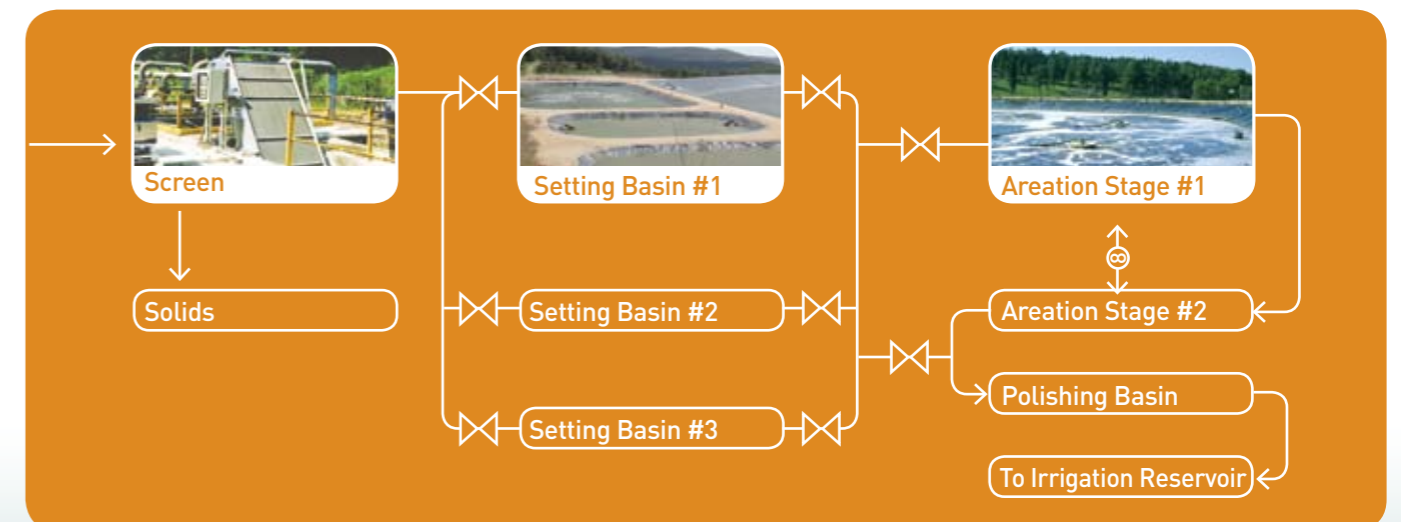
Upgrade Existing Municipal and Industrial Wastewater Treatment Plants

Replace existing floating or fixed surface aerators with Mapal's floating fine-bubble aeration systems and reduce operation and maintenance costs by up to 70%. There's no need to drain the biological reactor or interrupt the treatment process.

- Offers easy maintenance
- Reduces electrical consumption
- Operates at very low temperatures



WWTP Flow Chart



Gravity flow from bar screen to polishing basin - no pumps and no maintenance.



Reduce operational and maintenance costs by up to 70%.

Efficient blower frequency control system (VFD) saves energy.