



STATE OF ISRAEL  
Ministry of Industry  
Trade and Labor  
Foreign Trade Administration  
Investment Promotion Center



*The Israel Export & International Cooperation Institute*

# Israel Business delegation Environmental Technologies 27.5.2010 Cyprus



Government of Israel  
Embassy of Israel to Cyprus



CYPRUS  
CHAMBER OF  
COMMERCE AND  
INDUSTRY





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## The Israel Export & International Cooperation Institute

The Israel Export & International Cooperation Institute, founded in 1958, is supported by over 2,600 member firms, private sector bodies, and the Israeli government. The Israel Export & International Cooperation Institute promotes business relationships between Israeli exporters and overseas businesses and organisations.

### Water & Environmental Technologies Department

The IEICI's Water & Environmental Technologies Department has an intimate acquaintance with the Israeli Water, Renewable Energy & Environmental industry exporters, which includes more than 400 companies, and about 100 start-ups. It has a proven ability to identify and match suitable potential business partners, organising one-on-one business meetings and is a focal point for contacts with the government as well as with the industry. By providing a wide range of export-oriented services to Israeli companies, and complementary services to the international business community, the institute helps to build successful joint ventures, strategic alliances, and trade partnerships.

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## Embassy of Israel, Cyprus

The Commercial Office of the embassy of Israel in Nicosia focuses on a wide range of activities and services that promote trade between Israel and Cyprus. Its main activities include:

- Assistance to the Cypriot and Israeli business community by providing relevant contacts and other information.
- The promotion of business and trade with Israel by advising Cypriot companies as well as professional organizations/associations of commercial opportunities in Israel.
- The publication of a monthly electronic newsletter entitled "Business Opportunities & News from Israel". Its main aim is the enhancement of economic ties between Cyprus and Israel. It includes information on potential business opportunities, innovations and new products, business news, exhibitions and other material that may be of interest to Cypriot companies. Currently, the electronic newsletter is sent out to 1,500 e-mail addresses. A similar electronic newsletter catering for the needs of Israeli companies was inaugurated in 2004 with useful, commercial information on Cyprus.
- Regularly informing and encouraging interested parties to attend exhibitions and other commercial events.
- All aspects of assistance to trade delegations.
- Providing information on tenders of potential interest to Israeli companies.

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# One goal – Wide partnership

**The national program is led by:**

Ministry of Industry, Trade and Labor Foreign Trade Administration – Investment Promotion Center, Ministry of National Infrastructure

### Members:

The Israel Export & International Cooperation Institute | Prime Minister's Office | Ministry of Finance | Ministry of Foreign Affairs | Ministry of National Infrastructure | Ministry of Environmental Protection | Ministry of Science Culture & Sport | Ministry of Agriculture | Ministry of Negev and Galilee | Public Utility Authority–Electricity | Council for Higher Education

Ministry of Industry, Trade and Labor: Office of The Chief Scientist | The Israel Standards Institute | Industrial Cooperation Authority | ASHRA – The Israel Export Insurance Corp. Ltd. | Economic Planning Administration | Knowledge-Intensive Industry Administration | Manpower Training and Development Bureau



- **Category:** Consulting and engineering services, Industrial waste treatment, Solid waste treatment and Recycling, Waste water treatment.
- **Web site:** [www.wetlands.co.il](http://www.wetlands.co.il)

## Company profile

AA Engineers is a consulting firm dealing with wastewater treatment, solids waste system, agricultural and environmental consulting.

In the wastewater subject we specialize on environmentally friendly treatment system called Constructed Wetlands based on wastewater flow through granulated media on which macrophyte plants grow and contribute to the treatment. We are involved in local as well as in international projects.

**Constructed Wetlands** do not involve any electro mechanical energy nor chemicals and/or mechanical maintenance and are applied as ecological solutions for sanitary wastewater, industrial and agricultural wastewaters.

**Date of establishment:** 1982

**No. of employees:** 5

## Examples of past projects

- Constructed Wetlands as green wastewater treatment for community and agricultural villages in different sizes.
- Reclamation of old dump landfills.
- Recycling of solid waste projects.
- Transfer Stations for solid wastes.

## Technology & product(s)

- In the wastewater subject we specialize on environmentally friendly treatment system called Constructed Wetlands being very popular in these days when green solutions are favorable.
- Constructed Wetlands do not involve any electro mechanical energy nor chemicals and/or mechanical maintenance and are applied as ecological solutions for sanitary wastewater, industrial and agricultural wastewaters.
- In the Solid Wastes we design the reclamation of old dump landfill to coincide with the updated regulations by the authorities, design transfer stations, Landfill gas pumping and using as energy source.
- Composting of agricultural waste mainly manure and other biomasses.

## Objectives / Target companies

We are looking for companies interested to cooperate and construct wastewater systems based on Constructed Wetlands. This can be in the planning and design as well as the construction phase. In the Solid waste area we can supply planning and design services as well as other services and activities as defined by the client.



Water Control Solutions

- **Category:** Water Resources Management, Control Systems, Waste Water Treatment
- **Sub category:** Control Valves, Control Systems, Control Solutions
- **Web site:** [www.bermad.com](http://www.bermad.com)

### Company profile

BERMAD designs, develops, manufactures and markets state-of-the-art control valves and related products, along with comprehensive system solutions for a range of water management needs for the Irrigation, Turf, Fire Protection and Waterworks segments.

**Date of establishment:** 1965

**No. of employees:** 350 Worldwide

### Background on the company

All of the company's products are original products, designed by a team of engineers in accordance with the needs of the market. BERMAD is a world leader in its field and maintains a global presence on each continent and in most countries.

### Examples of past projects

Among the many projects that BERMAD has implemented:

- Fire Protection System, Euro Tunnel
- Potable Water System, Jerusalem Municipality, Israel
- A 320 km water supply pipeline, Lago Musters, Argentina
- Potable Water Systems, in collaboration with water companies in London, Manchester, Birmingham, U.K.
- Fire Protection System for the Trans-Europe gas delivery system "Troll"
- Water Carrier for Irrigation, Jujuy, Argentina
- Almond Trees, Buried Irrigation Application, USA Nut Tree Farming
- Irrigation of new plantation from the flood of the Three Gorges Dam- Yangtze River, China
- Controlling 10,000 private farmers pumping from the same aquifer by 927 Hydrometers, Aquifer 23 & 24, Spain

### Technology & product(s)

#### General description:

BERMAD continues to develop, manufacture and market a wide range of fluid control management products that are sought, sold and serviced in nearly every country and every language. Some of these products include:

- WW-700 and 400 Series- Hydraulic, diaphragm and piston actuated control valves for multi-purpose applications.
- 900 Series- Hydrometers- Combined control valve and water meter- for irrigation applications and municipal water control systems.
- 100 Series- Plastic valves series
- 400E and 700E Series- Deluge valves for fire protection applications
- Bulk and domestic water meters
- Solenoid operated plastic valves for all kinds of irrigation and water treatment applications

#### Function of the product(s):

BERMAD products are employed for most water and fluid supply control needs such as:

- Automatic control valves from 1" to 36", and pressure ratings up to 40 bar (600psi)
- Pressure-reducing valves
- Reservoir and level valves
- Flow and level control
- Surge prevention valves
- Pump protection valves
- Automatic metering valves and Hydrometers (combination of water meter and valve in one body)
- Solenoid pilot valves
- Air valves

### Objectives / Target companies

Municipalities, Distributors, Contractors



- **Category:** Drinking Water, Industrial Waste Treatment, Waste Water Treatment, Consulting And Engineering Services.

### Company profile

Focused on clean water Bluvstein – Binot Topaz specializes in providing water and waste water treatment systems for industrial and municipal applications. The systems are tailor made and based on high technology for efficiency, effectiveness, and reliability. Our issue is to customize systems to meet specific needs, serving customers by providing accurate systems which are also easy to use and have low operation costs.

The company provides customized solutions for different industries and municipalities including potable water and waste treatment water.

**Year of establishment:** September 1972

**No. of employees:** 100

### Background on the company

Founded in 1972, Bluvstein Binot Topaz is a private company with 100 employees, hold by the engineers Dorit and Yossi Bluvstein and focused on clean water in providing waste treatment systems for municipalities and industry applications.

In 1996 the company was mentioned in the exclusive book "Persons and activities in the North of Israel".

In 1997 the company has received the "award of the year in Economics " by the Public Opinion Poll Institute.

In 2008, in honor of 60 year of Israel Independence, the company has received the "Israel Award" dedicated by the Israeli Industry Association.

### Examples of past projects

- RUSSIA 2006 – Pumping Station with pressure and frequency control.  
Capacity: 200 meter cube/hr
- RUSSIA 2007 – municipality project – filtration of iron from water.  
Capacity: 250 meter cube/hr
- MOLDAVIA 2008 – Pumping Station with pressure control and frequency control and filtration System Capacity: 400 meter cube/hr

### Technology & product(s)

**General description:** a factory with a high technology combining robot welding, laser and water jet cutting, treatment before painting and painting permitting longevity life of the products. The factory also produces for the best companies in israel.

Present in Bulgaria, Moldova, Romania, Russia (Rostov)

Possible B.O.T. Projects

**Function of the product(s):** water treatment systems for municipalities and industry.

### Objectives / Target companies

- Reaching End users – various industries such beverage, textile, power station, pharmaceutical and hospitals.
- Reaching Municipal headquarters and managers.
- Reaching water supply companies.



- **Category:** Energy – power plants, power distribution, Renewable / recovered energy. Civil – high rise @ complex buildings. Industrial large scale plants
- **Web site:** [www.brand-industrie.com](http://www.brand-industrie.com)

## Company profile

Brand is leading international steel fabricator involved in the production and assembly of large-scale steel projects, for the energy, chemical, infrastructures, and construction industries.

**Date of establishment:** 1978

**No. of employees:** 165

## Background on the company

Constant contact with the front line of the world's metal industry created in the company a permanent process of assimilation of the world's technological innovations, making them a part of it at all levels of planning and implementation. The company's quality control system is ISO 9001:2000 certified. We are also certified for the manufacture and assembly of pressure vessel and boiler as per ASME (S, U & U2 Stamp) and steel structures as per DIN 18800-7 Class D.

## Examples of past projects

Possum Point Power Plant – USA, Castellon Power Plant – Spain – DSW Plant – Israel – Aalborg Denmark, Knapsack Power Plant – Germany – CMI EPTI, Pego Power Plant – Portugal – NEM (2 HRSG), MAGNUM Power Plant – The

Netherlands – NEM, T-POWER Power Plant – Belgium – NEM, Fab. 28 – Intel – Client: M+W

Zander – Steel Construction, fabrication & erection of approx. 7,000 Tons. Dead Sea Magnesium

Enterprise – fabrication & erection of constructions, bridges and conveyor – 17,000 Tons. Bahia Las

Minas Panama – ANSALDO CALDAIE Italy – Steel Structure – 1,200 Tons.

## Technology & product(s)

Brand utilizes the most modern and advanced capabilities for steel fabrication, including CNC systems and machinery for drilling, punching, bending, rolling, cutting and more.

Brand's various products include: HRSG elements for combined cycle power plants, including boiler casing (with insulation), stacks, ducting, piping etc'. FGD – Flue Gas Desulphurization System. Multipurpose storage tanks, pressure vessels, refinery towers for the oil and gas industry.

Multi-Storey buildings, high rises, major infrastructure buildings.

Equipment systems for the chemical, petrochemical, energy and concrete industries: Screw conveyors, Evaporators, Sieves, Stacks, and Ducts, Crystallizers, and Silos, Large regulation, gate valves, Heat Exchangers, Grinders, Floatation chambers, Thickeners, Conveyor belts and bucket conveyors.

High Voltage Transmission Towers of various types.

Bridges @ Gantry's

## Objectives / Target companies

Distributors & agents, International Sales persons, EPC companies, energy projects, joint ventures.



- **Category:** HVAC Cooling towers water & energy saving in industry and commercial, Renewable energy, Energy efficient.
- **Web site:** [www.cqm-tech.com](http://www.cqm-tech.com)

### Company profile

CQM a Cleantech Company develops and markets innovative anti-fouling and energy efficiency solutions that keep industrial systems clean and continuously efficient. Its anti-fouling systems allow customers to achieve increased operational outputs, reduced O&M costs, maximum efficiency and overall performance.

**Year of establishment:** 1996

**No. of employees:** 30

### Background on the company

CQM, has developed a breakthrough product for the CLEANTECH sector by promoting energy efficiency and environmentally sound solutions to fouling, one of industry's oldest and most pervasive problems. Since 1996, CQM has been selling its patented **Automatic Tube Cleaning Systems (ATCS)** for heat exchangers and condensers providing:

- more efficient operation
- substantial energy savings
- reduced shutdowns and maintenance costs
- minimal need for chemicals

The market for our products is vast, with our targets including:

- **Facilities:** Up to 50% on water saving and 100% on chemical saving for office buildings, shopping malls, hospitals, hotels, etc. by increasing the efficiency of their central HVAC and industrial cooling systems.
- **Power Plants:** Up to 3% increase in annual electrical power generation of steam and combined-cycle power plants.
- **Industry:** Increased efficiency and reduced maintenance cost for petrochemical, refineries, pharmaceuticals, food and many others.

With ten years of consistent sales and installations in over 3,000 facilities worldwide, we have a proven track record in the here and now. This is not an untested or regulatory-dependent product; it is already in demand, in use and effectively curbing greenhouse gas emissions by optimizing energy consumption.

### Technology & product(s)

- ATCS – Patented Heat Exchanger Automatic Tube Cleaning System.
- SRCL– chlorination on site by electrolysis for remote drinking water site and sanitation of hot water systems in hospitals.
- SRS – Chemical Free Water Treatment System for industrial close and open water cycles: cooling towers, cooling and heating loops, etc.

### Objectives / Target companies

Energy efficiency solutions, water treatment, power plant.



- **Category:** Municipal and Industrial wastewater treatment
- **Sub category:** Consulting and engineering services, Drinking water, Waste water treatment
- **Web site:** [www.mapal-ge.com](http://www.mapal-ge.com)

## Company profile

Mapal Green Energy Ltd, based in Nesher in northern Israel, offers proven and unique innovative technology that provides an overall simplified wastewater treatment process. Replacing fixed or floating mechanical surface aerators with Mapal's floating fine bubble aeration system results in reduction of 70%-80% of the operational and maintenance cost of municipal and industrial wastewater treatment plants. The system is a fine bubble floating aeration system designed to combine the unequivocal efficiency of fine bubble diffusion with a straightforward smart technology. Mapal's CNM aeration system is an internationally patented technology.

**Date of establishment:** 2008

**No. of employees:** 6

## Background on the company

Mapal, as a know-how company, is a technology provider with process engineering design capabilities. Mapal provides a complete process design and technical support services, including:

- Feasibility studies
- Design, Supply, Construction
- Commissioning and Start up
- O&M contracts.

## Examples of past projects

Our technology is successfully installed in more than 10 WWTPs in Israel, with total daily flow ranging between 0.01Mgd and 8Mgd, handling domestic, industrial and livestock wastewater. Implementation of our technology has been demonstrated to significantly reduce operation cost of existing plants, as well as capital investment in newly built WWTPs designed by Mapal.

Functional projects in Israel: Yagur, Hanaton, Zarzir, Magen Shaul, Ma'ale Eron, Galed, Baram, Gonen, Gvar-am, Naot, Dalton, Yavne, Ramot Menashe.

## Technology & product(s)

**General description:** Mapal's aeration system can be easily installed in any biological reactor and it is an ideal, cost effective solution for low budget municipal wastewater treatment plants thanks to its excellent ROI. The technology eliminates the need to deliver electrical power to the floating unit, and enables to easily adjust the power according to ambient conditions. The units automatically adjust themselves to the water depth resolving the leveling problem by the fact that the units are floating on the water. Custom manufactured tubular membrane diffusers are installed in each unit and are designed to generate air bubbles that reach the bottom of the lagoon for optimal oxygen transfer.

- Significant energy saving.
- Simplicity and safety. Low O&M costs.
- No electrical / moving mechanical parts in the water.
- Safe to the HDPE lining.
- Tailor made solution in order to meet the customer's requirements.
- Easy and simple installation (No need to stop the operation or to drain the biological reactors).
- Suitable for hazardous and aggressive waste water.
- Suitable for excavated or concrete lagoons.

**Implementation:** Mapal CNM system is suitable for three main applications:

1. Implementation of fine bubble aeration in newly built small to medium size municipal and industrial biological reactor lagoons.
2. Replacement of existing submerged fine bubble aeration system (diffusers) when it is not practical to empty the reactor and remove the diffusers.
3. Upgrading existing medium to large (municipal / industrial) plants with concrete basin biological reactors that are equipped with fixed surface aerators, by replacing them with Mapal CNM fine bubble aeration system. No need to drain the reactors, no damage to the biomass, and no interruption to the process.

## Objectives / Target companies

Consulting engineers 1/27/2010 firms, Municipalities, Distributors, Contractors, Various industries such as Pulp & Paper, Food & Beverage, Oil & Energy.



- **Category:** Solar Water Heating
- **Sub category:** Manufacturer and distributor of Solar Water heating systems
- **Website:** [www.nimrod-solar.com](http://www.nimrod-solar.com)

## Company profile

NIMROD was founded on 1967 by Mr. Abraham Trabulsky- an experienced manufacturer for SDHW Solar Domestic Hot Water Systems (Flat Collectors and Storage Tanks- Solar and Electrical heating) acting now as the Chairman of Board and the present Managing Director is already held by the youngest son Mr. Rami Trabulsky.

**Date of establishment:** 1967

**Number of employees:** 70

## Background on the company

NIMROD is at present the Israeli leading manufacturer for advanced SDHW systems. All the products, production procedures and production flow are currently supervised, tested and certified by IIS, the Israeli Institute of Standards, QAS the Australian quality Assurance Institute, the Australian Standards Institute, the Spanish INTA institute and more already under certification.

## Technology & product(s)

NIMROD completely designs and manufactures its products. The R&D dept. is currently busy with the developing of the products, which are always far ahead from the existing in the worldwide Solar Thermal industry.

NIMROD made significant investments for the improving of the production procedures and technologies of manufacturing of its products. The new and advanced process of cleaning and internal Enamel coating of the Storage Accumulator Tanks is one of a few made during the last years. The process assures the excellent results of homogeneous Enamel coating to secure a long warranty period. The Collectors are design and produced with Copper tubes at a Drinkable standard. The production assures full heat transfer from the combustion chamber Copper Fins to the Copper grill tubing by updated Ultrasonic welding.

NIMROD exports at the present very successfully to Europe, Australia, Central America, Africa and South Africa, has intentions to penetrate also the North and South American Market.

- More then 50 years of commercial activities and experience, of intensive research and development.
- An impressive presence at the SDWH private market in Israel, which is the largest user of this technology in the world (about 90%)
- Manufacturer and distributor of all the products needed for the implementation of a Domestic Solar Water Heating System: Storage Tanks from 30 to 300 liters of volume, Solar thermal Flat Collectors on various dimensions and finishes, components and accessories for the assembling and install of the systems (Connecting Kits) and metal frames (Hangs and Stands).

## Objectives / Target companies

Expansion of the Export and distribution of our products to new markets in the world.

NIMROD set South Africa and the African Continent as a strategic target for the expansion of its commercial export activities.

NIMROD is now on its last steps to get an SABS Certification for its Geysers and Solar Thermal Collectors.

NIMROD will start to distribute its Solar Water Heating Systems in South Africa during 2010 through a commercial cooperation established with ELLIES.



**Nirosoft Industries Ltd.**

- **Category:** Water treatments and Wastewater treatments: Desalination, Demineralization, Industrial Wastewater Treatment and Recycle, Municipal and Industrial Effluent Upgrade and More.
- **Web site:** [www.nirosoft.com](http://www.nirosoft.com)

## Company profile

Nirosoft specializes in the design, manufacture, installation, operation and maintenance of hi-tech tailor-made water and wastewater solutions.

**Date of establishment:** 1990

**No. of employees:** 60

## Background on the company

Private company; Activity: 90% export 10% domestic.

All Nirosoft systems and services are tailor-made in accordance with customer requirements, project and site specific conditions.

Nirosoft utilizes the most advanced technologies to provide an extensive range of treatment solutions. Most of our projects are turnkey based, starting from preliminary feasibility tests, through process optimization and design, detailed engineering, manufacturing, final testing, on-site commissioning, client training and after-sales field service.

Full and on-going service is provided directly by our headquarters, our overseas offices and our network of authorized agents, distributors and service providers.

## Examples of past projects

- **Cyprus 2008** – Sea water desalination plant for drinking water to the City of Limassol. BOT project
- **Cyprus 2008** – Ground water rehabilitation for drinking water purposes – bore water purification. BOT project
- **Chile 2008** – Effluent treatment and reuse – copper processing plant
- **Australia 2008** – Water purification for drinking purposes– from bore water
- **Australia 2007** – Water treatment for industrial process water– from bore water
- **Italy 2007** – Water desalination and demineralization for power station– from sea water
- **Equatorial Guinea 2007** – Water treatment for drinking & general purposes for hospital– from well water
- **Iraq 2007** – Water desalination & purification for drinking purposes in rural areas– from various sources
- **Ireland 2006** – Water treatment for drinking purposes for the army camps– from various sources
- **Australia, Spain, Israel and others** – Wastewater and municipal effluents for irrigation, recycle
- **Spain, Israel and others** – Industrial wastewater and effluents from factories for recycle and discharge

## Technologies & product(s)

- Membrane separation technologies for water purification, desalination & demineralization: Micro-Filtration (MF), Ultra Filtration (UF); Nano-Filtration (NF) & Reverse Osmosis (RO)
- Electro-Deionization (EDI) for Ultra Pure Water (UPW) and Water for Injection (WFI)
- Ion Exchange
- Media & Activated Carbon Filtration
- Dissolved Air Flotation (DAF)
- Membrane Bio Reactor (MBR)

## Objectives / Target companies

All companies/firms in need of water/wastewater treatment such as factories (cosmetics, food, beverage, textile, paint, etc), hi-tech & pharmaceutical industries, hospital/dialysis centers, hotels/resorts/villages, slaughter/chicken houses, greenhouses etc. Project agents.



- **Category:** Drinking Water
- **Sub category:** Nitrate removal
- **Web site:** [www.nitron.co.il](http://www.nitron.co.il)

## Company profile

Nitron, Israel's second largest water treatment company, has developed an efficient technology to remove nitrates and deliver quality drinking water for well owners and water companies.

Nitron's SED ( Selective Electro Dialysis) has been working successfully in Israel in 15 plants that save more than 55% on water costs for our customers. All Nitron plants produce water according to rigorous quality standards under strict government supervision.

**Date of establishment:** 1994

**No. of employees:** 60

## Background on the company

Nitron has been treating water and waste water for 15 years in Israel- the home of smart water solutions. Nitron has implemented a variety of water projects for over 50 clients, including Israeli municipalities, Mekorot- Israel's national water company, Danone Israel, Nestle Israel, The Weizmann Institute, and more.

Nitron is owned by "Housing & Construction" (TASE: SKBN) Israel's largest construction company, controlled by the multi-billion dollar Arison Group. Nitron is the group's water specialist, building complex projects such as waste water treatment, desalination, drinking water purification and more. Thanks to its corporate affiliation, Nitron is able to provide flexible financing solutions to meet its customers' needs.

## Examples of past projects

Purification of well water- Mekorot- the national water company, Weitzman institute, Rechovot, Nes ziona, Rishon Letzion, Hadera, Raanana and Tel tzur.

## Technology & product(s)

Nitron's SED is an EPA approved solution to remove nitrates from large-capacity ground and surface water sources of 100,000,000 gallons per year and up.

Nitron's SED uses an electrical process to separate nitrates from the water and concentrate it in separate cells. It can replace traditional technologies such as Reverse Osmosis or Ion Exchange with a simple process that typically includes only pre-treatment with a membrane stack to produce drinking water of the highest quality.

Benefits of our technology include: protection of the environment, lower operations & maintenance costs, and low consumption of chemicals and energy.

## Objectives / Target companies

Nitron's primary objective is to provide turn key solutions to remove nitrates and deliver quality drinking water for well owners and water companies Potential clients: municipalities and well owners.

target companies for cooperation:

- Private water treatment companies who provide water to well owners and municipalities
- Primary construction companies
- Consulting engineers
- Water treatment solution providers who need a complementary solution
- Water companies



- **Category:** Consulting and engineering services, Drinking water, Industrial waste treatment, Waste water treatment, Water security, Water resources management.
- **Web site:** [www.palgey-maim.co.il](http://www.palgey-maim.co.il)

### Company profile

Palgey-maim, water and land resources development company.

**Date of establishment:** 1973

**No. of employees:** 60

### Background on the company

Since foundation, the company has been involved in flowing infrastructures covering a wide range of their various aspects: Reclaiming effluents for irrigation, supplying fresh water, removal and treatment of wastewater, urban and agricultural drainage, storing runoff water and waste water in reservoirs.

### Examples of past projects

- Operation of 200 pumping stations, 14 wastewater treatment plants using a wide range of different technologies.
- Jezrael Valley project: Effluents distribution system. annual capacity of 21 million m<sup>3</sup>. Initiating, designing, building and operation.
- Western Galilee project: Effluents supplying system design for irrigation with an annual capacity of 25 million m<sup>3</sup> including reservoir with total capacity of 6 million m<sup>3</sup> and pump stations with total capacity of 8000 m<sup>3</sup>/hr.
- Hasolelim WWTP - MBR 3000 m<sup>3</sup>/day .
- Kini WWTP - Activated Sludge 4000 m<sup>3</sup>/day .
- Subterranean Drainage and salification prevention project in the Jezrael Vally- 5000 Ha.
- Kishon river - Reestablishment the Kishon River bed (along 13Km).
- Supply and treatment of effluents for power stations run by the Israel Electric Corporation - Alon Tavor and Gezer- with an inflow of 1000 m<sup>3</sup> per hour.

### Technology & product(s)

Among the different technologies employed are activated sludge, MBR, SBR, and extensive plants.

Using GIS and advanced Hydraulic software in the design process.

### Objectives / Target companies

Water supply companies, private and governmental corporations in the area of water supply and waste water treatment.



- **Category:** IT solution for Global Telemetry, Real Time Control & Data Management for Energy, Water and more.
- **Sub category:** CleanTech, SCADA. Telemetry, Energy, Water.
- **Web site:** [www.realiteq.com](http://www.realiteq.com)

### Company profile

RealiteQ is a complete IT infrastructure that facilitates the monitoring, controlling and data acquisition of remote systems that are distributed at various locations and worldwide.

RealiteQ insight is a breakthrough new product for intelligent control and performance monitoring. The central user interface provides seamless transition between real-time screens, screen-editor, current-alarm history report and configuration save time and money during a system start-up, maintenance and control.

The easy-to-install and ease-of-use philosophy of the RealiteQ system has been applied to advanced control so management and maintenance people can tackle large, interactive process problems, make better decisions more quickly and save time and costs for the detection and debugging of system malfunction. This capability allows users to drive their system toward economically optimum solutions based on energy and feed costs as well as product values, while simultaneously respecting multiple constraints. Users can now easily optimize their system for maximum throughput, maximum profit or minimum energy. Maintenance people can easily reduce their system downtime to minimum.

**Year of establishment:** 2007

**No. of employees:** 5

### Background on the company

Realite Technologies LTD., a private owned company is a sister company to Topco C&A LTD. and NC Engineering LTD., both well established firms with more than 20 years of experience in control systems, Power and Energy controlling and SCADA.

The company provides connectivity and data management services to municipalities, Utilities, associations, energy groups and others.

### Examples of projects

- Real Time management for VPP (Virtual Power Plants) and Smart Grid.
- Remote Monitoring of Solar and Wind Power Systems over cellular networks.
- Diesel Generator Load Shading management solution over cellular and ADSL.
- WEB SCADA for Pumping Stations spread over large area (cellular and satellite).

### Technology & product(s)

RealiteQ is a platform that facilitates the monitoring and controlling of remote systems that are distributed to large areas or even worldwide. RealiteQ aims to solve many common problems that are associated with distributed control applications such as connectivity, performance, network configuration and security. RealiteQ harnesses the power of Internet and Cellular standards to offer unparalleled performance, scalability and ease of use.

### Objectives / Target companies

Strategic partners/investors, OEMs, Integrators, Municipalities Utility Companies & Associations.



- **Category:** Waste water treatment and Recycling, Water treatment and Desalination, Drinking water, Consulting and engineering services, Water resources management
- **Web site:** [www.rimonltd.co.il](http://www.rimonltd.co.il)

## Company profile

**Date of establishment:** 1996

**No. of employees:** 35

## Background on the company

**Waste Water Treatment and Effluent Reuse Systems.** Rimon expertise in: initiating, planning, manufacturing, implementing and financing of wastewater treatment plants and Effluent Reuse systems for municipal, agricultural and industrial purposes.

**Water Treatment solutions.** Rimon has vast water treatment solutions, using creative application of advanced technologies and equipment, such as MF, UF, NF, RO, MBR, EDI, ION EXCHANGE etc for purification, filtration and desalination systems, for municipal, agricultural and industrial purposes. Rimon adjust the optimal solution and technology for each project.

Rimon has performed: TK, DBOT/DBOO and PFI projects.

## Examples of past projects

- **Mey Gat, agriculture cooperative water plant Ltd.** 4,000,000 Q/M a year- waste water reclaim system for irrigation of agricultural purposes by system of water reservoirs, filtration system, pumps and pipes. PFI- construction, financing the project, project management and implementing.
- **Desalination of process water- food industry (Israel).** Water desalination of process water for food industry using RO technology- TK.
- **Bikat Hanadiv.** 8,500,000 Q/M a year- waste water reclaim system for irrigation of agricultural fields and plantations by water reservoirs, fine filtration system, pumps and pipes. BOO, Initiating, planning, financing, implementing, operating and allocation management.
- **Wyoming (USA).** Construction of 900 GPM water treatment plant in the USA Gas industry using IX technology. Turn Key- full project management and construction.
- **WW Tertiary treatment plant (Israel).** WW Tertiary treatment plant for unlimited municipal irrigation purpose of 17,500 Q/M per day municipal waste water.

## Technology & product(s)

The company's expertise is in initiating, designing, financing, manufacturing (using its affiliate companies) and the implementation of water treatment and wastewater reuse systems. Rimon has established 5 different subsidiaries dealing with water, agriculture and related infrastructure, making it one of the world's foremost resources for solutions to water issues in the public, private and government sectors.

## Objectives / Target companies

Public, private and government sectors.



- **Category:** Consulting and engineering services, Waste water treatment, R&D.
- **Web site:** [www.triple-t-waterfund.com](http://www.triple-t-waterfund.com)

## Company profile

**Date of establishment:** 2005

**No. of employees:** 10

## Background on the company

Water Fund group is the parent company of Triple T and ToxSorb. Triple T specializes in planning and constructing systems for treating sanitary wastewater, industrial wastewater, and agricultural wastewater such as olive presses, dairies and pig farms. The company further specializes in planning and constructing wetlands for treating wastewater and sludge, upgrading effluent quality for irrigation and release into streams and river beds, planning and constructing sludge stabilization systems to Class A standard, treatment of grey water for re-use and more. The company's staff includes professionals in variety of areas such as Biotechnological engineering, process engineering, management of water and environmental resources, on-site management experts and more. The company holds a long run cooperation agreement with T.N.A. Systems regarding fields of electric engineering, control and mechanical engineering.

## Examples of past projects

Wetlands: WTP Kibbutz Lahav, WTP Chan Hasayarut, WTP Shomria (in work), WTP Ramon (in work)  
– Planning, construction, operation

Consultation, in addition to process and management guidance:

- Municipalities: Naharya, Akko and more
- Industry plants: Off Hanegev, Strauss, Paz and more

## Technology & product(s)

**General description:** An intensive wetland method.

The proposed treatment is based on biological processes occurring in an ecological system, which combines saturated substrates and vegetation. A population of microorganisms develops within the root system and the substrate, and decomposes the various pollutants to yield stable compounds.

The technology is suitable to treat wastewater from different sources:

- Treating effluents to the quality standard required by the authorities for irrigation and streams;
- Full treatment for wastewater from towns and villages, especially for those settlements located far from regional treatment systems;
- Industrial organic wastewater;
- Agricultural wastewater.

The wetlands' system is stable, reliable and cheap to operate, capable of yielding very good results and is implemented at a large number of sites worldwide in diverse weather conditions.

**Function of the product(s):** Upgrading effluent quality for irrigation and release into streams and river beds.

## Objectives / Target companies

- Companies with wastewater from the following fields: Industrial, municipal and agriculture
- Contractors who are looking for a collaboration in the field of industrial, municipal and agriculture waste water treatment



- **Category:** Air / Gasses / Particles pollution treatment, Flue-gas cleaning.
- **Sub category:** Industrial Water Cleaning, Waste Water Treatment.
- **Web site:** [www.vortex-envirotech.com](http://www.vortex-envirotech.com)

## Company profile

**Vortex** develops Pollution Control systems for the cleaning of industrial emission and industrial liquid flow from fine particles and gas pollutants in a scalable and cost-effective manner. The company operates globally directly and through partners, and successfully deployed its products with prestigious customers.

**Year of establishment:** 1997

**No. of employees:** 5

## Background on the company

**Vortex Ecological Technologies** develops superior systems for **cleaning industrial flue gas and liquid** from particles or gas pollutants. Based on its Advanced Vortex Chamber (AVC) technology, Vortex developed cost-effective solutions for air-particles gases cleaning and hydro-Vortex for cleaning industrial fluids from solid particles.

## Examples of past projects

- End to End pollutant gasses and water cleaning for Lime plants.
- Fine dust cleaning for metal treatment and painting plants.
- De-dusting metal production halls
- Cleaning dust and/ toxic gasses in fertilizer plant
- Potash production plant pollutant Gasses cleaning.
- Reduction sludge production to 0 (zero) waste in concrete plants (ReadyMix).
- Particles cleaning from cooling water in Metal plant.

## Technology & product(s)

### Technology:

Vortex's core technology manipulates the forces created by a high velocity motion of either gas or liquid inside a proprietary Vortex Chamber to separate fine particles from a gas or liquid flow. This results in efficient separation performances and lower operational and maintenance costs.

### Products:

#### Gas Cleaning

- Wet-Vortex is a system used to clean both pollutant gasses and solid sub-micron particles.
- Dry-Vortex is used to clean fine solid particles from gas/ air.
- Sox- Vortex effectively cleans Sox from industrial emission.

#### Liquid Cleaning

- Hydro-Vortex is used for cleaning liquid from particles.
- Vorsep- is used to concentrate sludge by separating the liquid out of the sludge.

#### Integrated Cleaning

- Integrated-Vortex- An integrated system where the Wet-Vortex captures the emitted pollutants while the Hydro-Vortex recycles the liquid for reuse, thus creating an efficient closed loop system

## Objectives / Target companies

**Industrial cooperation, Joint-Ventures, Marketing cooperation** with environmental, process engineering and implementation companies.

**Business cooperation** with enterprisers.

**Areas of application and Customer target groups:** Chemical, Paper, Fertilizer, Stone, Wood and Cement industries. Clay, Boilers, Quarries and Lime industries. Diesel Generators. Industrial Liquid cleaning.

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