Israel’s Smart Water Technology Roadshow

September 9–12, 2019

California, Arizona, and Utah, USA
The Israel Export International Cooperation Institute is your premier gateway for doing business with Israeli companies. IEICI’s expertise in technology and product scouting, joint ventures and strategic alliances with Israeli companies spans more than half a century.

The Water Sector at the Israel Export Institute promotes the Israeli technological innovation and assists companies in penetrating global markets by providing professional information, drafting business plans, creating business partnerships, assisting in finding business opportunities and business contacts, organizing incoming and outgoing delegations, participating in exhibitions and international conferences around the world and marketing activities with the support of commercial attaches and professional consultants from around the world.

Aviv Berkovich
Manager, Water Sector
Tel: +972 3 514 2817
Email: avivb@export.gov.il

The Israel Economic Mission to the West Coast operates within the public sector but is private-sector minded. We act as a bridge between the west coast and Israeli business communities and are here to connect entrepreneurs, investors, and executives from a wide variety of different industries. Our mission is to generate win-win collaborations: We support US-based companies in achieving their innovation and business goals by connecting them to Israeli innovation and cutting-edge technologies. By leveraging its networking capacity and industry knowledge in Israel and the Western United States, the Economic Mission is able to seamlessly engage prospective business partners half a world apart. Our office is part of a network of 45 economic and trade mission in key financial centers throughout the world, with a HQ in Jerusalem Israel.

Rae Roth
Director of Business Development, Water Technologies
Tel: +415 986 2701 Ex 106
Email: Rae.Roth@israeltrade.gov.il
<table>
<thead>
<tr>
<th></th>
<th>Company Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AGM Communication &amp; Control</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>Amiad USA</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>Aquarius Spectrum Ltd.</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>DOROT CONTROL VALVES</td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>Elgressy Engineering Services Ltd.</td>
<td>8</td>
</tr>
<tr>
<td>6</td>
<td>EPC LTD</td>
<td>9</td>
</tr>
<tr>
<td>7</td>
<td>Filtersafe</td>
<td>10</td>
</tr>
<tr>
<td>8</td>
<td>IOSight</td>
<td>11</td>
</tr>
<tr>
<td>9</td>
<td>Rotec</td>
<td>12</td>
</tr>
</tbody>
</table>
AGM Communication & Control

Company at a glance:
AGM Communication and Control provides wireless communication and industrial control solutions for SCADA networks since 1995. Our clients include government, municipal and private infrastructure utilities in the water, wastewater, O&G, environmental and power sub-stations. AGM solutions are designed for upgrading and optimizing existing legacy distributed SCADA networks efficiently and economically, by using our deep know-how and expertise, leveraging AGM’s R-Win SCADA network manager.

Technology and Products:
R-Win SCADA Network manager connects any PLC, sensor or field device to existing SCADA network without writing a line of code or making changes to existing hardware. R-Win SCADA Network Manager enables secure and reliable real time data communication management, without hardware or software changes, using AGM’s proprietary Push by Exception protocol.

Goals:
Our company’s goal is to explore business partnerships with potential control and communication integrators. We also wish to meet with utilities’ control and network engineers to understand their optimization requirements.
Company at a glance:

Focused on the worldwide need for clean water, Amiad specializes in developing and marketing environmentally-friendly water filtration solutions for industrial, municipal, oil and gas and agricultural use. Our automatic self-cleaning filters and manual filters have built a worldwide reputation for efficiency, effectiveness, and reliability.

Technology and Products:

Amiad Water Systems is a world leader in water treatment and filtration solutions. For over 55 years Amiad has devoted its passion and commitment to developing a comprehensive line of water filtration systems for protecting water applications in the industrial, municipal, irrigation, ballast water, Oil & Gas and domestic use segments. Every Amiad water filtration system is built for efficiency, effectiveness and reliability and is backed by our commitment to excellence and dedication to customer service. Our innovative technologies – screen, disc and microfiber – meet the challenges presented by different water sources, outlet requirements and extreme working conditions. Our solutions process millions of cubic meters of water every month, delivering clean water all year round and all over the world. Certifications include NSF-61 and Title 22.

Goals:

We would like to meet with companies that need or recommend clean water solutions or are looking for new efficient methods to treat, recycle and reuse water. This list includes: owners, operators and design firms.
Aquarius Spectrum Ltd.  www.aquarius-spectrum.com

Company at a glance:

Aquarius Spectrum is an industry-leading supplier of innovative leak detection solutions designed for water loss reduction and prevention, pipe condition assessment, and optimized maintenance and operational costs. Aquarius’ end customers are water utilities. Aquarius products are currently monitoring more than 2,500 miles of water pipes around the world, helping major water utilities to reduce their non-revenue water and significantly lower maintenance costs through the installation of fixed and mobile acoustic sensors and comprehensive data analysis provided automatically by the cloud-based monitoring system. Aquarius offers a wide range of innovative solutions for monitoring any type of water pipe materials and diameters.

Products and Technology:

Permanent Water Leak Detection (AQS-SYS)  AQS-SYS for leak detection and pipe condition assessment is a fixed monitoring system using permanent vibration and hydrophone sensors equipped with new-generation signal processing algorithms. It enables active monitoring of all pipe materials and sizes, using typically 3 sensors per Mile of pipe. Equipped with 4G cellular communication modems and state-of-the-art synchronization modules, AQS-SYS performs highly accurate correlations. This system provides an automatic GIS presentation of leaks and of pipes’ conditions. AQS-SYS asset management capabilities provide decision making support and allow for the optimization of budget planning for infrastructure maintenance and replacement. iQuarius™ - A mobile leak detection tool for easy survey and accurate correlation  Aquarius’ mobile solution, the gold standard in the industry, provides a proven user-friendly capability for listening, surveying, correlating and generating a complete map-based data presentation of pinpointed leaks. The device connects to a smartphone, using a dedicated Android App., featuring a cloud-based analytical system that performs most of the operations and audit automatically.

Goals:

The company is looking for distributors with a strong affinity to the water corporations, dealing with detecting water leaks & assessing the condition of the pipes as well as water utilities that intend to implement innovative technology to cope with water loss challenges and to manage water assets through a system that provides “real” data on a daily basis.
**DOROT CONTROL VALVES**  
www.dorot.com

**Company at a glance:**

Dorot’s expertise is in hydraulic systems and water networks. With more than 70 years of experience and a core pillar of Matholding group since 2014, Dorot is a world-renowned name in the water industry, offering innovative solutions, that support growth and development.

**Technology & Products:**

Water control systems, water network supply, water monitoring, smart water systems, smart water networks, electronic controller, water network infrastructure

**Goals:**

Dorot aims to raise the awareness among USA Water Utility companies of its technological development and innovative solutions for water control system. Today, in all aspects of life, hi-tech solutions are becoming the norm. We have to understand how we can adapt our digital water services and create tailor-made solutions that will fit the US water utility needs and make sure we foresee the usability of water in the digitization era. As a core mission we take it upon ourselves to be contributors from traditional urban areas towards Smart cities.
Company at a glance:

Elgressy is an industry leader in electrochemical water and wastewater treatment, providing solutions for the industrial, commercial and municipal sectors for over 40 years. With patented and innovative electrochemistry technology at its core, Elgressy develops systems enabling simple, reliable and efficient water and wastewater treatment. By utilizing water-chemistry as a substitute for chemicals and by generating significant savings in water, chemicals, energy and maintenance, Elgressy systems are exceptionally cost-effective.

Technology and Products:

EST
EST is revolutionizing cooling tower treatment, providing a comprehensive and effective solution to the problems associated with operating cooling towers; corrosion, scale and biofouling.
Advantages:
• Generates significant water savings
• Cost effective – rapid return of investment
• Chemical free solution -eliminates the need for expensive and harmful chemicals
• Very low life cycle cost and electricity consumption
• Reduces maintenance, shut downtime and labor cost
• Controllable and measurable ensuring consistent quality water

EEC
Elgressy electrocoagulation and oxidation customized systems safely and efficiently remove multiple impurities from water and wastewater. These include heavy metals, metalloids, silica, organics, ammonia, nitrates, nitrites, phosphates, emulsified oils, suspended solids, solid particles, dye, arsenic, radioactive isotopes and even pathogens.

LPB
The LPB system minimizes the risk of Legionella bacteria by generating Chlorine Dioxide in situ using a patented technology.
Advantages:
• Chemical-free, safe and ecological
• Cost effective
• Corrosion-free solution

Goals:

We are looking for partners in the US to bring this amazing and beneficial technology to the end-users. Ideal partners should be design/engineering/system integrator companies, servicing clients in the commercial, industrial and municipal sectors for water and wastewater treatment applications.
EPC LTD

Company at a glance:

EPC Ltd. has over 25 years of experience in developing innovative environmental solutions with unique expertise in designing and manufacturing scalable and energy efficient decentralized on-site wastewater treatment plants which demonstrate proven performance in compliance with EPA requirements. There are over 100 successful installations in Israel and in VIRGINIA.

Technology and Products:

EPC proprietary technologies:
1. The “Bio-Disk”, (RBC), is an ideal modular solution for isolated small communities, parks, army camps, commercial center, etc. The EPC system brings high quality effluent with proven minimal operational and maintenance cost and comes with an optional solar powering for full operation and/or additional energy conservation. Biological process advantages are:
   • minimal stabilized excess sludge.
   • high efficiency in BOD removal.
   • high nitrifying and denitrifying process.

2. GreenFloat DAF is a versatile circular DAF system which provides very high separation efficiency at a relatively low cost. The prime principle is the counter current flows that assure premium solids capture. We offer various hydraulic options from zero (full flow) circulation to above 100%, bubbles size control, no chemical operation (subject to testing) and other innovative features.

Waste Industry Applications:
• Animal farms/live stock (pigs and dairies)
• Paper industry
• Textile industry Paint industry
• Food industry
• Oil recycling treatment

Goals:

EPC, currently works in Virginia, and is planning to expand its activity to other states in the US. We would like to meet county/states officials, PSA personal, engineering firms handling decentralized wastewater solutions, and also regulatory agencies. We are also interested to introduce our products to the Live Stock/Dairy Market providing pre-treatment solutions.
Filtersafe is an international company specializing in the supply of automatic filtration systems for municipal and industrial applications. With expert knowledge in automatic filtration, Filtersafe brings unrivalled economy, value and performance to water filtration. Filtersafe is equipped not only with the technology but also the know-how to integrate successfully into water industrial applications. Our filter’s tailored designs and simple modularity enable us to supply filters from 10 microns upwards, with flow rates from 50–5000m³/hr in a single unit and limitless capacity in a modular configuration.

**Technology & Products:**

Filtersafe brings unrivalled value, effectiveness and durability to even the most demanding filtration solutions. Our filters patented Everclean technology using the Smartweave screen and Nozzlex cleaning devices can effectively remove high volumes of TSS and organic matter including macro-fouling.

Key applications where our filters excel are:
- Intake water
- Process water
- Produce water
- Raw water

Filtersafe automatic screen filters utilize unique, patented and leading edge technologies to ensure the high performance criterion the market demands are met.

**Goals:**

Filtersafe aims to be the global leader in pre-treatment solutions for Municipal and Industrial applications.
Company at a glance:

IOSight is a leading provider of data management and analytics solutions, specializing in the water and energy sectors. IOSight provides well-proven industry-specific solutions for water utilities and delivers a variety of benefits including: water quality monitoring, cost reduction, productivity improvement and regulatory compliance. With over 100 installations worldwide, IOSight provides robust, reliable and flexible solutions enabling practical data-driven management. Managers and operators can get actionable, accurate, comprehensive, “real-time” insights into their site performance, as well as advanced decision-support solutions such as: anomaly detection, early fault prediction, and optimization of operations and resources.

Technology & Products:

• iGreen - IOSight’s core system - safely, systematically, and reliably, collects large amounts of designated data via a variety of interfaces. The collected data is cleaned, validated, and stored in a modeled SQL database and then processed, analyzed, restored and presented in the form of meaningful significant outputs which include: reports, online dashboards and decision support tools.
• iShed – An algorithm-based solution for water quality monitoring and water security in rivers and watersheds provides a reliable pollution detection and speed of propagation calculation in watersheds and eliminates 95% of false alarms.
• iWT/iWWT – Decision support systems for water and wastewater treatment plants. Recommends the optimized operational mode of key elements: chemical dosing and large energy consumers. The system also includes cyber security detection and monitors suspicous interventions through engineering anomaly detection and infrastructure data inconsistencies.
• iNET - Real-time water balances in DMA’s and managerial water-loss decision support based on online water balances from minimum night flow (MNF).

Goals:

IOSight is committed to delivering specialized data management and analytics solutions for the water sector. Our solutions are focused on specific challenges of water utilities, including monitoring of water quality, optimization of operations and effective facility management. Our delivery approach is based on the fusion of engineering and data science.
Company at a glance:

ROTEC’s Flow Reversal RO (FR-RO) is simple process engineered to maximize recovery and concentrate brine, creating a more robust and cost-effective treatment solution. FR-RO systems typically demonstrate a 15–20% increase in recovery and a 50–75% decrease in brine volume over conventional RO, making concentrate handling, including Zero-Liquid-Discharge, more economically feasible. With +20 installations around the world, FR-RO is a perfect complement for a sustainably-focused water utility, looking to maximize ROI by increasing water production and minimizing waste. Today, Flow Reversal is being implemented at scale into PUB’s TUAS Reclamation Facility, a 30 MGD system designed for 94% recovery, one of the largest high-recovery applications in the world.

Technology & Products:

Flow Reversal is designed to inhibit mineral scaling and biofouling, two of the limiting factors in high-recovery RO, by periodically reversing the flow of feed water inside the pressure vessel. This proprietary process exposes the tail element in the pressure vessel to under-saturated feed water, resolubilizing and sweeping away scale particles before they reach critical size. FR-RO is equally adept at inhibiting biofouling, due to large fluctuations in osmotic pressure during the flow reversal process. The result is a state-of-the-art treatment system; producing more permeate, less concentrate and fewer CIP cycles than conventional RO. Flow Reversal uses conventional, non-proprietary equipment for simplicity and ease of O&M. The solution is continuous, stable and easily retrofitted into an existing RO system – improving performance at a fraction of the cost of new equipment. ROTEC’s retrofit has been proven on a 3 MGD plant, boosting recovery from 75 to 90%. FR-RO systems deliver significant operational savings over conventional RO, in the form of increased permeate production, reduced concentrate discharge, reduced chemical use, fewer CIP cycles and extended membrane life.

Goals:

ROTEC would like to collaborate with public and private sustainability champions—currently using RO or planning to commission new RO facilities. We are looking to maximize ROI through increased water produce and brine minimization.
Israel’s Smart Water Technology Roadshow