



Business mission to Ukraine for Israeli IT technology companies and startups
The Industries of the Future. Be Future Ready!

October 29-31, 2019

Kiev

Innovation challenges for israeli companies and startups

Key project areas:

1. Customers:

- client services (mobile applications for energy management, bots consultants, billing systems, on-line platforms, using mobile devices for payments for services, etc.);
- services for private electricity producers (prosumers);
- solutions in the field of distributed generation, including the creation of virtual power plants for combining disparate prosumers;
- energy-efficient products (solar panels and energy storage solutions for households, private power stations, smart home solutions, etc.).

2. Technologies:

- solutions in the field of occupational safety (digital assistants, visualization of potentially dangerous places, warning the employee about the violation of safety rules);
- creation of digital twin of industrial facilities (power units, oil and gas fields, electrical networks and mechanical engineering);
- use of blockchain technology (providing flexible and fast commercial transactions, settlements between market participants, etc.);
- implementation of predictive analytics (prediction of failure of equipment, development of electrical networks, forecasting growth points of power at the accession of the sources of distributed generation, predictive maintenance of equipment);
- automation of maintenance of electrical networks (robotic inspection of the state of power lines of substation equipment, transmission of data on network parameters in real time);
- 3D printing application in industry;
- technologies in the field of hydrocarbon production (hydrodynamic and geophysical studies, intensification of hydrocarbon inflow in deep wells at high pressures and temperature transfer technologies for field wells operation at the late stage of development);

- solutions in the field of thermal power generation and coal mining (condition monitoring of rotating mechanisms, on-line coal quality control, coal mine methane capture, direct measurement of coal dust consumption for combustion, pipeline gust diagnostics, dust reduction, monitoring of cooling ponds and circulating water pipelines, prevention of turbine condenser tubes contamination);
 - solutions in the field of logistics (cleaning of cars, prevention of coal products freezing, detection of coal theft from the surface of railway cars, automation of coal sampling from cars).
3. Business processes:
- forecast models (dynamics of prices on the world markets of coal, gas, diesel fuel, gasoline, electric energy);
 - AR / VR - technologies for fast employee training and equipment maintenance;
 - automation of business processes (procurement, law, document management, collecting feedback from employees, consultations, psychophysiological examination)
 - application of modern technologies in business processes:
 - machine learning and artificial intelligence
 - blockchain
 - drones
 - electric transport
 - electricity storage
 - energy efficient solution
 - robots
 - 3D printing
4. New businesses:
- introduction of new business models ("uberization" of processes);
 - new client services;
 - use of unused production sites;
 - recycling or re-use of by-products of production (waste panels of solar power plants, recycling of batteries, ash and slag waste of thermal power plants, sludge after drilling, waste of coal mining industry).