

## Greece, EE-18-2017

IDE utilizes cutting-edge technology in the field of hybrid electric power, electric energy storage and power electronics, developing a series of hybrid Electric Power Conversion, Battery Energy Storage and Power Management products, with RES efficient integration, for defense, government and industrial applications.

IDE has extensive design and development expertise in the areas of:

- Power generation, power supplying, conversion, monitoring and control. Developed experience exists on the architecture, design and development of power generation and power supply systems throughout the mW to multi-kW range.
- Digital and Analog products, sub-systems and systems, including high speed boards, as well as, very low power consumption PCBs designed for battery operated devices.
- Wireless systems for various network topologies (Point-to-Point, Point to Multipoint, MANET, short range radios etc.) and Data links (e.g. Uplink missile data links, high bit rate Telemetries etc.)
- Software development for embedded systems that controls activates and complements the Hardware (HW), ensures basic interface communications (protocols) among system / product building blocks etc.
- Design and implementation of services and applications for end users of complex systems.
- Design and implementation of Networking Software architecture, for wired and wireless communications and in networking based services / protocol specifications and implementation.

To complement this, a comprehensive capability for modeling, simulation, system functional testing and environmental screening is available at the IDE premises.

IDE participates in joint multinational R&D and production programs, in cooperation with major international companies, for new systems and technologies.

### Topics

EE-18-2017:

Energy efficiency of industrial parks through energy cooperation and mutualized energy services

LCE-02-2016:

Demonstration of smart grid, storage and system integration technologies with increasing share of renewables: distribution system

LCE-04-2017:

Demonstration of smart transmission grid, storage and system integration technologies with increasing share of renewables

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