



**“SMART GRIDS AND SMART CITIES”**  
**INTERNATIONAL SUMMER SCHOOL**  
**6-8 June 2017 - Barcelona**

**DAY 1: SMART GRIDS**

**TABLE 1: TECHNOLOGICAL CHALLENGES RELATED WITH SMART GRIDS DEVELOPMENT**

**P2P Energy Trading in Smart Grids. José Manuel Martín, INYCOM - Innovation Technologies.**



Mr. José Manuel Martín holds a Master of Science in Physics and an Executive MBA. He has more than 15 years of experience in ICT and R&D consultancy for utilities, the building industry, telecommunication companies and public services, the last 10 of them in project and department management related positions. Specifically in the energy sector, he participated during 3 years in a project for “Comisión Federal de Electricidad de México” (CFE), the state owned nationwide mexican electric utility, involving the development of a complex real-time operations software package including functionalities such as Estate Estimation, Real Time Simulation, Restoration

and Contingency Analysis. Then he moved to San Francisco (USA) where he worked for the technology company Elequant for two years in different projects for electric utilities such as PG&E, independent system operators (ISOs) and regional transmission organizations (RTOs) to manage power grids more efficiently and restore quicker power after blackouts. Since 7 years ago he is the Technology Transfer Manager in the R&D Department of the Spanish technology company Inycom, where he has led the development of hardware and software products and services in the fields of electricity markets, smart grids, renewables and energy storage, participating in national and international public funded R&D projects, including FP7 and H2020 European Commission programs.

**Inycom Profile:** Inycom is a Spanish technology company headquartered in Zaragoza. Founded in 1982, Inycom provides high quality services and solutions with added value in IT and Communications, Energy, Laboratory Equipment, Electronics and Medical Equipment. It has a staff of more than 500 professionals and 9 offices in Spain, 1 in the Netherlands and 1 in Ecuador.

Specifically, in the Energy Sector Inycom is an ESCO offering services and products in the fields of measurement and data acquisition, energy efficiency, intelligent SCADAs, demand and generation forecasts and electricity markets assessment. In the last 8 years Inycom has participated in the implementation of different microgrids, especially in large industries and Technology Parks, integrating renewable energy sources and energy storage to improve the quality in power supply, energy efficiency and energy trading profitability.

Inycom R&D Department has a wide experience delivering products for telecommunication companies and electric utilities based on software development, artificial intelligence and electronic design, focused on scientific and technical applications. They provide a strong expertise especially in renewable energies research and smart grids.