



Place: **Sala 1.1**
Address: **Fira de Barcelona**
Day: **31/10/2019**

Industry 4.0: Novel strategies to develop energy solutions using IoT

The session will present new energy solutions using IoT from three different angles: research projects, innovative demonstrators and industrial solutions that intensively need IoT to be implemented. The session is organized by the RIS3CAT Energy Community, the Cluster of Energy of Catalunya (CEEC) and the R+D+i network "Energy for Society" (XRE4S), all being large ecosystems that integrate the knowledge of the energy sector in Catalonia from different angles and diverse stakeholders.

8:50 **Registration**

9:00 **Welcome**

Manel Sanmartí (KTT&CD Director at IREC), Xavier Farriols (President of the CEEC) and Joan Comas (ACCIÓ)

9:10 - 9:30 **Inspirational speech**

Joaquim Daura (CEEC) "The disruptive power of Innovation"

9:30-10:30 **Research projects in IoT. Moderator: Joana Tarrés (IREC)**

9:30-9:45 Alex Morata (IREC) "Novel concepts for a sustainable IoT"

9:45-10:00 Víctor Caballero (La Salle) "Social Internet of Energy - A new paradigm for Demand Side Management"

10:00-10:15 Cristina Corchero (IREC) "Using machine learning to forecast our client energy flexibility"

10:15-10:30 Jose Luis Domínguez (IREC) "Building a testbed for energy cybersecurity: The EURECAT-IREC platform."

10:30-11:30 **Demonstrators in IoT. Moderator: Angel Fernández (Kromschroder)**

10:30-10:45 Roger Marcos (DEXMA) "Using predictive analytics to identify energy saving opportunities"

10:45-11:00 David Bru (Igrid) "Impact of IoT technologies on today's distribution grids"

11:00-11:15 Raúl Aragonés (AEInnova) "The green revolution for the industry 4.0 using AEInnova batteryless NB-IOT device"

11:15-11:30 Ignasi Garcia-Milà (Worldsensing) "IoT ultra-low-power nodes for monitoring safe operations"

11:30-12:00 **Break**

12:00-13:00 **Industrial solutions in IoT. Moderator: Encarna Baras (EURECAT)**

12:00-12:15 Jordi Moltó (Schneider) "IoT-Driven Microgrids: Unlocking value from data"

12:15-12:30 Nora Etxezarreta (Ibermática) "Fingerprint: an IoT enabled solution for improving Machine Health Status"

12:30-12:45 Albert Ginestà (KFeW) "IoT devices to predictive maintenance. Saving production problems"

12:45-13:00 Isabel Tejero (Enerbrain) "IoT solutions to provide confort and energy efficiency"

13:00 – 13:20 **Discussion and concluding remarks:**

Joaquim Daura (CEEC) and Manel Sanmartí (IREC)

Updated information and program: <https://wp.me/p8HmWB-mu>

Organizers:



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