

WHAT'S HAPPENING

- Energy storage in electric grid
- The PocketWatt digital tool
- GN market

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Energy storage in electric grid

The increase of renewable facilities for electricity generation, with variable production depending on weather conditions, has led to the boom in energy storage facilities in the transmission and distribution networks. That allows the balance between generation and demand, frequency stability, voltage maintenance, elimination of current gaps, delay of investments and many other services depending on the needs of networks.

Although the regulations are not fully developed in the EU as a whole, countries such as Germany have already developed regulations for the commercial use of these technologies, moti-

vated by the benefits they bring to the national electricity system and connections with neighbouring countries.

The sizing of the Ion-Lithium storage systems, which can range from less than one MW to more than 20 MW, depends mainly on the market conditions and the existing remuneration, in addition to the technical conditions to fulfil the services for which it is designed.



Lithium Ion batteries for a 10 MW commercial project

PocketWatt digital tool

In the framework of the Digi-Label project, the PocketWatt digital tool has been developed

This application reports the energy labelling, product fiche and electricity and water costs, expressed in Euros. It also allows comparisons between several appliances and thus choose the most convenient for the consumer. Its product database includes white goods and domestic air conditioning equipment. Several commercial chains of Madrid, the Balearic Islands, Catalonia, Valencia and Aragon already use PocketWatt in their stores and online sales.

Free visible information in:

- Digital screens in stores.
- QR code for mobile, tablets.
- Intranet, web pages.

<http://pocketwatt.eu>

Digi-Label project is also carried out in United Kingdom, Czech Republic, Germany and Italy financed by H2020 programme of E.C.

Scan the code



 **PocketWatt**
THE DIGI-LABEL PROJECT



Let's know the running cost

Natural gas: an expanding market

The GN energy vector also offers several environmental advantages to mitigate climate change. The market trend is positive and growing in sectors of medium-high consumption, e.g. industrial SMEs, public and private buildings, hotels, the restaurant sector, etc. A recent study analyzed the technologies of micro-generation, air conditioning, VRF heat pump, natural gas stoves and ovens, showing their application in the mentioned sectors.

Special mention deserves the CNG vehicle market in which the advantages and barriers for its development were highlighted as well as the potential "preferred customers" to use these vehicles.



CNG Vehicle

Buildings 12h



Industrial SMEs



Buildings 24h



Restaurants



Sustainability in agro-industry

The food and beverage industries and in general the agro-industrial sector are addressed to show the public that their production is "sustainable". With the population increase it is necessary to produce more food and the sector faces the challenge of optimizing the available resources and minimizing the impact on the environment, including the recycling of waste. To favour sustainable production, companies have to evaluate life cycle analysis, **LCA** and know what is the environmental footprint of each product (Product Environmental Footprint), **PEF**, as well as the Indicators of Socioeconomic Behaviour, **KPIs**.

The studies carried out by the Federation of Food and Beverage Industries (FIAB), with the participation of Escan Consulting, allow us to identify the best strategy that the company can follow to demonstrate that its **production is sustainable and thus increase its market share**.

The main objective of the PEFMED project is the reduction of the ecological footprint and the application of innovation throughout the agro-food supply chain.

The novelty lies in the use of a common methodology of the European Union, which is applied in countries of the Mediterranean area.



Olives cultivation and production of olive oil that complies with PEF



EUREM.next

In April, the first meeting of this European project was held with the Escan participation. The design of new content and digital tools improving the current EUREM © training program that has been taught in Spain and in 50 other countries around the world is starting.

The main objective is to raise the capacities of energy managers to implement the recommendations of energy audits according to the European Union Directives and the challenges of the H2020 Program.

In Spain, RD 56/2016 partially transposes the Energy Efficiency Directive in relation to energy audits and accreditation of energy service providers and auditors.

The new contents include:

- Energy audit according to EN 16247 / ISO 50002.
- Transport & Mobility.
- Energy culture.
- Industry 4.0.

- Financing
- Digital tool.

Experts from Germany, Austria, Albania, Bosnia / Herz, Estonia, Finland, Greece, Latvia, Czech Republic, Serbia, Turkey and Spain participate in the EUREM.next project, the latter through Escan, s.l. energy consulting.

www.eurem-next.eu



Five Key issues to energy efficiency

"El Instalador" Spanish magazine in its June number publishes an article by F. Puente about energy efficiency in the agro-food sector.

After highlighting the importance of the sector in production, employment and exports, the cost of electricity and fuels directly affects its annual accounts and therefore its competitiveness was pointed out.

5 keys with their corresponding action to optimize energy efficiency are proposed:

- 1.- The role of the management teams in the change of the energy culture.
- 2.- Facilitate the implementation of

efficiency improvements.

- 3.- Consider the non-energy benefits.
- 4.- Public and private financing.
- 5.- The smart industry as part of the smart grid.



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Our offices:
Avenida El Ferrol, 14,
28029 Madrid
Tl: + 34 91 323 26 43
escan@escansa.com
www.escansa.com



Brief news

Energy efficiency in the industry

The conference was held at the CEOE headquarters with the sponsorship of Isover and the Saint-Gobain group. Escan focused his speech to the effective application of energy efficiency improvements, business culture in this area and the challenge of the 4.0 industries. The Regional Government of Madrid, IDAE, Renault, Danfoss, Bosch and Escan participated.

Smart metering and customer centricity

In the framework of the Annual Conference "WSED 2018", in Wels (Austria), the presentations of several European projects were made. In his speech, Francisco Puente highlighted the interrelationship between European consumers and the new measurement and billing systems.

Empower, effective measurement in public buildings

The measurement and verification of energy efficiency measures is a key aspect for financing by ESCO companies.

Training: EUREM[©] and Efficient Facilities Course

New edition of the "European Energy Manager" course, EUREM[©]

The Eurem course, exclusive of Escan in Spain, in online mode, has certified in the month of June new professionals from prestigious institutions and companies. The participants have acquired the necessary knowledge to perform energy management in their workplaces and analyze the improvements from a technical and economic perspective.

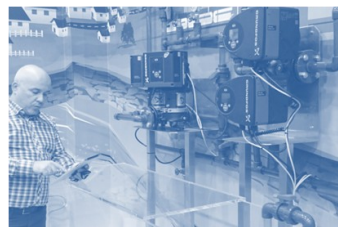
The next edition 2018-2019 will begin in the month of October and registration is now open at www.escansa.com



European Energy Managers

Efficient installations in food and beverage industries

FIAB, in coordination with Food for Life Spain and Escan Energy Consulting organized the Efficient Facilities in Food and Beverage Industries Course in January.



Efficient Facilities Course

Twenty professionals from all over Spain participated.

Presentations of efficient facilities were made by Atlas Copco, Carrier, Comeval, Escan, Isover and Sedical.

Practices were also carried out in "show-rooms" by Grundfos with industrial circulation pumps. There were innovative simulations of industrial boiler rooms, led by Bosch Commercial and Industrial Spain experts.