



# EF Technology Watch Webinar Series

## Transizione Energetica e Green Recovery: il ruolo della Digitalizzazione

*Elettricità Futura discute con i protagonisti  
del settore elettrico e della digitalizzazione*

## Who we are

**We are the leading association of companies operating in the Italian electricity sector, accounting for over 70% of the electricity produced and consumed in Italy.**



Andrea Zaghi, General  
Director  
**Eletttricità Futura**

Over 500 companies have chosen Eletttricità Futura. Our members are of all sizes, active in the production and marketing of electricity from conventional and renewable sources, in distribution and in the supply of services to the sector. Our members account for 75,000 MW of installed electrical generation capacity and 1,150,000 km of distribution lines.

Eletttricità Futura is a member of Confindustria, Confindustria Energia, Eurelectric, SolarPower Europe, WindEurope, Bioenergy Europe, RES4Africa Foundation, Motus-E and Coordinamento FREE.

## Moderation:



Nigel Hawkins,  
Head of European  
Affairs and Studies  
**Elettricità Futura**

## Closing Speech:



Kristian Ruby,  
Secretary General  
**Eurelectric**

## Speeches and Discussion:



**Alessio Cipullo**  
European Affairs and  
Studies  
**Elettricità Futura**



**Alessandro Bertani**  
Services & Smart  
Technologies Director  
**CESI TIC KEMA**  
Labs Division



**Dario Castagnetti**  
Digital Development  
Manager  
**Edison**



**Luciano Martini**  
Direttore del Dip.  
Tecnologie Trasmissione  
e Distribuzione  
**RSE**



**Gabrio Moresi**  
Head of Advanced  
Analytics  
**IREN**



**Andrea Ronchi**  
Sales & Marketing  
Director  
**NUO - Falck Group**



## **EF Technology Watch Webinar Series**

Online, 13 October 2020

# **Trend Tecnologici della Digitalizzazione e presentazione della Newsletter Technology Watch #4 2020**

---

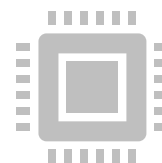
**Alessio Cipullo, European Affairs and Studies**

# Examples of relevant Emerging Digital Technologies

Several emerging technologies linked with Digitalisation are having or are likely to have a profound impact on the development of the power sector. As a non-exhaustive list...

Smart materials

Robotics and autonomous systems



**Data science applications**

Information and Communication Technologies  
(such as blockchain)

Wearable technologies

Artificial intelligence



**Internet of Things**

**Augmented and Virtual Reality**



Smart Sensing

Advanced design and manufacturing concepts

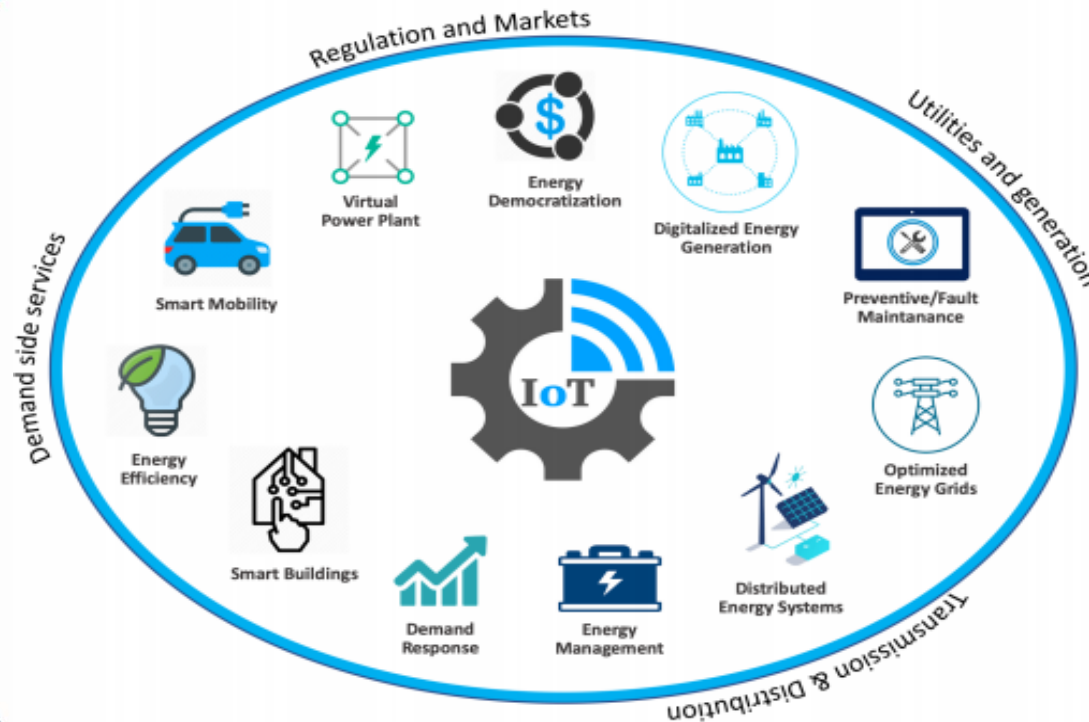
## Data science applications

- With regards to the power sector, **data science and analytics** has a vast range of applications, such as: forecasting changes in power flow, making long-term investment decisions and modelling consumer behaviour. This allows operators to anticipate risks and respond faster to changes, for example, making it **easier to manage real-time operation for the electrical system and market**



*Source: EF Technology Newsletter #4 2020 and references thereby*

# Internet of Things



- **IoT** has a wide variety of applications in the power sector and it is an enabler for **greater automation**. This might reduce the need and interaction of personnel, hence helping in case social distancing measures are taken

Source: EF Technology Newsletter #4 2020 and references thereby



## Augmented and Virtual Reality



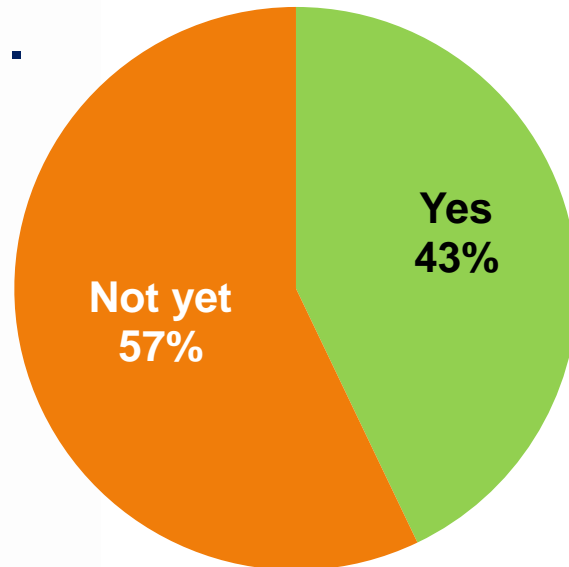
- **Augmented and Virtual Reality** can find several applications in the power sector, such as the use of smart glasses to inspect components and plants and connecting in real time with digital tools (e.g. manuals, digital twins, etc...) as well as with colleagues located remotely

Source: EF Technology Newsletter #4 2020 and references thereby

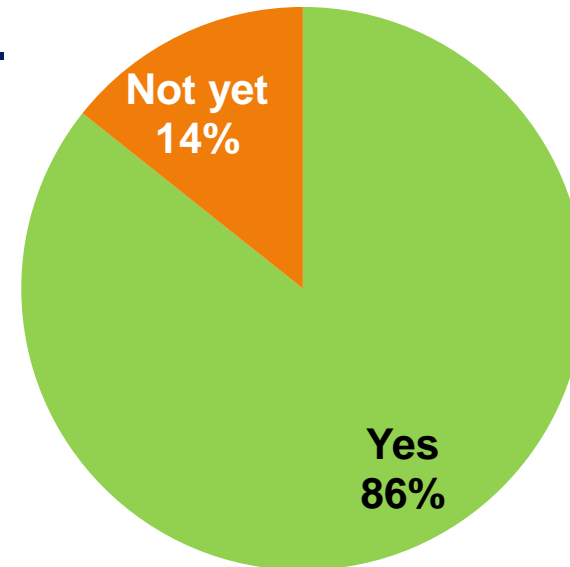


## EF Survey on digitalisation in the Italian Electricity Retail sector

1.



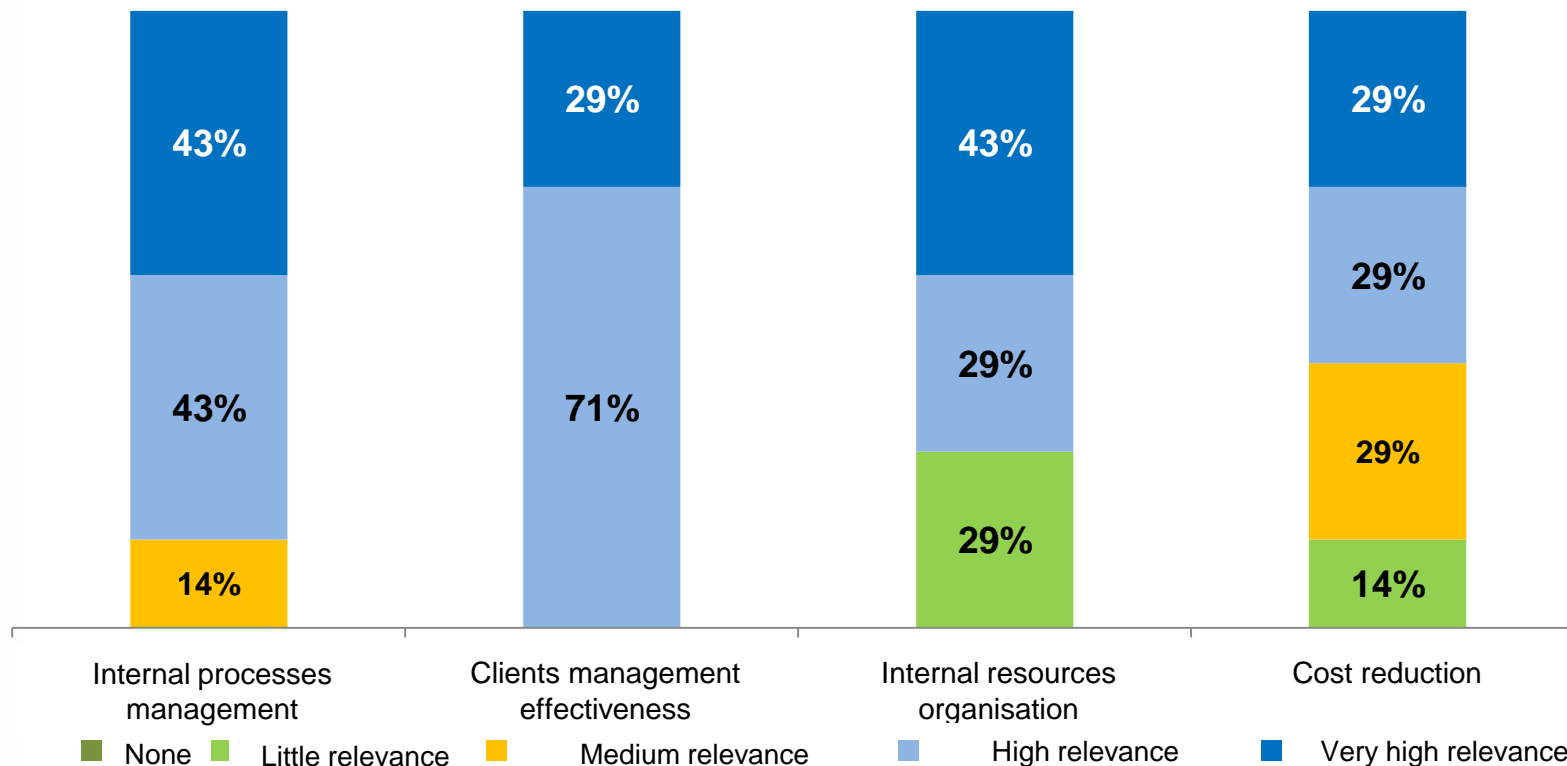
2.



About 43% of respondents reveal that their company already offers digital services and the remaining 57% are gearing up to do so (1), while practically all (86%) already use digital solutions to manage the relationship with their customers (2)

Source: Elettricità Futura, "Ritratto del fornitore di energia elettrica" ("Portrait of the electricity retailer in Italy"), 2020

## EF Survey on digitalisation in the Italian Electricity Retail sector



Significant impacts of digitalisation in improving the effectiveness of the relationship with customers, in the management of internal processes as well as in the organisation of internal resources

Source: Elettricità Futura, "Ritratto del fornitore di energia elettrica" ("Portrait of the electricity retailer in Italy"), 2020

## Technology Watch

Issue #4 - 2020



Technology Watch is the Elettricità Futura initiative to monitor global technology trends having the power sector at their heart, thanks to contribution of our Members and Partners

**[EF Technology Watch Webpage](#)**



**Nigel Hawkins**

Head of European Affairs and Studies

[nigel.hawkins@elettricitafutura.it](mailto:nigel.hawkins@elettricitafutura.it)

**Alessio Cipullo**

European Affairs and Studies

[alessio.cipullo@elettricitafutura.it](mailto:alessio.cipullo@elettricitafutura.it)

