

**HE<sup>VD</sup>  
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## ***Roundtable - WFEO CE Symposium***

**Prof. Massimiliano Capezzali, PhD**

**School of Management and Engineering Vaud, Switzerland**

**<http://energies.heig-vd.ch>**

**Hes·SO**  
Haute Ecole Spécialisée  
de Suisse occidentale

# COVID – Lessons learned - Generation

**Power generation has been ensured in a continuous fashion, by small decentralized plants, as well as large installations**

- Nuclear power plants
- Hydropower plants
- Natural gas- and coal-fired plants
- Large wind parks
  - Careful management of specialized staff
  - Increased IT security
  - Communication capacities
- Decentralized generation essentially not affected (e.g. rooftop PV and biomass)

# COVID – Lessons learned - Networks

**Energy supply to territories by way of international, national and regional physical networks has known no (major) interruption throughout the months of confinement**

- Electricity transport and distribution
- District heating and cooling networks
- Natural gas transport and distribution
  - Careful planning of maintenance, especially in terms of human resources at local level during the cold months
  - Usage of storage capacities when available
  - Overall management of networks

# COVID – Lessons learned - Public

**Energy has supplied one of the most crucial backbones to support the response capacity of countries and communities**

- Hospitals and emergency centers
- Essential industrial services and shops
- Telecommunications
- Homes
- Internet
  - Distance working
  - Online shopping
  - «Distant services» during semi-confinement (leading to new business models sometimes)

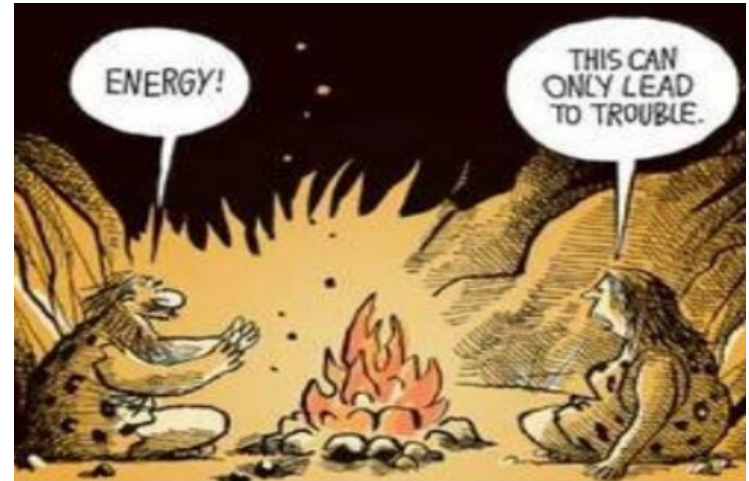
# COVID – And now the future

## *No energy, lots of cry*

- Importance of sustained investments in the development and maintenance of robust energy networks in cities and other areas
- Importance of multi-energy supply for territories, combining both centralized and decentralized generation
- Importance of increased security and redundancy at all levels: physical, management, IT, ...

**In all these aspects, the role of engineers, physicists and other technicians will be crucial and must be actively supported, from education to enlargement of opportunities and inclusiveness**

# Time for discussion ...



... thx for your attention !

Source : CEREMA

WFEO – Committee Energy – Symposium 2021  
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