DATA, BLOCKCHAINS AND THE FUTURE ENERGY MANAGER

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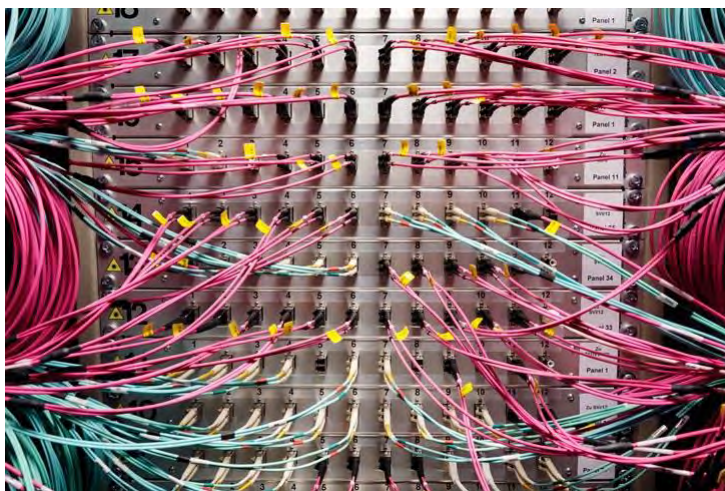
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Energy manager Skills:

5-10 years time

BIG DATA   BMS   ROBOTICS
IoT   ◆ BINANCE
AI   BLOCKCHAIN

E.R.O.E.I.

Fibre-glass reinforced epoxy blades of Siemens SWT-2.3-101 wind turbines. The blade size of 49 meters

There is a place for data.

Fundamentally we need it.

But it needs to be the right data.

And we must not use more energy
than the energy saved from data use.

futureproofing
digitalisation | decentralisation | decarbonisation

BIG DATA

Data where data is necessary
Data interoperability & regulation foresight

Futureproofing should consider:

What useful data is required?

Where are meters really needed to trade energy – or manage my building?

Has my building use changed?

Are my AI algorithms still valid?

Energy managers still need to apply logic and be trained in those skills of how a building operates and how to make best use of data.
Does it make sense!

Examples of random correlations that obviously and clearly are not related!
Source: http://twentytwowords.com

And the skills required for an Energy Manager?

In 5 – 10 years time = 2nd generation blockchain.

Crypto trading a nightmare! How will token trading be simpler?

More intuitive ''blockchains'', but humans still the intelligent species

And the skills required for a Data Scientist?

In 5 – 10 years time = totally different!

Security in a one stop shop

Understanding building science - not just numbers

Integrating other applications such as autonomous vehicle parking to visitor to building

Conclusions

- Improvements in AI and Big data will help – but has to be helpful help – data scientists need to understand buildings, energy managers, energy
- Don't hoard data - investments into data management must have specific uses and consider end of life especially in energy trading
- Humans won't be replaced by robots - automation will increase – but will need human intervention to understand what's changed and why
- Alarms are only indicators – symptoms not the cause! Skills are required to attend to the cause

Thanks for Listening

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