



April 2016

# Medium Voltage Customer Days

Enabling a stronger, smarter and greener power network

# The world of 2026

## Imagine how our world will change



**By 2026 everyone will be able to generate and store power – an estimated population of 8.2 billion people**

# 2006

## Do you remember?

### Flip phones or a Blackberry

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### Compact discs and iPods

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### The launch of Twitter

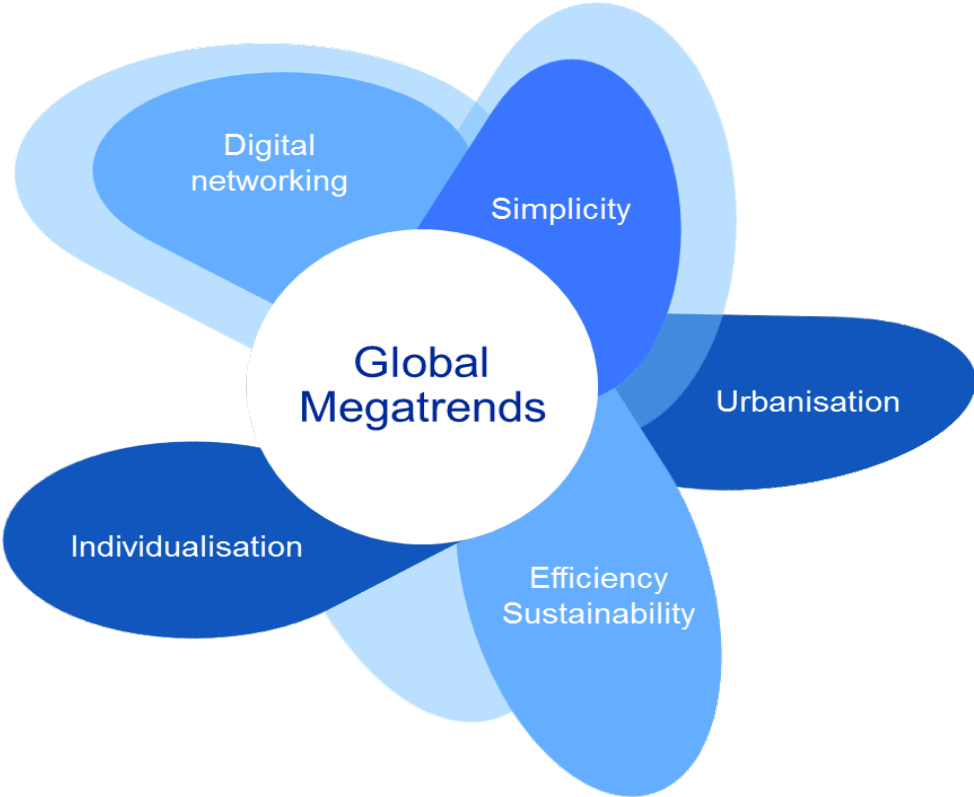
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It doesn't seem that long ago...

# The future of our businesses

## Megatrends are changing the world



**Connectivity**



**The future of power**



**Better World**



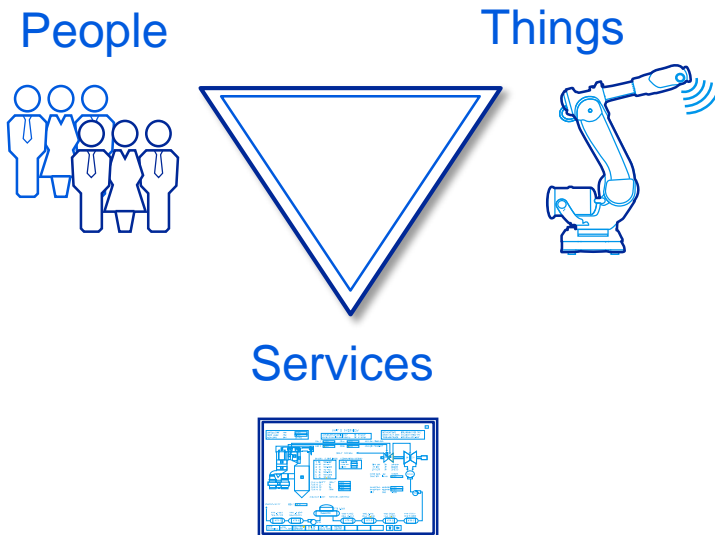
# Connectivity

## The Internet of Things, Services and People



### Industry 4.0 – today and tomorrow

Internet of ...



#### Example 1: New Relion® products

Enhanced interoperability with a new web-based user interface for easier service

#### Example 2: Arctic product family launch

Secure, reliable and real-time wireless connectivity to enable remote, real-time grid automation.

#### Example 3: Smart asset management

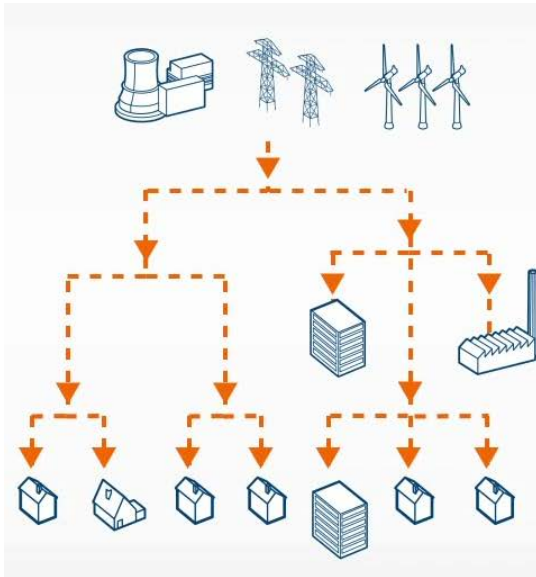
Remote condition monitoring concept for service and maintenance of low- and medium-voltage switchgear

# Connectivity

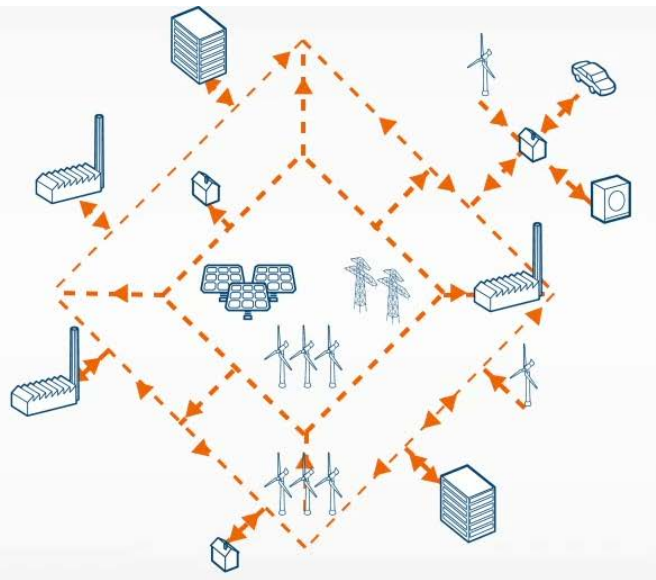
Global trend – big shift in the electrical value chain



Traditional grid



New grid



## Implications

- Multi-directional power flows
- Need for power quality
- Greener grids
- Interconnections
- Asset management
- New private investors

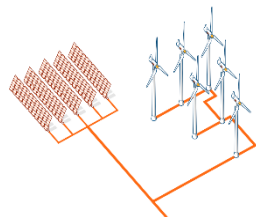
**We are leading the transition to the digital grid**

# The future of power

## Big shift in the electrical value chain

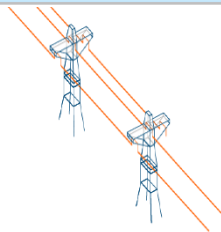


### Generation mix



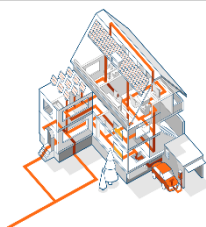
Renewable share: ~40% of capacity by 2035  
Greater volatility, less predictability  
More feed-in nodes

### Power transmission and distribution



Increasing complexity  
Control / information flow is key value driver  
Transmission: longer distances, higher voltages

### Micro- / Nano-grids

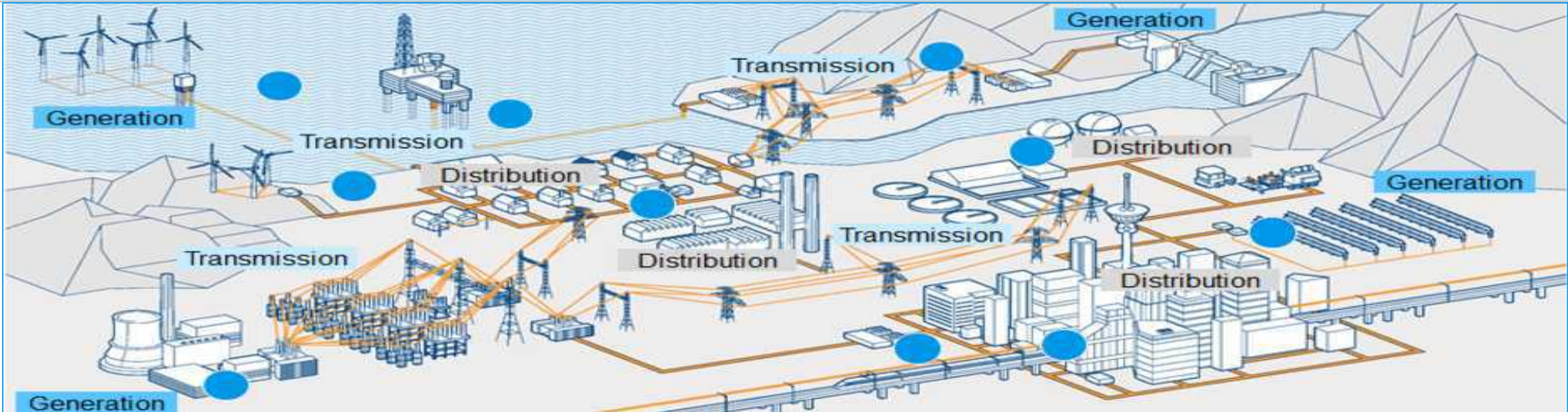


On- and off-grid  
Control / automation on “local” level  
Energy storage is key

**We are at the forefront of the change**

# The future of power

## Solutions to drive markets



### Utilities



### Industry



### Transport & Infrastructure



# Better World

Low- and medium-voltage solutions to help protect people and the planet



## Improving energy efficiency



Delivering solutions to reduce power loss, improve reliability and energy efficiency

## Smart load management



Smart grid technologies – automation and load management

## Protecting people & equipment

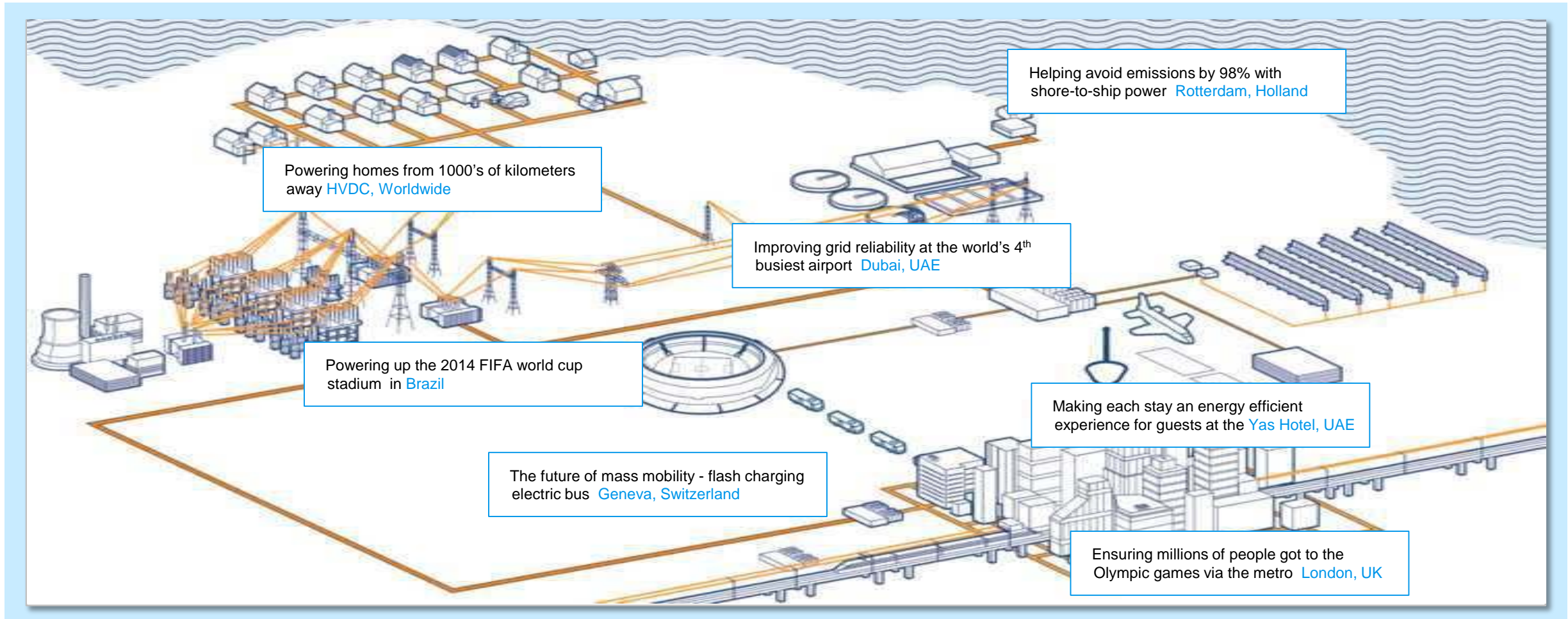


A Better World means helping to protect people and equipment with safe, reliable technology

**Enabling a stronger, smarter and greener power network**

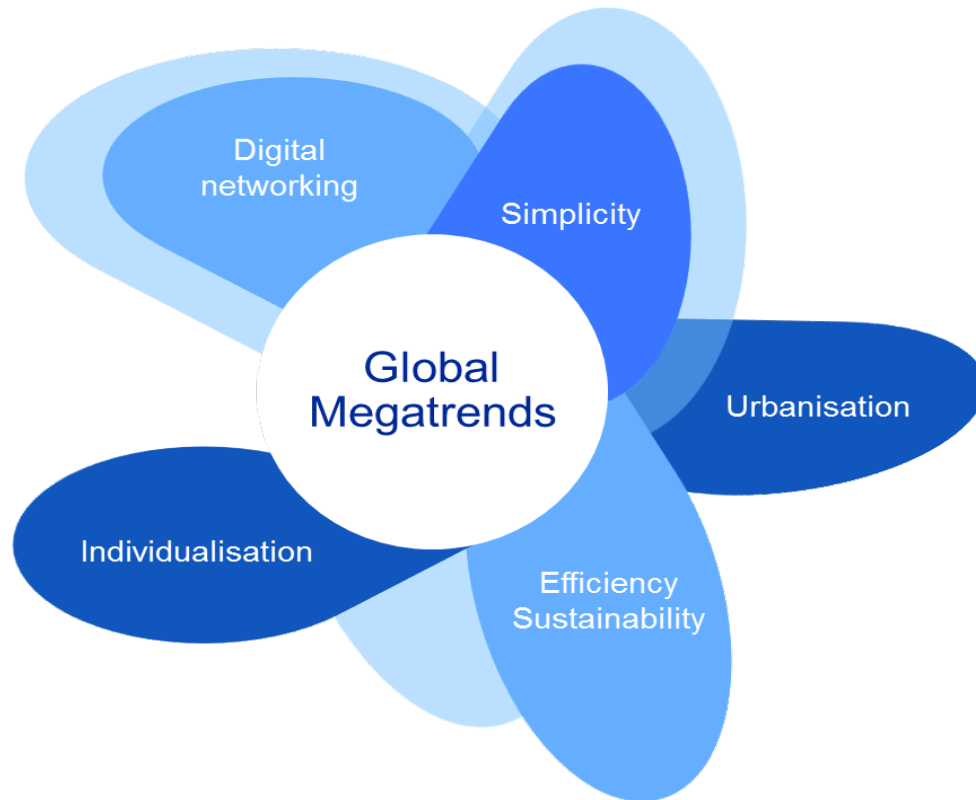
# Better World

## Low- and medium-voltage solutions to help protect people and the planet



# Conclusion

Ready for a stronger, smarter and greener power network



**Connectivity**



**The future of power**



**Better World**

Power and productivity  
for a better world™

