Paris Session 2022



Benefits of Digital Substations SC B5

PS3 - Integration of intelligence on substations (Joint PS with B3)

Q3.05 What are your expected benefits of using digital substation concepts and how to

measure if the benefits can be realized?

Birkir Heimisson - Iceland

LANDSNET

Benefits of Digital Substations (Q3.05)

Multi Vendor Fully Digital Substation at a Large Scale



Carbon Footprint



- Housing
- Material (e.g. copper)
- Travel and transport (gas, oil)



Safety



Personal



Testing



Flexibility

- Smart-grids
- Enhanced protection and control
- Refurbishment project

Group Discussion Meeting

Benefits of Digital Substations (Q3.05)



• Utilities Own Specifications

- Design
- Implementation
- Configuration



Time

- Faster building and refurbishment of substations
- Testing and commissioning
- Remote maintenance and testing



Reliability

Group Discussion Meeting

- Completely redundant protection and control systems
- Functions rather than devices
- Outageless maintenance
- Asset monitoring