PowerWeb
Intelligent, Integrated Energy Systems at TU Delft

Peter Palensky
TU Delft
Why are we here?

- What is PowerWeb?
- Invited Speakers
- Poster Session & Networking
The Energy System

Socio-technic system
- optimize economical operation
- optimize environmental effects
- provide consumers with choice

Energy management
- ensure reliability of supply
- ensure security of supply
- reconfigure to maintain QoS

Physical energy system
- Generate/distribute/store/use
- improve systems operations
- reduce environmental impact
The Energy System

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Industrial design

Policy analysis

Computer science

Mathematics

Control engineering

Electrical engineering

Mechanical engineering

Architecture

Technical University of Delft
PowerWeb at TU Delft

- Founded in 2012
- Ecosystem for Research and Development
- Help from Liander, TenneT, etc.
- Dozens of projects (national, H2020), invited lunch lectures, workshops with industry, etc.
Intelligence
Integration
PowerWeb Activities

- Industry Advisory Board
- PowerWeb Conference
  - 2017: Smart Grid Cyber Security
  - 2018: Integrated Energy Systems
- Invited Lunch Talks
  - monthly
- Projects
- Education coordination
- One-stop shop for Industry
Infrastructure

- TU Delft Electric Sustainable Power Lab
PowerWeb
Intelligent, Integrated Energy Systems

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