Q powel

Software for sustainable growth



Increasing asset flexibility through digitalization of optimisation and trading

Trond Straume, CEO Powel

Powel ownership - AFK Group in brief

10 main investments
81 companies
27 countries
+2200 employees
MNOK 4 906 revenues
MNOK 501 EBITDA



Task #2 Task #1 Move from analogue to Improve valuation and 1960. digital management of h forecasting of power Beuken-modellen 1960 electrical distribution generation networks

Nettmodellen 1959.

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20 years, with 50 years of history



More than **20** offices in **7** countries



55 MEUR revenue



400 employees



5th largest software company in Norway



No 1 in industrial IT in Norway

Why we are different



Our customers





Sustainability

Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

Source: Brundtland Commission of the United Nations, 1987

To prosper over time, every company must not only deliver financial performance, but also show how it makes a positive contribution to society

Source: Larry Fink, CEO BlackRock

Within the next 5 years **ALL** investors will measure company's impact on **SOCIETY**, **GOVERNMENT** and the **ENVIRONMENT** to determine their worth

Source: Larry Fink, CEO BlackRock





o Powel DNA



Optimisation of resources, assets and processes



Make advanced decision support available for operational use



Big data management for deeper insight

«A strategy of not making a premature decision but instead delaying commitment and keeping important and irreversible decisions open until the cost of not making a decision becomes greater than the cost of making a decision»

Mary Poppendieck

Task #1

Improve valuation and forecasting of power generation

"Making decisions at the last responsible moment"

Mary Ponnendieck



Maximize business value in power generation and trading

Market operations

Automation and efficiency

Predictions

Process efficiency

Short term optimization

Data quality

5%

expected gain

achieved gain

Expected total gains







Flexibility + exploit = fleXploit



Intraday precision 50 years of optimisation and physical models to improve earnings increased by



5 years with Alf of the rim ry greents and earnings



Combining optimisation and AI creates unprecedented results

Q powel

Task #2

Move from analogue to digital management of electrical distribution networks

"Making decisions at the last responsible moment"

Mary Ponnondiak



50 years of history – Digital management of electrical networks

planning	documentation	Maintenance	(ADMS)
	Asset da	atabase	

Minimizing costs for the electric grid industry

Average annual low voltage grid OPEX today

83

€/customer

Average annual low voltage grid OPEX tomorrow

58

€/customer

20 M€

Expected annual reduced cost



From desk to the field Enabled by automation, analytics and self-service









Powel – dedicated to industrial IT

- 1. Software as a Service (SaaS) strategy, with (3.
- 2. Dedicated Cloud Operations organisation
 - Continous testing and deployment
 - SLAs with 99.9x uptime requirements
 - 24/7 support

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- Delivered through Scalable Software Factory
- ISO9001: 2015 Quality Management
- ISO 27001 Information Security Management
- 4. R&D Centres in Norway, Sweden, Poland & Switzerland

"THE CUSTOMER AT THE HEART OF EVERYTHING WE DO"

