Edge computing practical value for energy grids

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Technolution

WISKUNDE NATUURKUNDE INFORMATICA PHASE TO PHASE

Redefining **solutions**



in Gouda (NL) since 1987

technology integrator 250 technology passionates

PHASE TO PHASE in Arnhem (NL) since 2001

state of art grid calculation 8 technology passionates

- **Revenue:** ~40M€ #17 in NL top 50 engineering firms
- **R&D:** 10-15% of revenue #29 in NL top 30 R&D

source: Technisch Weekblad



- **ownership:** 100% with mgt and active employees
- employee happiness: 8,5 out of 10, +44 Net Promotor Score



Technology integrator: we make new, open, secure connections ...

... between **digital** and ...

- ✤ (embedded) software
- privacy, security
- ✤ data communication
- hardware, electronics

... physical worlds



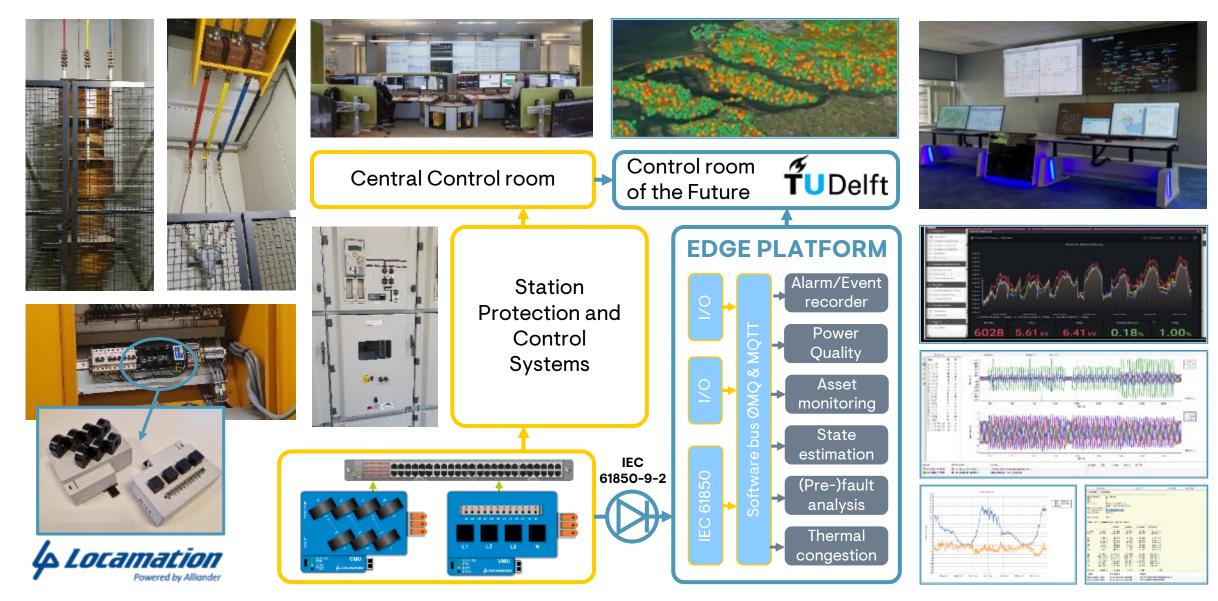
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mobility & infrastructure

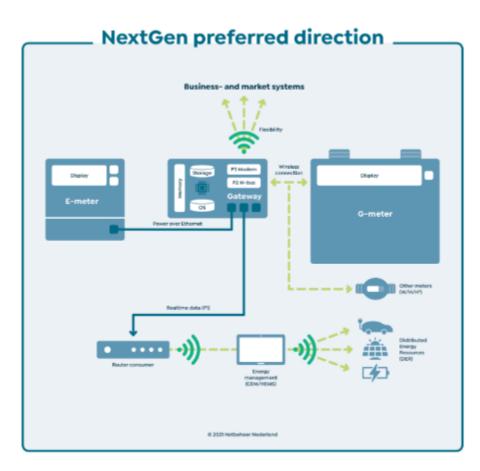
public safety & security



Edge computing embedded in automation: **Opening up the substation**



NextGen: modular concept for future Dutch smart meters







Netbeheer

Nederland

Direct **data governance** by citizens *demonstrator at GreenVillage TU Delft*



(2) The citizen allows access to data by installing 'apps' (level playing field) and giving goal binding mandates.



(1) All data resides on the smart meter in the citizen's house (data federation).



(3) Data is accessible in-house, for grid operators and market party's by citizen mandate ONLY.

Redefining solutions

