

Water & energy event: Innovative technologies for sustainable water authorities





E-Kite wants to eliminate the need for renewable energy subsidies

Our mission

"Enable profitable generation of electricity from wind without the aid of any subsidies or other incentives"

Our vision

"Develop kite power systems that can generate electricity at cost levels below those of fossil fuel-based technologies"



How a kite power system works

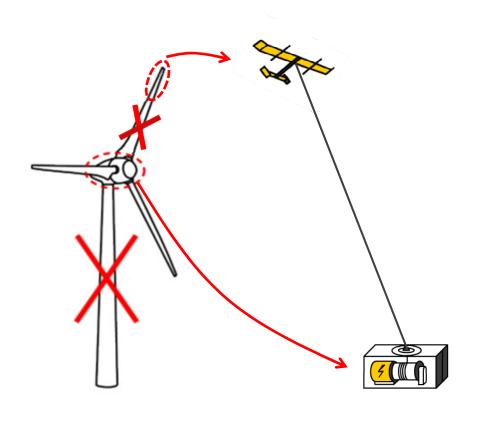


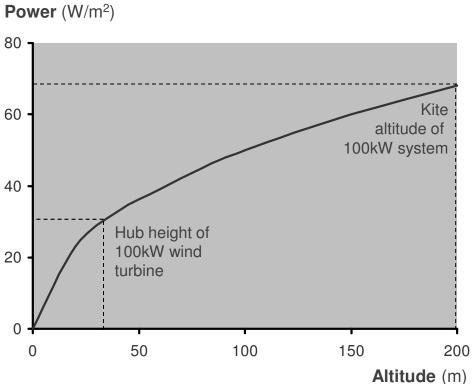


Kite power system provides energy at 50% lower cost than wind turbine

Lower investment costs

Higher electricity yields





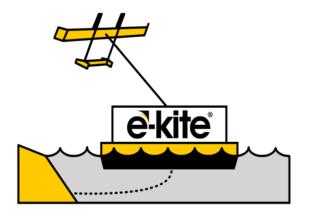


Other key advantages



Mobile system:

- Allows for installation at temporary sites or in remote locations
- Enables new business models (e.g., rental, temporary PPAs)



Offshore potential:

- Less not-in-mybackyard issues
- No need for costly offshore foundation
- Allows for deep sea installations



E-Kite team

Alfred van den Brink: Technical Director

- Experience: EWT, Johnson Controls, Eaton, SAGEM, AG Autogas
- Education: Automotive degree, MBA (Keele)

Max ter Horst: Business Director

- Experience: EWT, McKinsey, 3i, RWE
- Education: MSc Chemical Engineering (cum laude, best student), MBA (INSEAD)



Coert Smeenk: Lead Mechanical Engineer

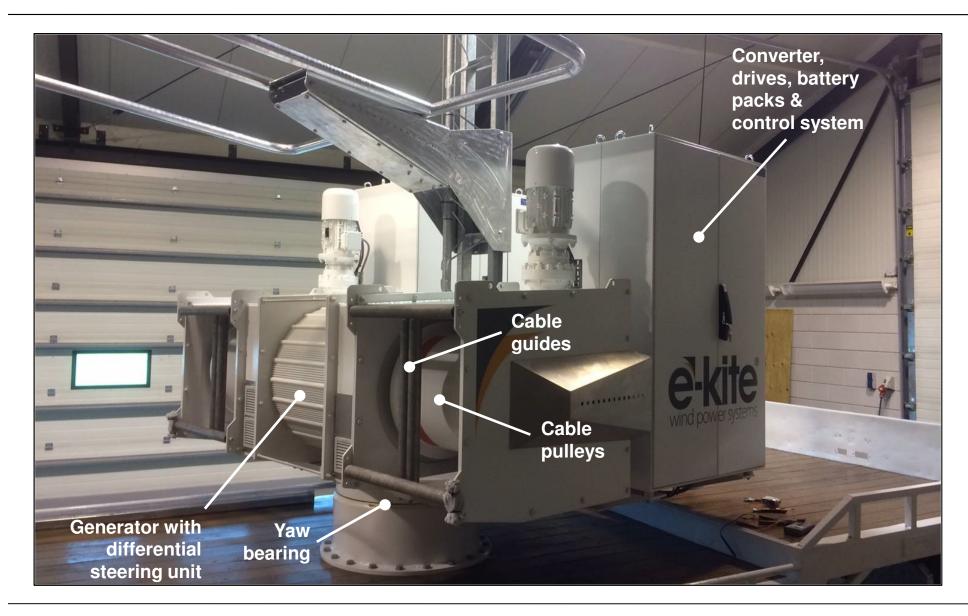
- Experience: EWT, USG Innoviv, Vormdrift
- Education: MSc Industrial Design

Bert Regelink: Lead Software Engineer

- Experience: EWT, SES New Skies
- Education: MSc Computer Engineering

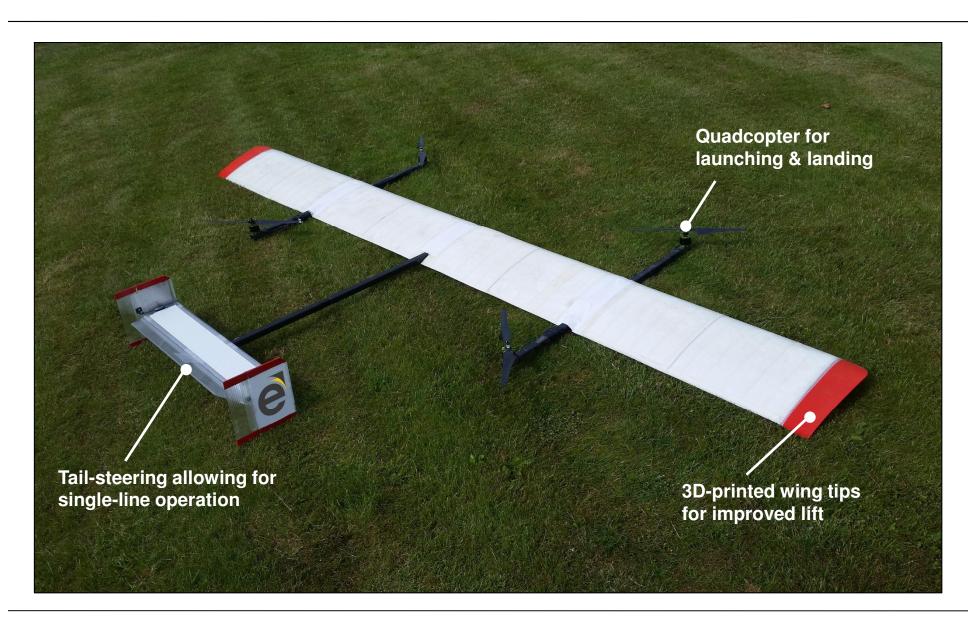


Prototype dual-line 50kW ground station





Ultra-light wing with integrated launch & land system



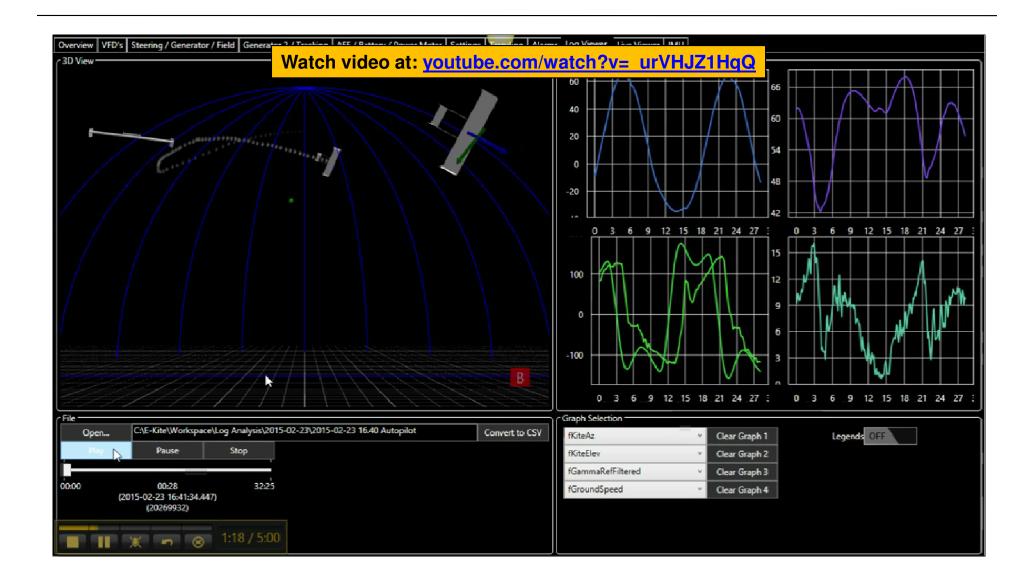


Flight with ultra-light wing





Control system user-interface





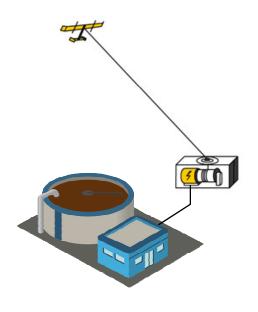
Artist impression of commercial single-line 100kW system





E-Kite wants to do pilot projects with water authorities to demonstrate its 100kW kite power system

Self-consumption by waste water treatment plant



- Waste water treatment plants often are located outside urban areas
- Stable baseload and flexible consumption maximizes offset with wind energy

Business case



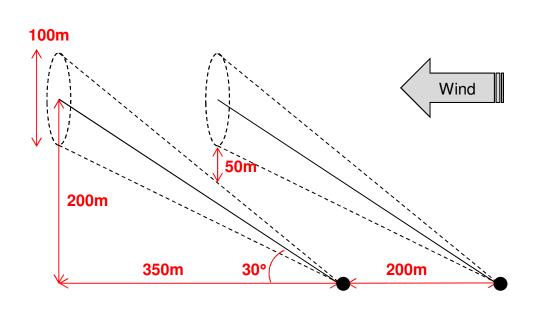
- Energy bill reduction by offsetting power consumption with wind energy production
- SDE+ subsidy over locally consumed and exported kWh's

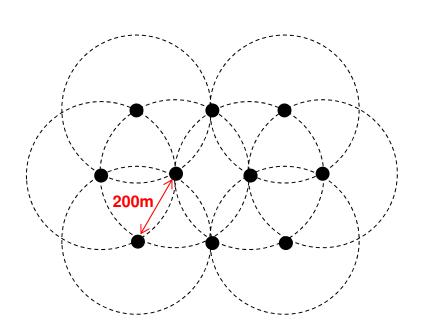


Required space for 100kW kite power systems

Minimum required spacing

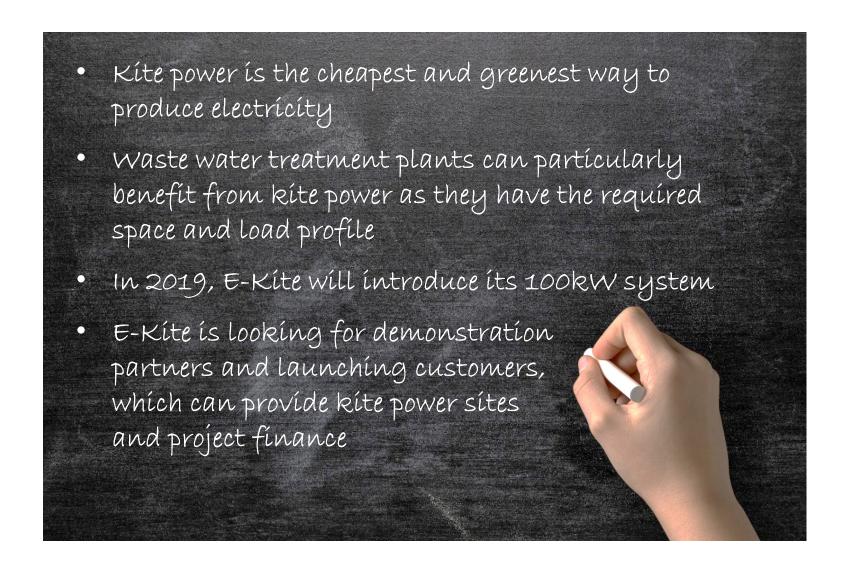
Optimal kite park set-up







Summary





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