Network Kites

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Safe

Windswept and Interesting are the only AWES operators approved to test inside an active ATCZ
No part of a network kite is susceptible to single point failure. Any failure will only degrade
performance. Network kite forms default to stable autonomous flight without needing control.

Simple

Rotary action stays in the power zone with a lifting kite. Rotor kites expand, spin & generate
torque. The torsion is reliably transferred over tense lines held apart by stiff light rings.
Individual kites in a lift kite network stay stable despite severe turbulence.

Scalable

100's of soft kites, can stack as a soft turbine giving cumulative rotary power output. Scaling by
network allows us to use standard & already optimised kites without mass scaling penalties.
Stretched lattice forms can be set to infill vast volumes and mount utilities in urban settings.

Efficient

Kite farms, with stacked rotors in lift networks have minimal land footprint. Array construction
is cheap and needs little room to develop. Packing volume is minimal, transport is easy. Stacked
kites have less line / kite surface & less lift / drag. Early system power density already ›150W / Kg