Open Hardware Opportunities

Windswept & Interesting

Tests in field array tethering for aggregate stability are showing good results. Windswept and Interesting has invested in a new test field site.
The kites in an isotropic mesh follow their locally available path, the net stabilises available deviation from best tether vectoring.
Isotropic mesh design offers a true hope of gigawatt scalable AWE

The stability afforded by top nets allows you to support many forms of AWE.
High degree of safety pushing new certification and insurability standards.

Network array tether lengths can easily be programmed for respose to local and net wind.
Steering of individual lifting kites is also maintained.

Steering from ground or pod or grouped & net sensing

The airborne components are made almost entirely of soft materials.
Cubic mass scaling is not a barrier.

Aggregate stability demo in Kangaroo FEM for field array of lifting kites

instructables
technology workshop living food play outside

Enjoy a nice cup of kite powered tea

Single unit Daisy generator
Total airborne mass 1.4kg
Power out @ groundgen ~200w

Safe & Easy launch and recovery

Appropriate visibility

First flying Daisy kite ring to generate power

360 x 180 tether guide for full mesh control from a single point

Isotropic mesh

Mesh position sensing for auto steering kixels (addressable kite pixels)

Grasshopper in rhino 3d for hugely extensile compatibility in hardware and analysis

Tangle resistant torque ladder with rigid blades

Lift and gen separate

Mixed array of weathercocking lift with rapid spin hard blades

Storage and maintenance access throughout operation.
No single point failure risk.

Continuous Rotary Output

Single skin scalability for Rings and lift

Finbox extrusion for harder tidal ring array

Control over netting
Cumulative steering via warp or bridle lines
Yaw stability and scalability from load path lines

Minimal impact

Many designs with auto sweep tracking as physically inherent without control overlay

Ring blades have less tether drag

Ganged and individual PTO options

Generation rings hoisted after lift is established

Airspace efficiency

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part of the kite power coop group