

R&D in wind turbine field, applied to materials, cycle production, aerodynamics, assembly system.

### Year 2006:

Blade for vawt of 1 kw, Innovation is the cycle production and materials used ( Ropatec, Italy):



Blade for vawt 2 kw; innovation is mould construction and material used (Metal Systems spa, Italy)

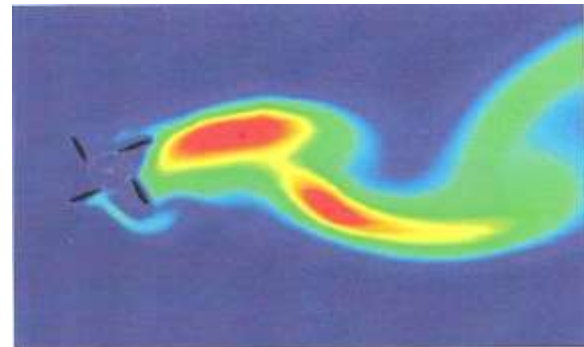
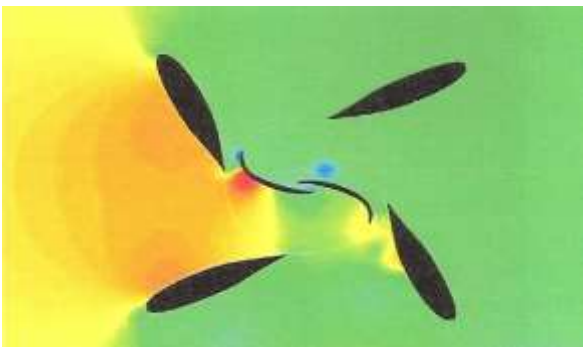
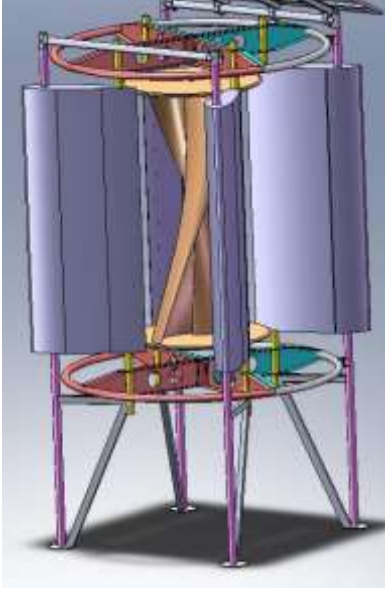


Blade for hawt 25 kw; innovation is mock-up material and root attachment type (TML, Belgium)

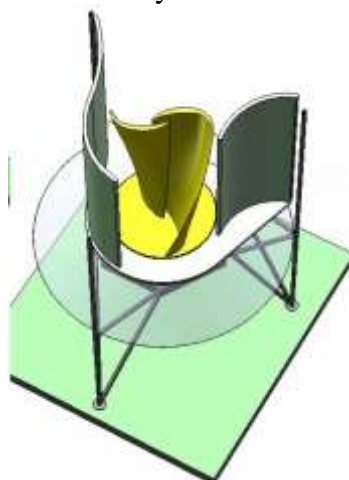


## Year 2007:

Blade for vawt 3 kw: innovation is assembly system and aerodynamics ( Green Tecno sa , Ch)

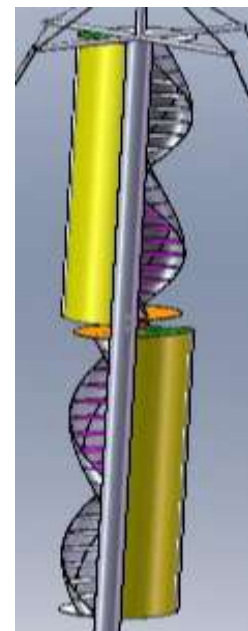
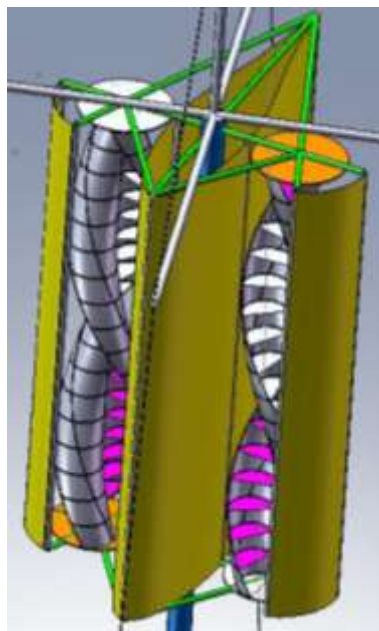
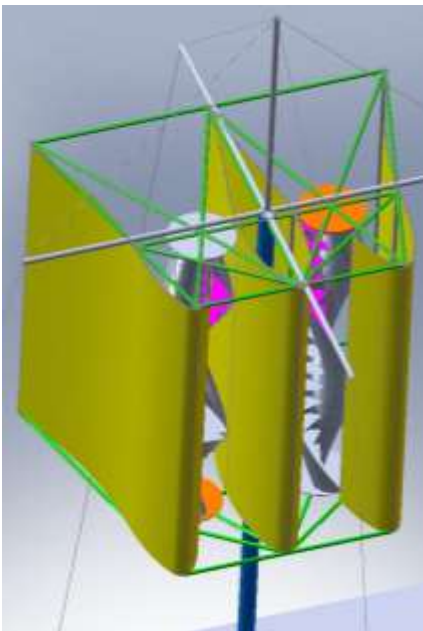
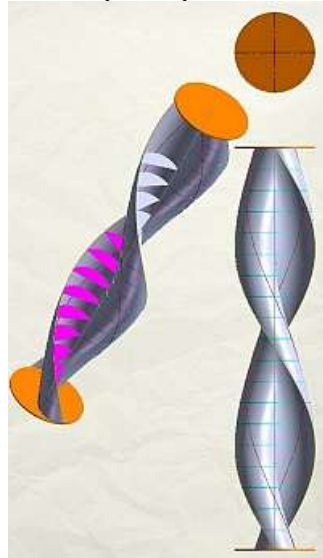


Blade for vawt 2 kw: innovation is aerodynamics and materials



## Year 2008:

Blade for vawt 1,4 kw: innovation is materials, structural part, assembly system , aerodynamics and generator type research and feasibility study



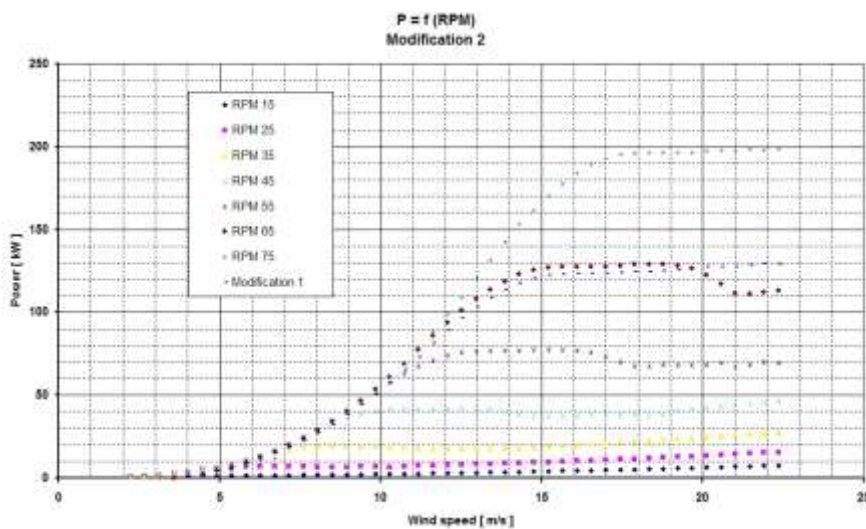


## Year 2009:

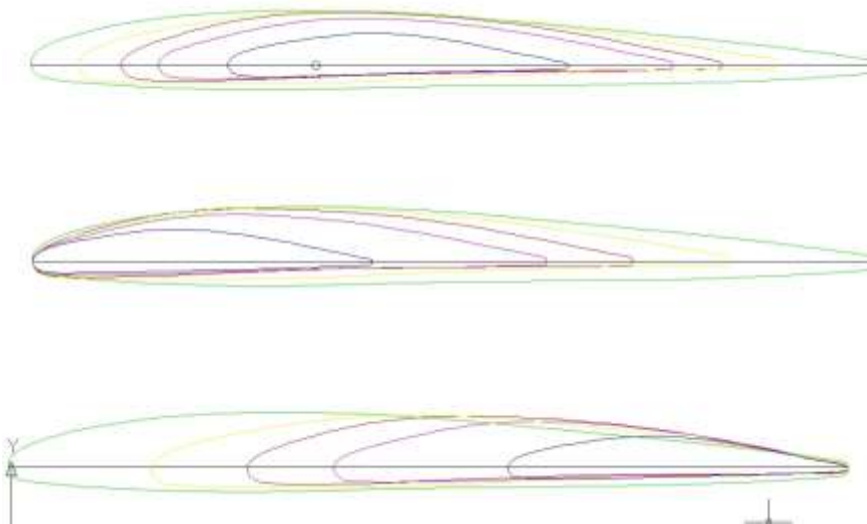
Blade for vawt 1,4 kw: test on truck with and without conveyor ( ARI Green Energy , USA)



Rotor system of Haws of 50 kw downwind: Aerodynamic and FEM design and analysis ( ARI Green Energy , USA)



Blade of a Hawt of 1 kw up-wind: aerodynamic , CAD design. Cycle production feasibility study.  
( ARI Green Energy , USA)

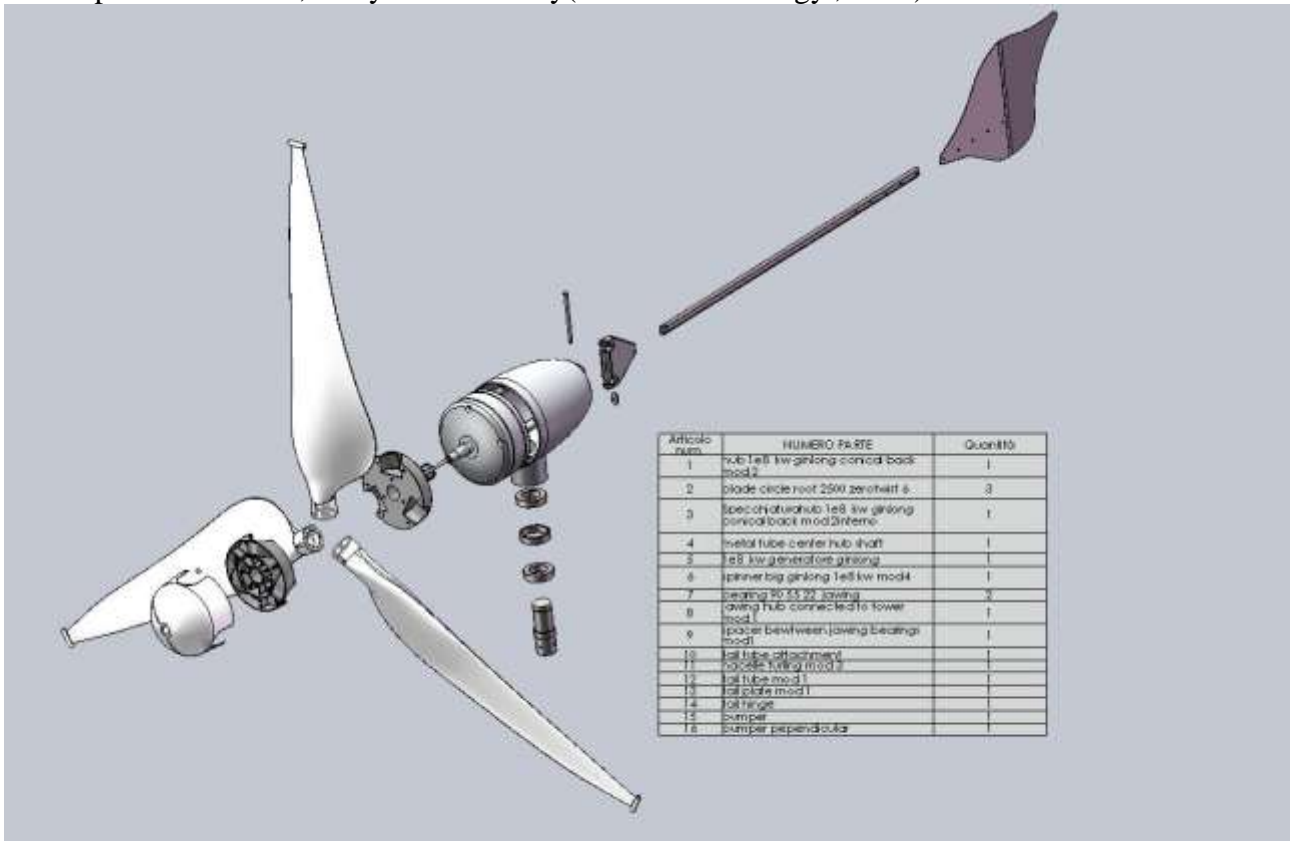


Rotor system of 1 and 3 kw Vawt Darreius type: design , FEM and prototype and test

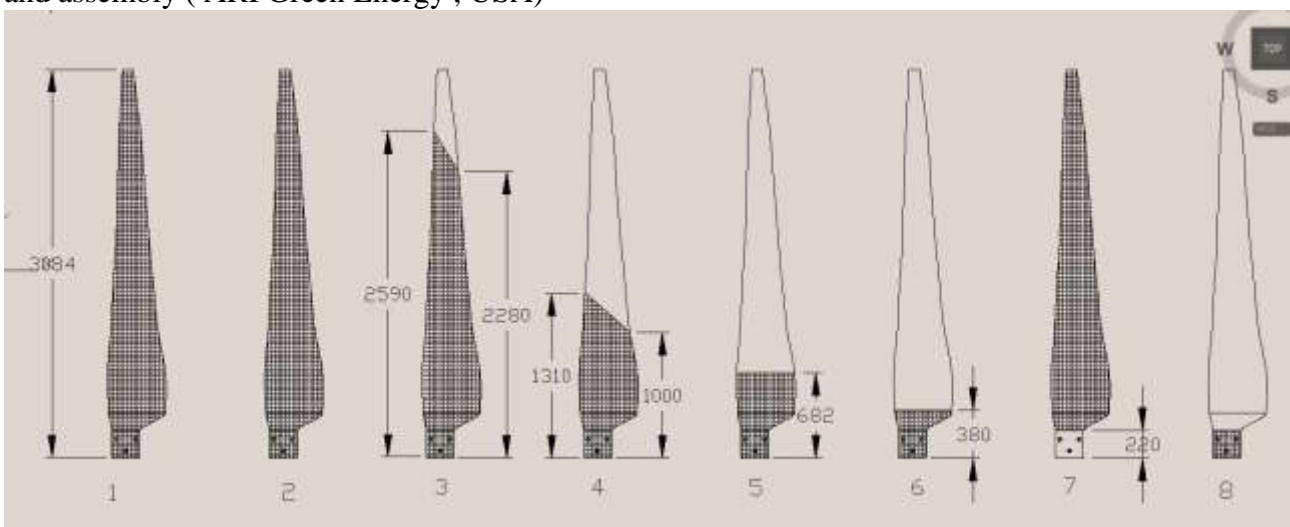


## Year 2010

Blade of a Hawt of 2kw up-wind: aerodynamic , CAD design. Cycle production feasibility with thermoplastic material , study and assembly( ARI Green Energy , USA)



Blade of a Hawt of 5kw up-wind: aerodynamic , CAD design. Cycle production feasibility study and assembly ( ARI Green Energy , USA)



Wind turbine design of 10 kw down-wind: aerodynamic , aerodynamic analysis, fem analysis, CAD design. Prototype production and test

