SOLAR CHIMNEY PROJECTS

Solar chimeys « VORTEX » type (rotational flow wirling system) are the only solution to replace actual electricity plants in term of power.
If such "vortex towers" are as powerfull as predicted, they probably shall replace actual solar chimneys as Spanish one in Manzanares (single flow upwind system) or even the future Australian one (1000 m high), less efficient.
Two engineers working separately have discovered the same technical solution: AEROTHERMAL POWER PLANT.
One of them is the French engineer Edgard NAZARE (see French patent N°1.439.849 – P.V. 983.953 dated 3rd of august 1964 in Paris and French patent N° 8.205.544 – publication number 2.524.530 dated 31st march 1982. Edgard NAZARE is dead on September 13th 1998.
The other is the Canadian Process Engineer Louis MICHAUD whose project is called A.V.E. power plant (Atmospheric Vortex Engine).
ADDRESS: Louis M. MICHAUD – 1269 Andrew court – SARNIA – Ontario – N7V 4H4 – CANADA. Phone: (519) 542.4464 – E mail: Louis.Michaud@sympatico.ca
Web page: http://vortexengine.ca

PROJECTS DESCRIPTION :
Nazare, venturi shaped tower is 300 m high and 300 m is also the diameter of the basis of the tower. The average power is 200 MW.
The A.V.E. power plant of Michaud is a cylindrical tower of 100 m high with a diameter of 400 m. The small hurricane generated in such tower is 50 m diameter and 20000 m high. The average power is also 200 MW.

Until now, the only solar chimney experimented is the Manzanares power plant built in 1982 (diameter 10 m, high 200 m, power: 50 KW.)
Russia seems also interested in such power plants: See Russian patents N° 1.319.654, 8th October 1985- N° 1.526.335, 25 march 1988 and N° 1.641.962, 27 jannuary 1991.
The Russian project confirm the interest of the rotational flow wirling system.
The 1000 m high Australian project (single flow upwind system) is forecasted as 200 MW of electrical power.
The Nazare venturi tower (rotational flow wirling system) is also forecasted as 200 MW of electrical power for a tower of only 300 m high.
Nazare announced much more power for higher towers: 1400 MW for a tower of 600 m high, for instance.

For further informations concerning NAZARE / MICHAUD project, please contact:
François MAUGIS – 7 route de Fontaine – 60300 MONTLOGNON – France.
Phone: 0627126914 – FAX: 0344581317 – E mail : energie.environnement@wanadoo.fr.
Web page in French : http://assee.free.fr/A06.html

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