SCIENCE DIMENSION 1983/6

powerful Darrieus built at the time, contributing 230 kW to the islands' diesel-electric grid. The idea with the Magdalen windmill was to use it as a supplementary rather than a sole source of power, a design feature that holds for ÉOLE, and for wind energy in general. The Magdalen turbine underwent 5 years of testing, modification, and further testing to explore the basic structural and aerodynamic characteristics of this type of machine. Many valuable lessons were learned, which later helped in the design of ÉOLE. (Now that the detailed experiments are finished, the turbine continues to contribute electricity to the Magdalen Islands grid.)

One argument heard during the oil crisis was that, since the total energy of the winds blowing over Canada

The design of the vertical axis wind turbine is inherently simple. Unlike conventional windmills whose blades turn only when facing the wind, the vertical axis windmill spins in winds from any direction.





At 108 m high, ÉOLE will be taller than the Peace Tower.

