



National Research Council
Canada

Conseil national de recherches
Canada

WIND ENERGY CONVERSION TECHNOLOGY (CONT'D)

TWO MECHANICAL ORIENTATIONS

1. HORIZONTAL AXIS - MUST BE ORIENTED TO WIND
(HAWT)
 - TALL TOWER
 - MAY REQUIRE PITCH CONTROL
2. VERTICAL AXIS - OMNIDIRECTIONAL
(VAWT)
 - SHORT TOWER
 - MACHINERY AT GROUND LEVEL
 - MAY REQUIRE GUY WIRES

ANNUAL AVERAGE WIND ENERGY DENSITY AT 50m ALTITUDE