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CANADIAN RESEARCH AND DEVELOPMENT EFFORT

HAS CONCENTRATED EXCLUSIVELY ON THE DARRIEUS TYPE

OF VERTICAL AXIS WIND TURBINE

YEAR	ENERGY CONTRIBUTION PJ/yr	
1990	2	64
2000	20	649
2020	100 ⁽⁶⁾	3200

- SIMPLER CONFIGURATION

- MORE COST EFFECTIVE

- RELATIVELY HIGH SPEED

- WELL SUITED TO ELECTRICAL GENERATION

- SELF REGULATING WITHOUT PITCH CONTROL

- CANADIAN LEADERSHIP IN TECHNOLOGY

NOTES (1) MEAN OF INDEPENDENT ESTIMATES BY S.C.C. & N.R.C.

(2) AVERAGE YEAR-LONG POWER OUTPUT OF 37 MW

(3) OUTPUT FACTOR IN TYPICAL (5000) WIND SPEED

(4) ASSUMES INSTALLED RATING OF 3.2 MW

(5) ESTIMATED AT \$6M AVERAGE FOR EACH OF 10 PREPARED

AND \$300/KW FOR PRODUCTION VERSION

(6) 100 PJ/YR REPRESENTS 25% OF THE 1980



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APPLICATIONS OF WIND ENERGY