Arctic Winds May Power Villages

Last October, four children from Kotzebue tacked a cardboard sail onto a sled and sailed across the Kotzebue Sound to the hunting camp at Sheshaulik. Strong winds often prevent aircraft from taking off or landing on aircting in Arctic villages.

on airstrips in Arctic villages.
Within a short period of time, the winds may mean something more to villages on Alaska Arctic Coast and Aleutian Chain than the whining, howling sounds of a stormy night.

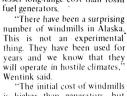
a stormy night.

A University of Alaska physicist, Professor Tunis Wentink,
Jr. of the Geophysical Institute,
has proposed that the remote villages harness the winds to produce electrical power.

Windmills have been used for

centuries by the Dutch to pump water and grind grain. They water and grind grain. They have been used to generate power for scientific stations in the Antarctic. A gigantic windmill constructed in Vermont during the Second World War generated some 1,300 kilowatts of power. Windmills have also been

used in Alaska, at Beechy Point, Anaktuvuk Pass, Wainwright.



Flat, and Kotzebue. Protessor Wentink feels that it is now possible to construct wind-driven generators in many villages at a lesser long-range cost than fossil

The initial cost of windmills is higher than generators, but

is higher than generators, but over a two-year period, one can pay off the cost of the wind-driven generators on a savings in oil costs alone," he added. . "In simple terms, windmills, in the long run, will be cheaper than diesel generators in the Arctic, especially in the remote villages." villages

The type of windmill that Professor Wentink has in mind for the villages is a small, six-

kilowatt, three-bladed device Over a one-year period, ac-cording to Wentink's calculations, the cost per kwh at a location such as Anaktuvuk Pass would be 43.9 cents, as opposed to an annual kwh cost for diesel fuel of 24.8 cents.

The savings are more evident in the long run, over a five-year period, when the cost for wind power drops to 8.8 cents per kil-owatt hour, with no reduction in the cost of diesel generated

power.

"Windpower is not for all the villages. Of course, it depends on the winds. Along the Aleutian Chain and the west and north coasts of Alaska, there is occurred to the windpower. no question that the windpower is a good thing to push," Wentink states.

With Wentink's proposal get-ting power to the villages should be a breeze.



CENTURIES OLD—Dutch windmills have been used since the fifteenth century to pump water and grind grain. The models proposed for use in

Alaska villages are much smaller and more stream-lined than the traditional windmill.



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This is the model which Professor Tunis Wentink, Jr. has proposed for use in Alaska's Arctic and Aleutian villages. The sixkilowatt model can pay for itself in fuel

savings alone over a two-year period. The Arctic Slope Corporation, the Arctic Slope Borough, and the State of Alaska are interested in Wentink's proposal