# ENERGY FROM THE

# WHY THREE **BLADES**?

Three blades is the best number for keeping the turbine moving efficiently - but not too fast to be out of control.

Turbines are a well-developed technology

Trained community

members perform frequent inspections Variable power source (weather changes)

# **HOW WINDY IS TOO WINDY?**

Wind turbines work **best** to generate electricity in wind speeds around **30mph**. When wind speeds are too high, the blades stop spinning to lower the risk of needing repair and to save the durability of the turbine.

> Long lifespan (avg 20 years)

Requires maintenance

ioto from Nome, AK



## WHY AM I NOT SEEING CHEAPER ENERGY WHEN THE BLADES ARE **SPINNING?**

It's complicated, but some of the factors include Power Cost Equalization reimbursements, utility expenses, policies, and not enough excess energy for additional electrical applications.



Additional energy storage may be required

#### WHAT CAN WE DO?

Talk with local & regional energy professionals in your community!

Ask your energy professionals about training to safely climb and work on technical components of turbines



### **DID YOU KNOW?**

Here's looking up from the **inside** of a 100kW turbine tower in Unalakleet





2









