

Intelligent Energy Systems: Anchorage, Alaska

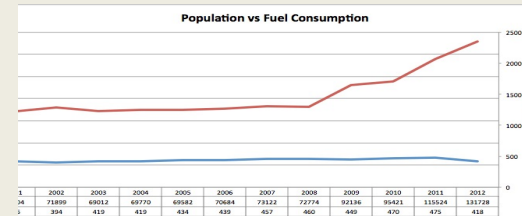


FROM THE FRONTIER TO THE FUTURE

One community at a time.

Things can't stay the same

**Must invest to
maintain quality of life**





Intelligent Energy Systems, LLC

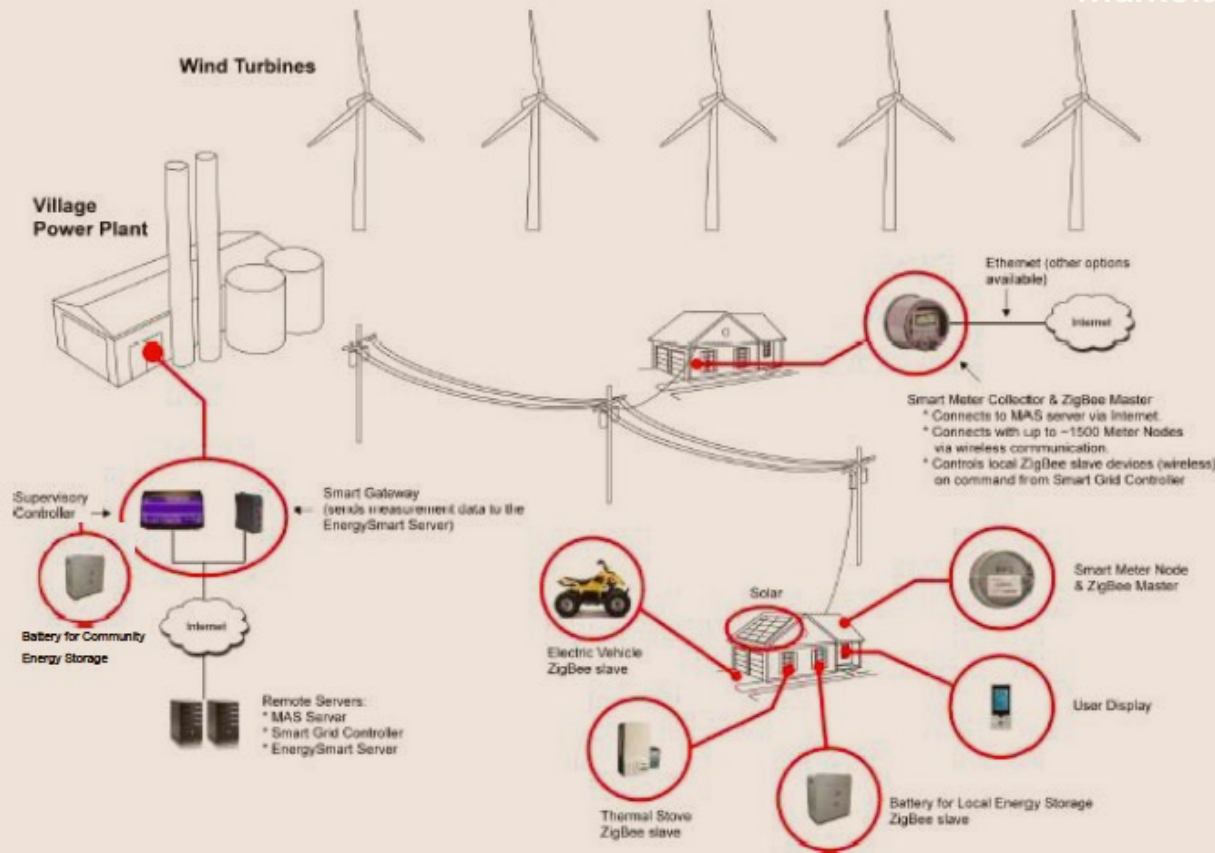
Hypothesis

- Renewable based microgrids
Common
- Deployments will accelerate,
number, scope, size
- Progress here has impacts

Markets:

Wind Turbines

Village
Power Plant



Hallucination

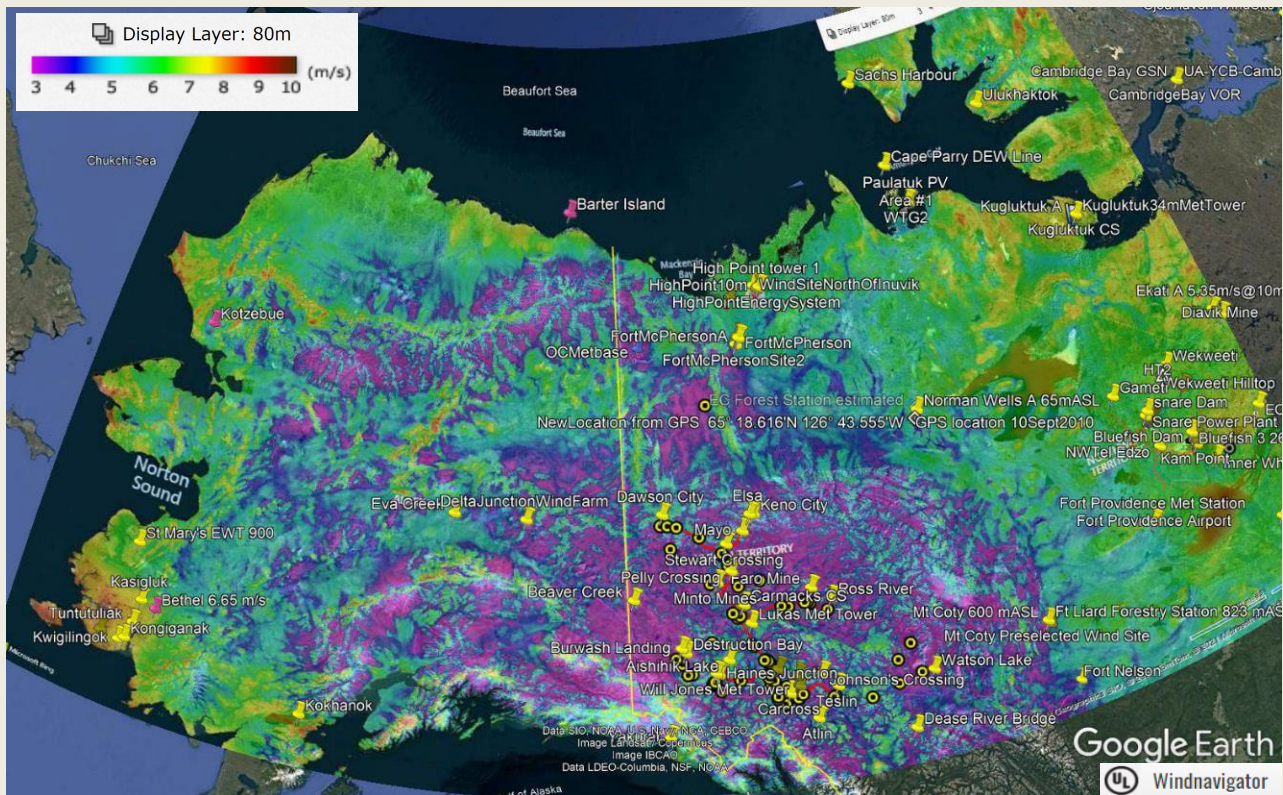
2003 =Reduce Diesel

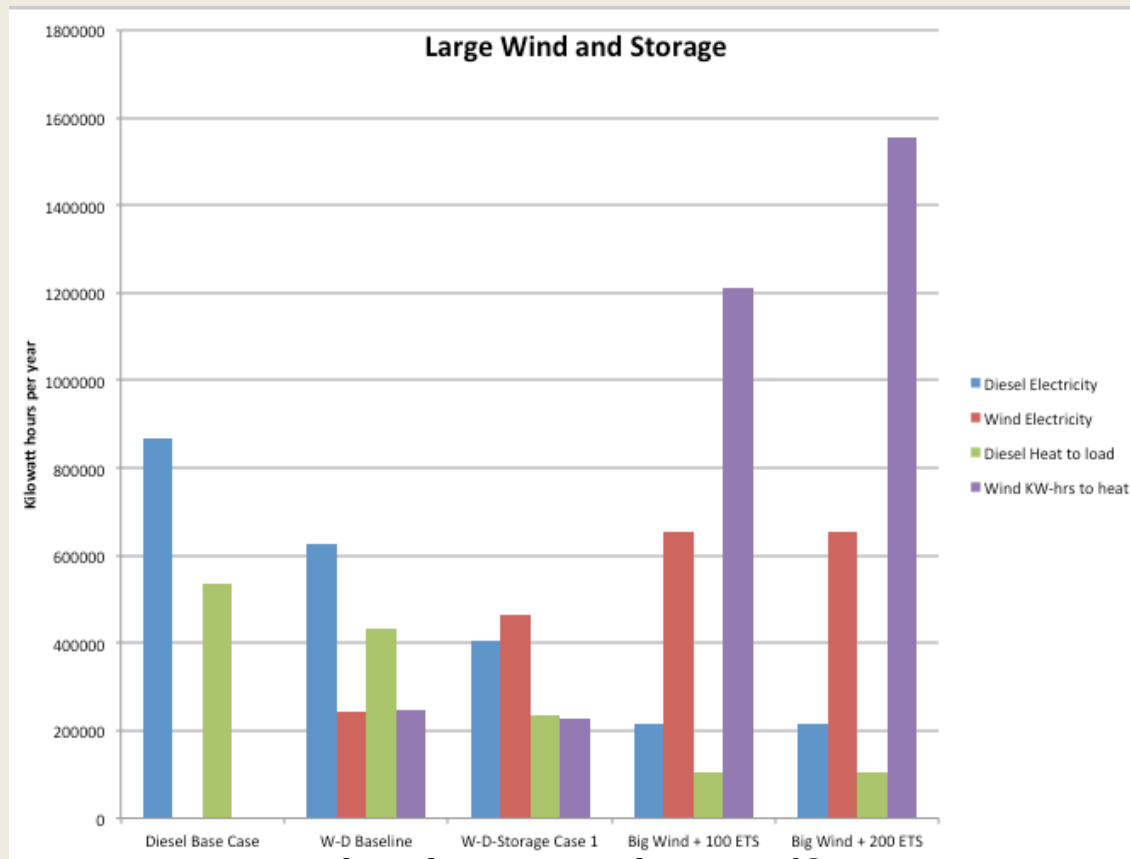
- Control/integration?
- Wind turbines?
- Wind Heat?
- Distribution ?
- Capacity?
- Funding?

2023 (100% Clean,
secure, resilient, cross
sector)

- Internet
- Energy Storage
- Heat
- Solar PV
- EV's
- Biz models
- Water
- Hydrogen

Why Wind





What have we learned?

Coherent Technology

- A family of appliances working together



Meaningful Projects/Jobs



Not just install a few solar panels



Learn by doing
And innovating

Lower Costs

- Increase deployment
- Expand Scope
- Grow Scale

Progress:

- Define state of the art
- Invest in reducing risk
- Generate a history of investment performance

Lessons:

Don't always assume, Remove roadblocks, Pull goalie

