Renewable Microgrid Town:
Gosnold MA
Microgrids

- **Cuttyhunk**: 200 bldgs, 350kw / 1000 kwh
- **Nashawena**: 1 bldg, 1 kw / 5 kwh
- **Pasque**: 1 bldg, 1.7 kw / 8 kwh
- **Penikese**: 2 bldgs, 1.3 kw / 1.5 kwh
- **Naushon**: 50 bldgs, 125 kw / 330 kwh
- **Nonamessett**: 2 bldgs, 2 kw / 10 kwh
SITING

- Orientation
- Location
- Ownership
- Visibility
- PV vs Wind
Construction
The Islands

Staffing & Maintenance

Vineyard Sound

Cuttyhunk Island

Cuttyhunk Pond

Buzzards Bay
Wrinkles

• Archaeo and Endangered spp reviews
• Cons Comm issues
• Internet connectivity / Speed / Reliability
• Energy conservation kills billings
• Avoid concrete pouring: Pound or drill
• Do local digging or others will pad bids
• Go big or go home… A big system is a happy one
• Insurance: who owns what when?
• Municipal procurement: Learn limitations
Management

- Adding complexity to an island system
- Oversize for winter to minimize run time and supervision
- Use squandered power (and SRECs) with dispatchable loads
- Requires duplicate installations...
- Losing population in mid winter
- MUST have simple operations...
- Good off-island monitoring
- MUST have good internet
- Got to have local person to run system: more distribution than local system.