Paul & Alice Neppel
Armstrong, Iowa

- NEG-Micon 1.5 MW Wind Turbine
- Erected on Family Farm
- Renewable Energy Grant of $402,500
- Total Cost = $1.62 million
CHALLENGES

• Interconnection Agreement
• Foundation
• Received wrong size hub (Was reimbursed for lost production)
• Some Interruptions the 1st Year

Avoid challenges by getting a first class contractor
Outcome

- 4,932,000 KWH Production for the first 12 Months
- Goal was 5,000,000
- Provides enough electric power for about 400 Iowa homes.
- Estimated ROI in 15 Years
Working Relationships

- Professional Grant Writer
- USDA Rural Development Staff
  - Attended Local Outreach Meeting
- Tom Wind – Wind Consulting
- Alliant Energy
- Contractor
- Banker
- Iowa Energy Center
Lessons Learned

• Power Purchase Agreement 1st
• Interconnection Agreement
• Keep Banker Informed
• Warranty & Maintenance Contract
• Utilize USDA Rural Development Renewable Energy Program
Positive Impacts

• Every Kilowatt goes in Local Grid
• Local workers are hired to maintain the turbine
• Area College put up a Turbine & Offers a Maintenance Course
• Reduced reliance on Foreign Oil
• Created Interest in others to put up their own Wind Turbines.