



Minnesota Municipal Power Agency

the power of your hometown

The Oak Glen Wind Farm Story

WPA All-States Summit

May 9, 2013



Presentation Outline

- MMPA Overview
- MMPA Wind Program
- Oak Glen Wind Farm
 - Contracting Approach
 - Financing
 - Community Relations
- Energy Education



MMMPA Overview



- Population Served: 125,000
- Retail Customers: 60,000
- Energy Sales: 1,483,000 MWh
- Peak Load: 314 MW



MMMPA Wind Program

- Hometown Wind
- Oak Glen Wind Farm

Focus on:

- Financial Approach
- Community Relations



Hometown Wind

- 12 160 kW Turbines
- MMPA – First (and only) Agency to Have a Turbine in Each Member Community
- Financed with CREBs
- Educational Signage
- Coordinated with Members on Siting





Oak Glen Wind Farm

- 44 MW Wind Farm in Steele County, MN
 - 24 1.8 MW Vestas Turbines





Contracting Approach

- Instead of a Lump Sum Contract, a Guaranteed Maximum Price Contract was Executed that Provided for Savings below the GMP to be Shared Between MMPA and the Contractor
 - Aligned the Incentives of Both Parties
 - Fostered More Collaborative Relationship
 - Project Came in Under Budget and Early



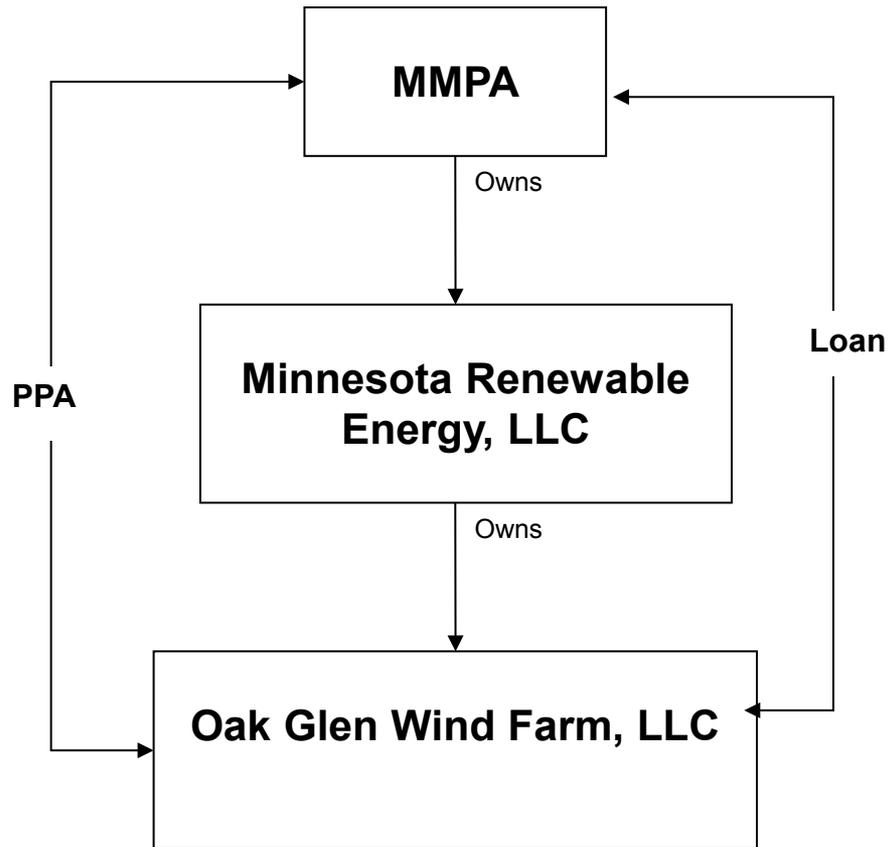
OGWF Financing

Approaches Considered

- Traditional Debt Financing
- Power Purchase Agreement with Developer
- Tax Equity Deal with Bank
- Blocker Entity



OGWF Structure





Oak Glen Wind Farm

- OGWF Received \$25.4 Million 1603 Grant
- MMPA Has Right to Dispatch and Curtail Plant
 - Useful When Prices Go Negative



Oak Glen Wind Farm

Community Relations

- Focus on Landowners, County Officials, other Stakeholders
 - Exceeded Required Setbacks for Non-Participating Landowners
 - Mitigated Turbine Noise and Flicker via Placement
- Result: No Opposition to Project



Oak Glen Wind Farm

Community Relations

- Grand Opening Event
 - Included Lunch for the Host Community, Narrated Bus Tours of the Project
- One-Year Anniversary Celebration
 - Presented City with Gazebo with Educational Signage



OGWF Grand Opening





OGWF Grand Opening





OGWF One-Year Anniversary





OGWF One-Year Anniversary





OGWF One-Year Anniversary





Energy Education

- Developed Fourth Grade Energy Education Curriculum
- Includes Providing Lunch and Tour of FEP Facility to Member and Host Community Schools
- Pre-Tour Workbook Provided with Information on Conventional and Renewable Energy Sources

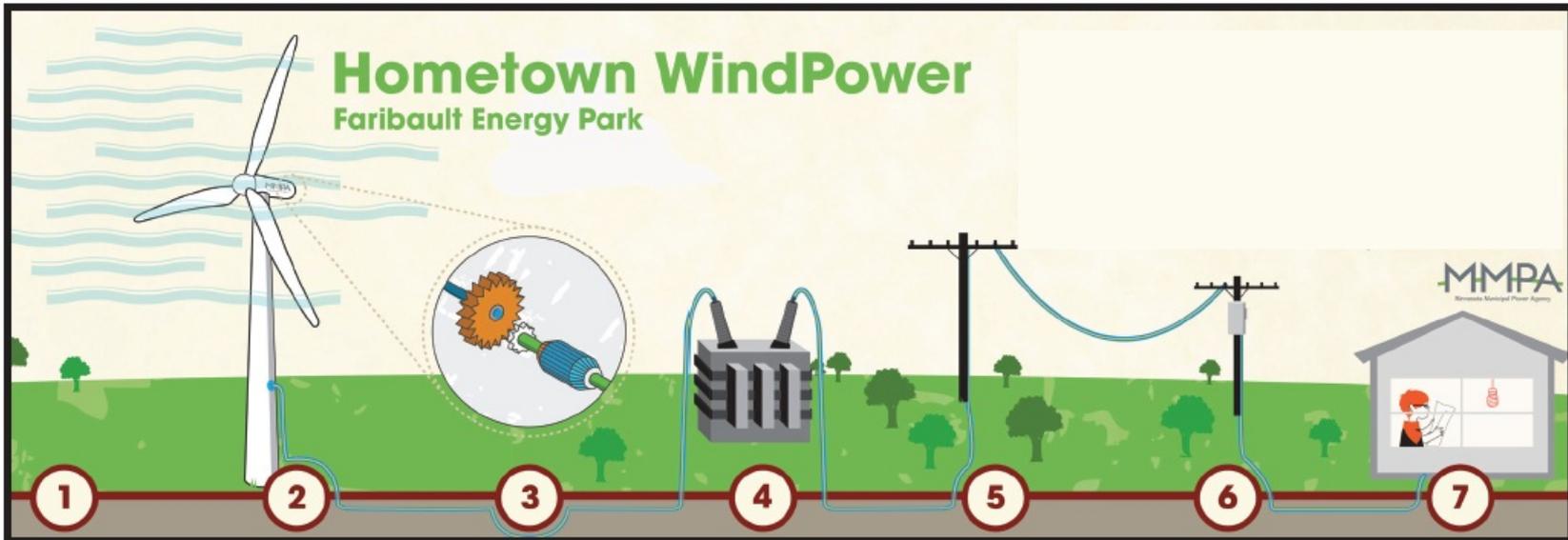


Energy Education

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Wind Energy

How Hometown Wind Turbines Power Your Home



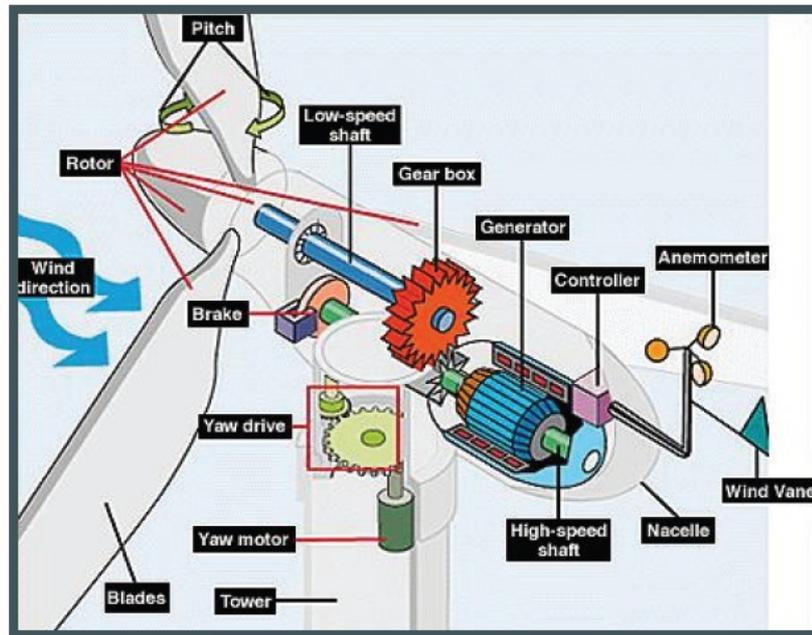


Energy Education

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Wind Energy

Inside a Wind Turbine: Glossary Terms



Graphic and Terms Provided by the U.S. Department of Energy, Wind & Hydropower Technologies Program.



Energy Education



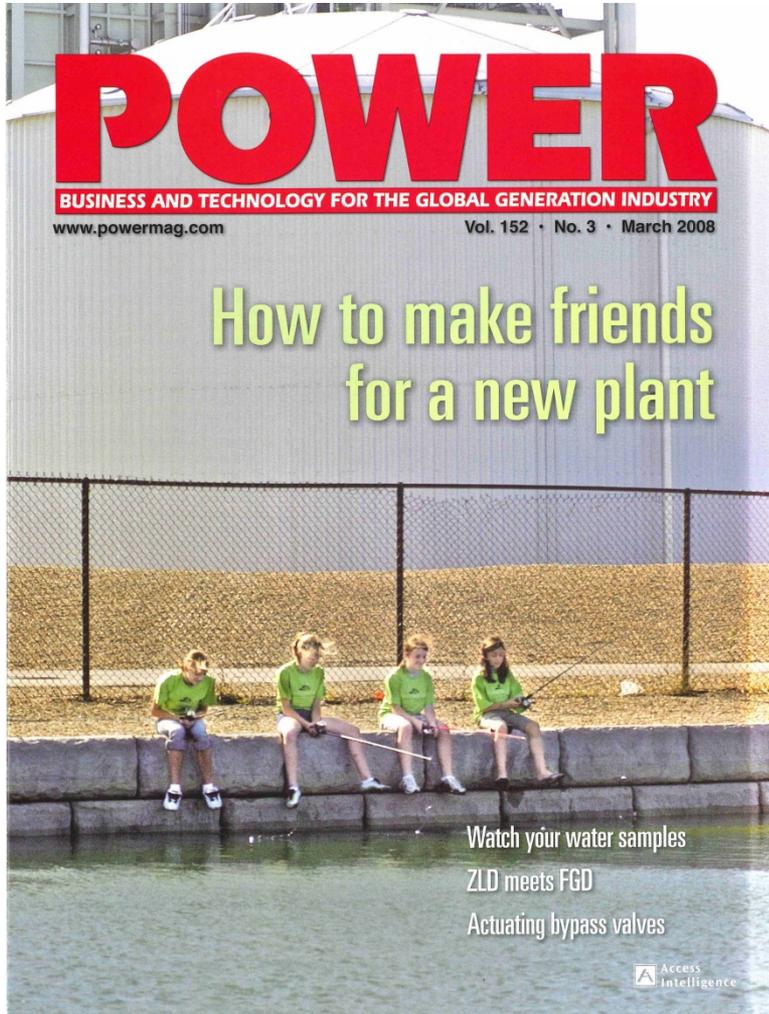


Energy Education





Faribault Energy Park



- Observation Room
 - Signage/Videos
- Wetlands with Fishable Ponds
- Walking Trail



Conclusion

- Success Can Be Defined in Many Ways
 - Financial Outcomes
 - Community Support
 - Longer-Term: Engaging Young Minds
- MMPA Is Focused on Being a Good Neighbor in Both Member and Project Host Communities



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