

# Planning for Wind Energy

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# Wind Energy in Manitoba

- Manitoba is well positioned to be a global leader in wind generation
- Manitoba has a world class wind resource and accessible sites.
- Wind is one of the most competitive forms of renewable energy, and the sector is a growth industry.



# Manitoba's Wind Development Strategy

- 2002 - Province and Hydro announced a wind monitoring study for Manitoba.
- 2004 - Province announced first wind farm, to be established in St. Leon.
- 2005 - Province announced goal of developing 1,000 megawatts (MW) of wind within the next decade, with 50 additional MW allocated to smaller wind projects.
- 2007 – Hydro issued request for proposals for new projects totalling 300 MW.

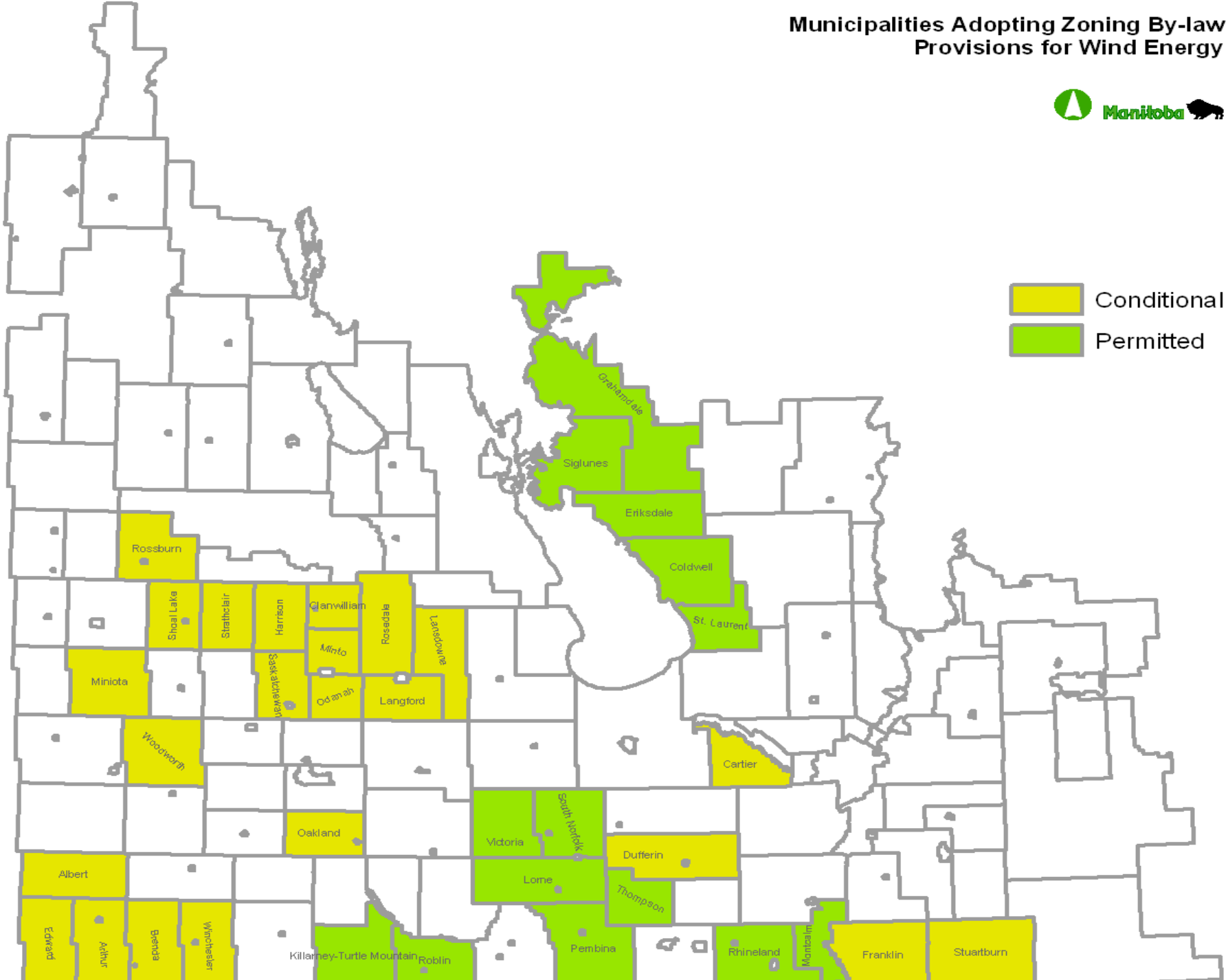
# Direct Economic Impacts

- 300 MW wind farm would involve a capital investment in excess of \$600 million
- Would generate enough electricity for 90,000 homes.
- 1000 MW wind energy expected to generate \$2 billion in investment, \$100M in wind-rights payments to land owners and \$150M in property taxes to municipalities.

# Planning Ahead

- Municipalities and planning districts that have planned ahead for wind energy will be better positioned to accommodate this economic opportunity.
- Wind energy projects are a land use that must conform to municipal development plan policies and zoning standards.
- Each community will need to determine its level of acceptance and requirements for wind energy.

# Municipalities Adopting Zoning By-law Provisions for Wind Energy



# Considerations

- **Open planning process** to build social acceptance.
- **Clear policies** that provide a framework for evaluating individual wind energy proposals.
- **Technical standards** that protect public health and safety.

# Top of Mind Issues

- Noise from rotors
- Safety considerations
- Agricultural Practices
- Visual Impacts
- Wildlife impacts



# Obtain the Best Available Information

- Technical and Scientific information available through:
  - Manitoba Science, Technology, Energy and Mines  
<http://www.gov.mb.ca/est/energy/wind>
  - Canadian Wind Energy Association  
<http://www.canwea.ca>
- Background studies produced by wind energy proponents for environmental approvals (e.g. noise studies).
- Benefit from experience of other jurisdictions.

# Planning Partners

- IGA will continue to assist individual planning districts and municipalities with land use policies for wind energy.
- IGA also is committed to working with AMM and its members on promoting best practices in planning for wind energy.

