

Summary of Michigan Wind Project Interconnection Requests

Presented to the Wind Energy Resource Zone Board

By Sally Talberg
Public Sector Consultants Inc.
April 27, 2009

Data Sources and Disclaimers

- Information from publicly available queue data from Midwest ISO and distribution utilities
 - Data for distribution-level interconnection from early to mid-March 2009 as reported in MPSC Case No. U-15113; requests below 3 MW not included
 - Data from Midwest ISO as of April 22, 2009
 - No wind requests in PJM queue as of April 22, 2009
- Few clarifications and corrections based on discussions with Midwest ISO and utility staff and additional research

Queue Requests by RTO or Distribution Utility*

| RTO/Utility | Number | Megawatt (MW) |
|------------------------------|---------------|----------------------|
| Midwest ISO | 23 | 2,753 |
| PJM | 0 | 0 |
| Detroit Edison Company | 5 | 234 |
| Consumers Energy Company | 1 | 80 |
| Other Distribution Utilities | 0 | 0 |
| Total | 29 | 3,067 |

* Active and completed interconnection requests. Projects below 3 MW are not included.

Active and Completed Requests, by Region

| Area | Number | Megawatt (MW) total | Avg. MW |
|--------------|-----------|---------------------|------------|
| Central | 3 | 620 | 207 |
| Thumb | 10 | 903 | 90 |
| West | 15 | 1,344 | 90 |
| UP | 1 | 200 | 200 |
| Total | 29 | 3,067 | 106 |

Wind Interconnection Requests (Active and Completed), by Size

| Megawatt (MW) Range | Number |
|---------------------|-----------|
| Small (0–99) | 15 |
| Medium (100–199) | 9 |
| Large (200+) | 5 |
| Total | 29 |

Wind Interconnection Queue Summary, by Status*

| Status | Number | Megawatt (MW) |
|--|--------|---------------|
| Active/under study | 24 | 2,660 |
| Interconnection agreement filed/executed | 6 | 407 |
| Suspended | 1 | 140 |
| Under construction | 1 | 36 |
| In-service** | 5 | 130 |
| Withdrawn*** | 11 | 1,150 |

* Includes requests to interconnect to the transmission and distribution systems.

** Includes installations in Traverse City and Mackinaw City.

*** Includes DE0503 (50 MW project) in Detroit Edison Company queue.

Requests under Study, by Status

| Study Status | Number | Megawatt (MW) |
|------------------------------------|---------------|----------------------|
| Feasibility | 6 | 278 |
| System Planning and Analysis (SPA) | 1 | 200 |
| Definitive Planning Phase (DPP) | 7 | 698 |
| Facility Study | 1 | 100 |
| Parked | 9 | 1,384 |
| Total | 24 | 2,660 |

Conclusions

- Largest number and MW capacity in West Michigan, followed by the Thumb area
- Large range in project size (3–300 MW), with average approximately 100 MW
- Significant number of withdrawn projects and “parked” projects
- Requests in queue change over time and are one indicator of potential development