

*Massachusetts Wind Working Group – February 21, 2007 meeting
Ed Kremzier’s Talking Points*

Two issues for discussion; Status of Wind Projects connected to National Grid transmission and interconnection jurisdictions

Two wind projects on today’s agenda illustrate the range of interconnection challenges posed by different sized projects.

Hull Municipal Light Department

- Served by two dedicated 23kV lines from East Weymouth substation.
- Current wind generating capacity in Hull totals ~2.5MW.
- No adverse impacts to the 23kV system and no upgrades needed.
- Hull Municipal handled all aspects of the interconnection with limited National Grid input.

Hoosac Wind Project

- 30MW Wind Farm located remotely from transmission
- Local distribution could not accept entire output
- Interconnection proposed to consist of
 - 5.5 miles of new 34.5kV line to be owned by National Grid on public Rights of Way
 - 34.5kV/69kV substation owned by Hoosac Wind proponent
 - Attachment to existing 69kV line owned by National Grid

A good rule of thumb illustrated by these installations is that 6-8 MW of generation can be connected to a 13.8kV 3-phase mainline, double that for 23kV and almost double again for 34.5kV. Larger installations likely require system upgrades.

Interconnection Jurisdictions

- Refer to back of today’s agenda
- Federal vs state (MA) category primarily driven by transmission vs distribution system capabilities
- Progression of studies leading to an interconnection agreement is similar
- Fran Cummings’ presentation contains contacts at MA investor-owned utilities
- Dave Forrest spoke of NEPOOL approvals and ISO marketing
- Two other early considerations are whether to sell to the local utility and what the interconnection ownership arrangements will be.

