Local Issues
Little Round Top, Gettysburg, Pennsylvania
Wormleysburg, looking towards Harrisburg, Pennsylvania. In the background is First Mountain, part of the Allegheny Mountain ridge running from Pennsylvania to Tennessee.
The people have a right to clean air, pure water and to the preservation of the natural, scenic, historic and esthetic values of the environment. Pennsylvania’s public natural resources are the common property of all the people, including generations yet to come. As trustee of these resources, the Commonwealth shall conserve and maintain them for the benefit of all the people.
Subchapter G. COMMISSION REVIEW OF SITING AND CONSTRUCTION OF ELECTRIC TRANSMISSION LINES

§§ 57.71 – 57.77 (excerpt):

Authority

The provisions of this Subchapter are issued under the Public Utility Code, 66 Pa. C.S. § 319, 320 and 322, unless otherwise noted.

Purpose of Subchapter

Public hearings providing for opportunities to become involved in reviewing and commenting on electric transmission line or related construction of the Pennsylvania Public Utility Commission, 66 Pa. C.S. § 322(b) (April 19, 1969).

§ 57.71. Application.

(a) The application for public utility commission approval to locate and construct an electric transmission line or related construction shall be made by the applicant to the commission for review and approval.

(b) The application shall include a statement of the purpose of the proposed electric transmission line or related construction, the proposed location of the transmission line or related construction, and such other information as may be required by the commission to determine the adequacy of the application.

(c) The commission shall issue a certificate of approval for the proposed electric transmission line or related construction if it finds that the proposed electric transmission line or related construction is in the public interest.

(d) The commission shall issue a certificate of approval for the proposed electric transmission line or related construction if it finds that the proposed electric transmission line or related construction is in the public interest.
Regional Issues
Figure 2.2-3 Contour Map of Annual Load Weighted LMP

Source: 2006 Midwest ISO-PJM Coordinated System Plan
"I think you should be more explicit here in step two."

From the New Yorker magazine, reprinted with permission
National Issues
Transmission for 20% Electricity From Wind

Wind Power Classification

<table>
<thead>
<tr>
<th>Wind Power Class</th>
<th>Resource Potential (W/m²)</th>
<th>Wind Power Density at 50 m (W/m²)</th>
<th>Wind Speed a at 50 m (m/s)</th>
<th>Wind Speed a at 50 m (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Marginal</td>
<td>200 - 300</td>
<td>6.6 - 6.4</td>
<td>12.6 - 14.3</td>
<td></td>
</tr>
<tr>
<td>3 Fair</td>
<td>300 - 400</td>
<td>6.4 - 7.0</td>
<td>14.3 - 15.7</td>
<td></td>
</tr>
<tr>
<td>4 Good</td>
<td>400 - 500</td>
<td>7.0 - 7.5</td>
<td>15.7 - 16.8</td>
<td></td>
</tr>
<tr>
<td>5 Excellent</td>
<td>500 - 600</td>
<td>7.5 - 8.0</td>
<td>16.6 - 17.9</td>
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</tr>
<tr>
<td>6 Outstanding</td>
<td>600 - 800</td>
<td>8.0 - 8.8</td>
<td>17.9 - 19.7</td>
<td></td>
</tr>
<tr>
<td>7 Superb</td>
<td>800 - 1000</td>
<td>8.8 - 11.1</td>
<td>19.7 - 24.9</td>
<td></td>
</tr>
</tbody>
</table>

a Wind speeds are based on a Weibull K value of 2.0

The remaining states use data from the 1987 "Wind Energy Atlas of the United States".