

Steps for School Turbine Project Development

1. Energy Audit
2. Energy Conservation Options
3. Site selection
4. Measuring wind
5. Wind resource assessment
6. Turbine and tower selection
7. Power production estimate
8. Cost estimate/budget
9. Local Issues
 - a. Approval (school board and county/town)
 - b. Permitting/Zoning
 - c. Community Acceptance
10. Fundraising, donations and grants
11. Installation Logistics
 - a. Choosing an installer
 - b. Foundation design
 - c. Electrical connection
 - d. Grid connection/net metering
12. Turbine Procurement
13. Construction and Contracting
14. Operations and Maintenance
15. In the classroom
 - a. Understanding wind energy and turbines
 - b. Real-time data in the classroom – assessing your wind resource
 - c. Calculating capacity factor
 - d. Impacts of weather on turbine performance
16. Assessment and evaluation