Department of Energy and Environment

Kim M. Wissman

National Association of Regulatory Utility Commissioners

Ohio Public Utilities Commission

Energy and Environment

The Department of Energy and Environment conducts technical analysis, environmental review and field investigations to assure energy availability produced from all available fuel sources to the consumers of Ohio and the region. E&E processes electricity forecast cases, integrated resource planning, energy efficiency and portfolio compliance requirements, produces independent forecast reports of demand for energy in Ohio, participates in federal and state investigations regarding energy policy, delivery and reliability. And provides policy and analytical support for the Commission and others on energy issues. Also housed within the Department of E&E is the staff for the Ohio Power Siting Board and the Ohio Biomass Energy Program.

Staff Qualifications

- Mechanical Engineering
- Electrical Engineering
- Environmental Science
- Masters Environmental Economics
- Education
- Economics
- Sociology
- Geology
- PhD Industrial and System Engineering
- Chemical Engineering
- Chemistry
- Mass Media and Organizational Communications
- Natural Resources
- Electronic Engineering Technology
- International Business
- Physics
- Government
- Masters City and Regional Planning
- Real Estate
- Environmental Biology
- Meteorology
- Oceanography
- Petroleum Engineering
- Finance
- Botany
- Business Administration and Marketing

Director's Office

- Administrative Requirements
- Human Resources
- Legal and Policy Analysis
- Performance Management
- Billing
- Intranet
- Internet

Planning and Market Analysis

- Retail Market Monitoring
- Wholesale Market Monitoring
- Long Term Forecasting
- Modeling
- Price Projections
- Capacity and Energy Auctions
- RTO Efforts
- SmartGrid

Energy Efficiency and Renewables

- Energy Efficiency Programs and Contracts
- Demand Side Management Programs
- Renewable Energy Efforts
- Renewable Energy Credits
- Capacity and Energy Auctions
- SmartGrid

Facilities, Siting and Environmental Analysis

- Transmission Reliability and Performance
- Environmental Policy and Energy Implications
- Technology Analysis and Advancement
- Energy Assurance
- Siting
  - Gas Transmission Siting
  - Electricity Transmission Siting
  - Generation Siting

Ohio Power Siting Board Process

National Association of Regulatory Utility Commissioners

Ohio Public Utilities Commission

Mission Statement

To support sound energy policies that provide for the installation of energy capacity and transmission infrastructure for the benefit of the Ohio citizens, promoting the state's economic interests, and protecting the environment and land use.

Member Agencies

- Public Utilities Commission of Ohio - Chairman
- Ohio Environmental Protection Agency
- Ohio Department of Development
- Ohio Department of Health
- Ohio Department of Agriculture
- Ohio Department of Natural Resources
- Public Member
- Four Legislative Members
  - 2 from Ohio House of Representatives
  - 2 from the Ohio Senate

Balancing of interests is successfully achieved through active participation of the member agencies that comprise the Board

Board Jurisdiction

Major Utility Facility

- A generating plant of 50 megawatts or more;
- An electric transmission line of 125 kilovolts or more; or
- A gas or natural gas transmission line capable of transporting gas at more than 125 pounds per square inch of pressure

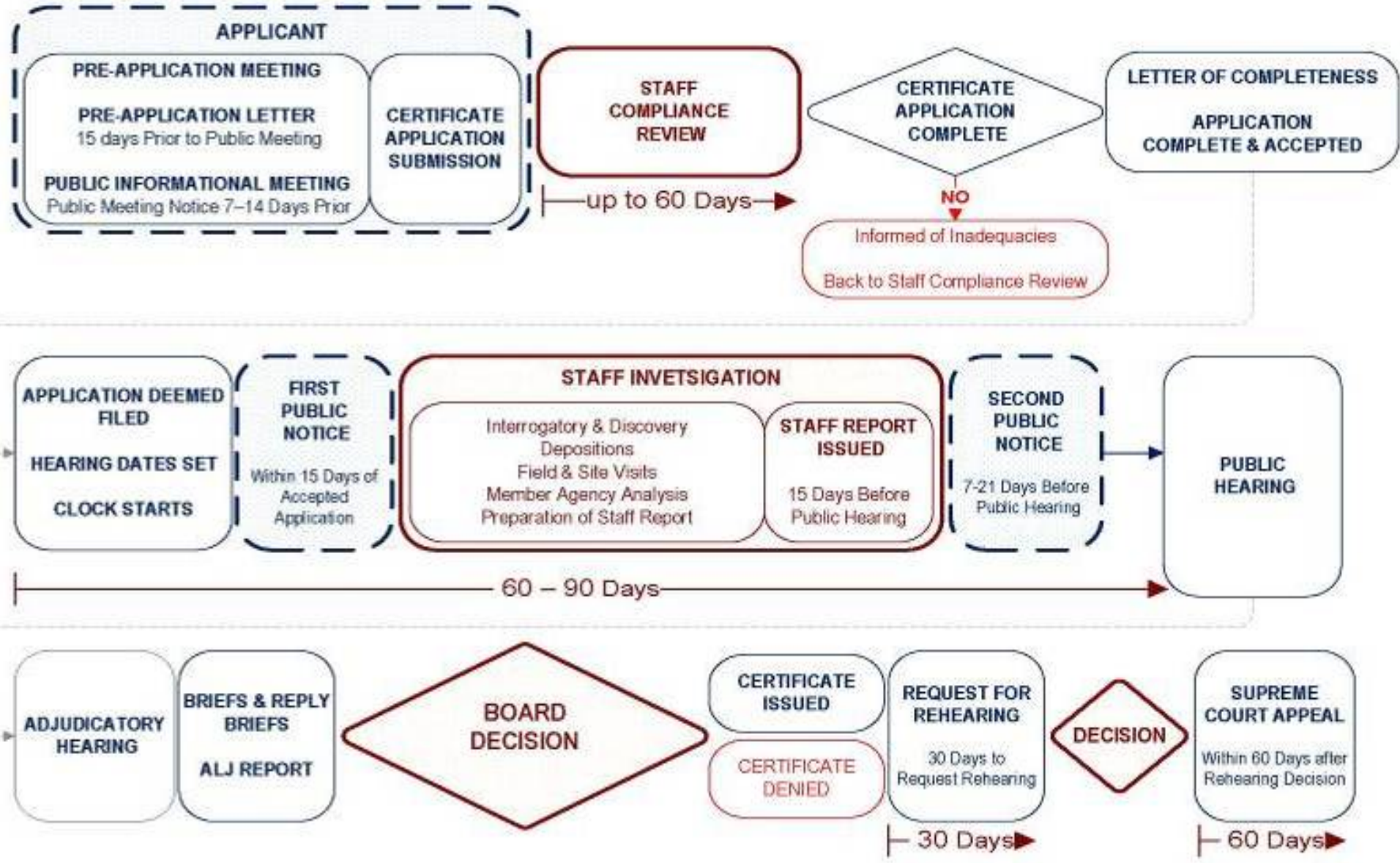
And,

- Any wind farm of 5 megawatts or more;

Process

- Pre-Application meetings and conferences
- Pre-Application Public Informational meetings
- Application submitted
- Completeness Review
- Letter of Completeness
- Proof of Service
- Board Entry establishing Filing Date & Hearing schedule
- Public Notice published by Applicant
- Staff Report
- Public Hearing
- Adjudicatory Hearing
- Board Decision
- Appeal Process

OHIIO POWER SITING STATUTE PROCESS FLOWCHART*



BOARD MONITORS CONSTRUCTION AND FIRST TWO YEARS OF OPERATION OF FACILITY

Conditions of Certificate Apply for the Life of the Facility

Public Participation

Formal

- Intervention by Public Officials
  - Township Trustees, County Commissioners, City Officials, etc.
  - Notice Required
- Intervention by persons impacted
  - Request for intervention
  - Counsel required

Public Participation

Informal

- Written submissions to the Board
- Toll-free Phone Inquiries
- Sworn Testimony at Public Hearing

Notification

- Filings of notices with local officials
- Filings of applications at local libraries
- Written notice to directly impacted landowners of upcoming meetings/hearing

OPSB Decision

- The need for the (transmission) facility
- The probable environmental impact
- Whether the facility represents the minimum adverse environmental impact considering the technology that is available and the nature and economics of the various alternatives
- Compliance with all air and water pollution control and solid waste disposal laws and regulations
- Consistent with regional plans for expansion of the electric power grid, and the interests of electric system economy and reliability
- Public interest, convenience and necessity
- Impact on agricultural lands
- Water conservation practices

OPSB Electric Generation Applications

(1998-2012)

GENERATION SUMMARY			
GENERATION CASES BY STATUS **ACTIVE**	**Number Of Cases**	**Capacity (MW)**	**Estimated Capital & Intangible Costs**
Certified - Operational	16	7,460	$2,951,633,700
Certified - Not Yet Online	21	7,229	$8,193,567,497
Certification Pending	8	1,653	$1,195,000,000
TOTALS:	**45**	**16,342**	**$12,340,201,197**

GENERATION CASES BY FACILITY TYPE	Number Of Active Cases	Capacity (MW)	Estimated Capital & Intangible Costs
Coal *(i.e. IGCC)*	4	2,169	$3,974,400,000
Cogeneration-Waste Heat	4	405	$524,831,197
Combined-Cycle	6	4,797	$1,571,000,000
Compressed Air	1	2,700	$1,650,000,000
Simple-Cycle	11	4,525	$1,537,190,000
Wind	19	1,746	$3,082,780,000
FACILITY TOTALS:	**45**	**16,342**	**$12,340,201,197**

OPSB Transmission Applications (1998-2012)

ELECTRIC TRANSMISSION SUMMARY			
TRANSMISSION LINE CASES BY STATUS	**Number Of Cases**	**Miles**	**Estimated Capital & Intangible Costs**
ACTIVE			
Certified - Operational	11	71.7	$40,825,000
Certified - Not Yet Online	7	38.5	$66,758,400
Certification Pending	6	86.1	$34,458,429
TOTALS:	**24**	**196.2**	**$142,041,829**

VOLTAGE LEVEL STATS (kV)			
ACTIVE			
138	*19*	150.8	*$118,170,829*
345	*5*	45.4	*$23,871,000*
765	-	-	-
VOLTAGE LEVEL TOTALS:	***24***	***196.2***	***$142,041,829***

GAS TRANSMISSION SUMMARY			
TRANSMISSION LINE CASES BY STATUS	**Number Of Cases**	**Miles**	**Estimated Capital & Intangible Costs**
ACTIVE			
Certified - Operational	13	109.4	$125,095,623
Certified - Not Yet Online	-	-	-
Certification Pending	3	241.5	$559,944,714
TOTALS:	**16**	**350.9**	**$685,040,337**

OPSB Construction Notices/Letter of Notifications (1998-2012)

ELECTRIC LETTER OF NOTIFICATIONS			
	Number Of Cases	Miles	Estimated Costs
Operational, Completed	173	139.4	$125,901,372
Not Yet Completed	22	30.0	$35,406,827
TOTALS:	195	169.4	$161,308,199

ELECTRIC CONSTRUCTION NOTICES		
	Number Of Cases	Estimated Costs
Operational, Completed	74	$71,748,886
Not Yet Completed	12	$71,748,886
TOTALS:	86	$143,497,772

GAS LETTER OF NOTIFICATIONS			
	Number Of Cases	Miles	Estimated Costs
Operational, Completed	13	156.7	$125,095,623
Not Yet Completed	5	10.5	-
TOTALS:	18	167.2	$125,095,623

GAS CONSTRUCTION NOTICES		
	Number Of Cases	Estimated Costs
Operational, Completed	69	$56,779,585
Not Yet Completed	15	$19,886,000
TOTALS:	84	$76,665,585

OPSB Wind Projects

OHIO WIND TOTALS				
			Certified	*Pending*
		Megawatt Totals:	**1,051**	**755**
		Turbine Count Totals:	**571**	**366**
		Total Potential Megawatts:	**1,806**	
		Total Potential Turbines:	**937**	
Received Certificate of Environmental Compatibility and Public Need				
Case No. / Project	***County***	***Date Certified***	***Number of Turbines***	***Certified MW's***
08-0666-EL-BGN / Buckeye Wind Project	*Champaign*	*22-Mar-10*	*54*	*135*
09-1066-EL-BGN / Blue Creek Wind Farm Project	*Paulding/Van Wert*	*23-Aug-10*	*159*	*350*
09-0277-EL-BGN / Hog Creek Wind Farm I	*Hardin*	*22-Mar-10*	*27*	*48.6*
09-0479-EL-BGN / Hardin Wind Farm	*Hardin*	*22-Mar-10*	*200*	*300*
09-0980-EL-BGN / Timber Road I Wind Farm	*Paulding*	*23-Aug-10*	*32*	*48.6*
10-0369-EL-BGN / Timber Road II Wind Farm *10-0369-EL-BGN / Timber Road III Wind Farm*	*Paulding* *Paulding*	*18-Nov-10* *28-Feb-11*	*55* *28*	*150.4*
10-0654-EL-BGN / Hog Creek Wind Farm II	*Hardin*	*29-Aug-11*	*8*	*18.4*
11-0757-EL-BGA / Hog Creek Wind Farm I	*Hardin*	*25-Jul-11*	See 09-0277	See 09-0277
11-1995-EL-BGA / Blue Creek Wind Farm	*Paulding/Van Wert*	*25-Jul-11*	8	See 09-1066
11-3446-EL-BGA / Hardin Wind Farm	*Hardin*	*29-Aug-11*	See 09-0479	See 09-0479
		Totals:	***571***	***1,051***
Pending Certificate of Environmental Compatibility and Public Need				
Case No. / Project	***County***		***Number of Turbines***	***Pending MW's***
10-2865-EL-BGN / Black Fork Wind Farm	*Crawford/Richland*		*91*	*200*
11-2400-EL-BGN / Ashtabula Wind Energy[2]	*Ashtabula*		*28*	*50*
11-3676-EL-BGN / Leipsic Wind Farm	*Putnam*		*75*	*150*
11-4886-EL-BGN / HoneyCreek Wind[2]	*Crawford/Seneca*		*115*	*184*
12-0160-EL-BGN /Buckeye II Wind Farm[2]	*Champaign*		*57*	*171*
		Totals:	**366**	**755**

(1 - Application not yet received. Turbines/Megawatts unknown.) (2 - Application not yet received)

OPSB Summary

- One-Stop Siting Process
- Timely action: Approximately 6 to 12 months for applications, with statutory time mandates; even more expedited schedules may be an option under certain circumstances
- Regulatory certainty: process is known and well practiced
- Sole jurisdiction: local and public participation welcome in the process, but sole decision rests with the state (OPSB)
- Our siting process is fair and efficient and has been put forth as an example for others to follow
- Having seen our success, several states and countries have adopted new siting legislation modeled after Ohio's statute

Ohio Power Siting Board

www.OPSB.ohio.gov