Site Selection

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Site Selection

- Evidence of Significant Wind
- Preferably Privately Owned Remote Land
- Proximity to Transmission Lines
- Reasonable Road Access
- Few Environmental Concerns
- Receptive Community

Major Siting Consideration

- Are the site factors favorable enough for an economically successful project?

Siting of Wind Farms

- Land use
- Aesthetics
- Property values
- Public safety
- Liability prevention
- Sound
- Environmental impacts
- Construction impacts

Land use

- **RECREATIONAL**
- Hikers
- Birders
- Skiers
- 4-Wheelers
- Snowmobilers
- Fishermen

- **INDUSTRIAL**
- Natural Gas Wells
- Oil Wells
- Mineral Extraction
- Ranchers
- Timber
- Hydropower

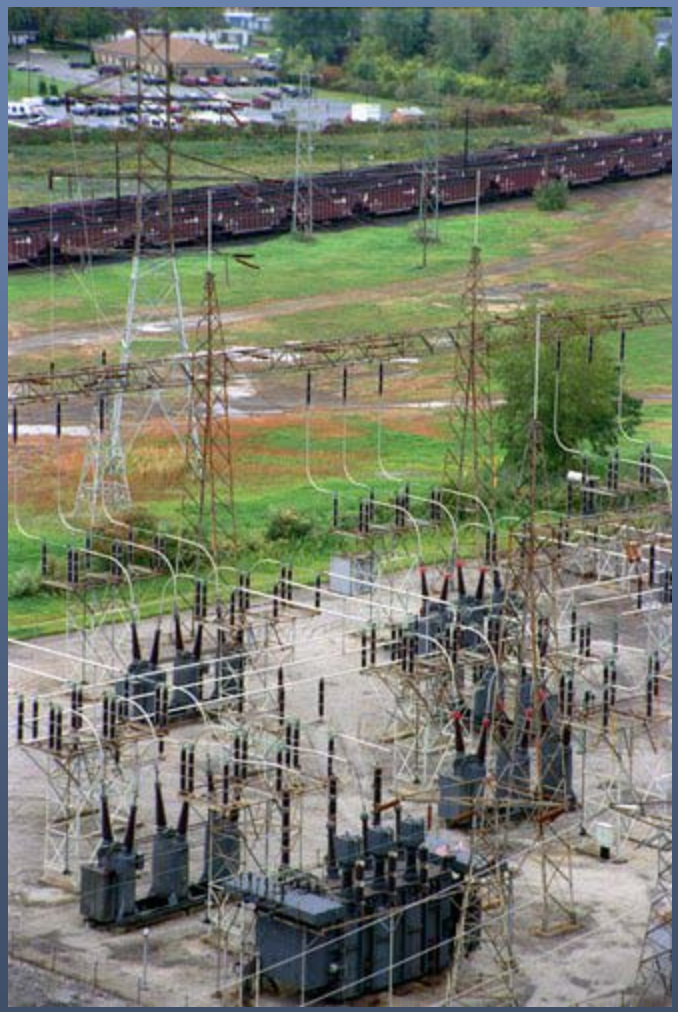
Aesthetics

Aesthetics

Aesthetics

Where are all the nuclear power plants??

Aesthetics



Aesthetics

Aesthetics

Aesthetics

Aesthetics

Any activities that occur on these lands, such as recreation, mining, timber harvesting, or energy development, have the potential **to** disturb the surface of the landscape and impact scenic values.

Aesthetics

Lattice towers recede better into the landscape, but pose potential avian perching problems. Viewed up close, lattice towers may be less appreciated than a monopole as they resemble utility towers.

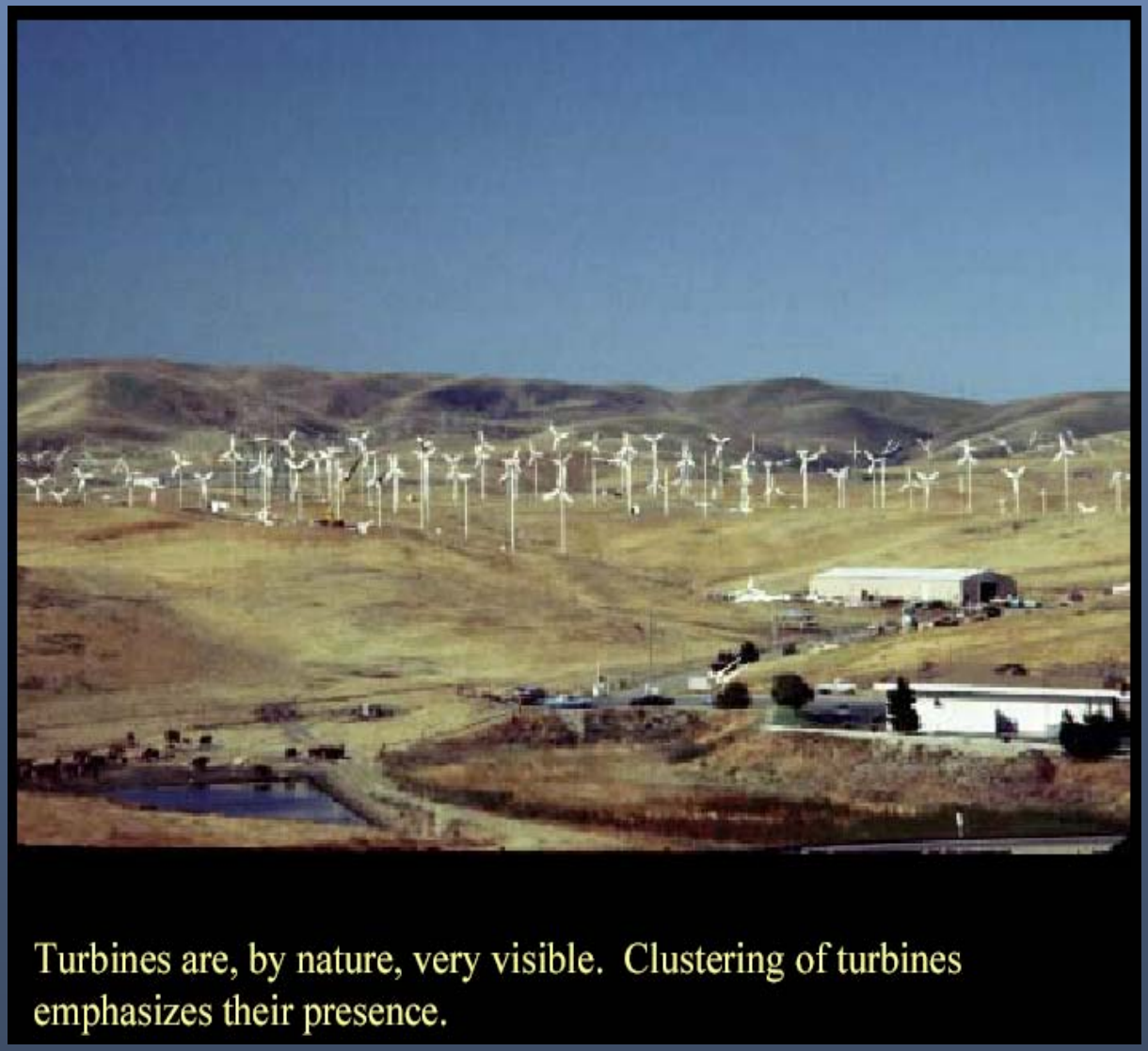
Aesthetics

Aesthetics

Visual impacts also include the infrastructure and other related facilities, such as fences, overhead and buried electrical distribution, transmission, and communication lines.

Aesthetics

Aesthetics



Turbines are, by nature, very visible. Clustering of turbines emphasizes their presence.

Public safety

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Public Safety

Safety is important:

- tall towers
- moving parts
- high voltage electrical equipment
- falling ice
- guy wires
- turbine breakage
- accessibility to electrical equipment and interiors of tubular towers

Standard safeguards :

•locking the turbine tower doors,
•info kiosks away from the turbines
•restricted access during icing events.

Aircraft safety:

•Federal Aviation Administration lighting requirements site specific.

Liability prevention

- From the outset of project planning and decision-making and implementation
- project location, design, installation, operation, and decommissioning, liability prevention is essential. Depending on insurance as a substitute for solid planning is a poor practice
- The key is diligence throughout planning and implementation of your project.

If an unauthorized person climbs a turbine or wind instrument tower, it may be viewed as an "attractive nuisance" for which the owner may be held liable.

Site Selection – FATAL FLAW ANALYSIS

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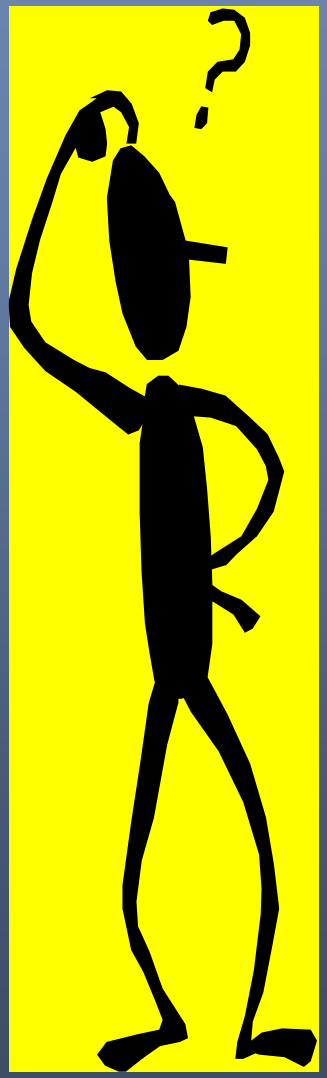
Questions?



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