Beyond Coal...

- Pollution
- Health
- Farmland
- Water
- Climate
…To Clean Energy

Off To A Great Start!

• Over 20,000 new jobs in clean energy

• Lower bills - $170 Million saved in 2011

• Cleaner air
Springfield Matters

- Since 2007, New Clean Energy Goals:

*Figure 1: Illinois RPS % Requirements and Generation Preferences*
Cleaner air, better health, slowing climate change

<table>
<thead>
<tr>
<th>Year</th>
<th>Renewable Energy Integration</th>
<th>CO2 (Ton)</th>
<th>NOx (Ton)</th>
<th>CO2 Cost ($)</th>
<th>NOx Cost ($)</th>
<th>Total Emission Cost ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>No Renewable Energy</td>
<td>90,386,907.82</td>
<td>78,114.40</td>
<td>451,934,539.12</td>
<td>781,143,959.14</td>
<td>1,233,078,498.27</td>
</tr>
<tr>
<td></td>
<td>With Renewable Energy</td>
<td>84,905,580.47</td>
<td>73,349.79</td>
<td>424,527,902.36</td>
<td>733,497,897.58</td>
<td>1,158,025,799.94</td>
</tr>
</tbody>
</table>

Figure 5: Emissions Cost Savings From Renewable Resource Integration

5.4 Million Tons CO2 Reduced = Annual Emissions From 1 Million Vehicles
Springfield Matters

- Since 2007:
  - New Energy Efficiency Programs
    - Electric
    - Gas
  - Energy Efficient Statewide Building code
Threats to Continued Progress

• Market changes, flaw in Renewable Portfolio Standard

• The Raid on Clean Energy Funds
Renewable Portfolio Standard

Meeting the RPS Goals - Two Different Approaches

- Alternative Suppliers - Buy REC, pay fine
- ComEd/Ameren Buy from IL projects
- Alternative Suppliers - Buy REC, pay fine
Renewable Portfolio Standard

IL Electric Market - 2007

- ComEd/Ameren
- Alternative Suppliers (ARES)
Renewable Portfolio Standard

IL Electricity Market - 2013

Alternative Suppliers

ComEd/Ameren
### Total Clean Energy Funds Invested:

<table>
<thead>
<tr>
<th>Year</th>
<th>Funds Invested</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>$7,148,262.00</td>
</tr>
<tr>
<td>2011</td>
<td>$5,606,245.00</td>
</tr>
<tr>
<td>2012</td>
<td>$2,156,125.00</td>
</tr>
<tr>
<td>2013</td>
<td>$40,300,000.00</td>
</tr>
<tr>
<td>2014</td>
<td>$80,000,000.00</td>
</tr>
<tr>
<td>2015</td>
<td>$100,000,000.00</td>
</tr>
</tbody>
</table>

*Sources: Illinois Power Agency, Illinois Commerce Commission*

*Note: Estimates for future years (2014 and beyond) are HIGHLY dependent on two variables - the portion of load served by ARES, and the annual REC price in the IPA procurement. If load shifts...*
SOLUTIIONS

• FIX RPS (Senate Bill 103/HB2864)

• Invest new clean energy dollars – fully appropriate the Renewable Energy Resources Fund
SOLUTION: More Municipalities Going Green HB2623
NATURAL. GAS  Fracking Coming to Illinois!
Major Gas Plays in the U.S.

United States Shale Gas Plays

Explore, enjoy and protect the planet
New Albany Shale in Illinois

Explore, enjoy and protect the planet
SOLUTIONS

• REGULATIONS

• Proper waste handling and disposal

• Protect water supplies

• Protect natural areas

• Control air emissions

AND/OR

• Moratorium
HB2615 – The High Volume Horizontal Fracturing Regulatory Act
Provisions in HB 2615 to Protect Landowners & Ground Water Near Well

• Numerous best engineering practices for well construction, casements and maintenance required.

• Baseline water testing before the frack

Explore, enjoy and protect the planet
• Post fracking water testing of same water sources 6, 18 and 30 months after completion of fracking operation.

• Loss or contamination of a person’s water during or within 30 months of fracking is presumed to be caused by fracking, and the operator will be required to haul water or supply bottled water.
Provisions in HB 2615 to Minimize Pollution from Vertical Migration

- Plugging of all known previous well bores within 750 feet of any part of the horizontal wellbore.
Flowback Provisions in HB 2615

• No open-pit waste water storage – all flowback placed in above ground, sealed containers.

• Fracking fluids and flowback must be removed from site within 60 days of well being fracked;
Provisions in HB 2615 to Minimize Surface Water Pollution

Unlawful to perform fracking operations by knowingly or recklessly injecting diesel or petroleum distillates.

Mandatory reporting of spills with Class 3 & 4 felony penalties for surface or groundwater violations.
Minimize Surface Water Pollution

Prohibits injection or discharge of hydraulic fracturing fluid, produced water, BTEX, diesel, or petroleum distillates into fresh water.

In addition to the Attorney General and the State’s Attorney of the county in which fracking is taking place, any adversely affected persons – including environmental groups – may sue (a) fracking companies for violations of the Act, and (b) the Department for failure to perform its duties under the Act.
Provisions in HB 2615 to Minimize Air Pollution

- No direct release of hydrocarbons to the atmosphere during flowback or production.
- If necessary, flaring allowed with 98% efficiency.
Other Concerns:

- Setbacks
- Truck Traffic
- Injection Wells
- Seismicity
- Frack Sand Mines
- Wells On or Near State Land
- Public Input
• 300 ft from a river, stream, lake, pond, or reservoir;
• 500 ft from a residence or place of worship, unless the owner of the residence or the governing body of the place of worship expressly agrees in writing to a closer well location;
• 500 ft from a school, hospital, or licensed nursing home facility;
• 500 ft from an existing water well or developed spring, unless the owner(s) of the well or developed spring expressly agrees in writing to a closer well location;
• 750 ft from a nature preserve; and
• 1,500 ft from a public water supply.

The bill does not allow for a general variance from these setbacks.
Proposed Sand Mine by Starved Rock State Park

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FRACKING MORATORIUM PROPOSALS
SB1418/HB3086

• No fracking activities in the state until a hydraulic fracturing task force makes a series of recommendations to the Illinois General Assembly.

• The task force is required to make a series of recommendations for regulation within a two-year period.
SOLUTIONS

• Proper waste handling and disposal

• Protect water supplies

• Protect natural areas

• Control air emissions

OR

• Moratorium
OTHER ISSUES

- Recreational Liability Protection
- DuPage Stormwater Funding
HOW YOU CAN HELP

- Visit your legislator in the district
- Come to Lobby Day – May 2nd!
- Stay informed: illinois.sierraclub.org/legislation
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