

“Smart Growth” & Energy

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“The 9 Elements”

- Comprehensive Planning Legislation has nine required elements :
 1. Issues and Opportunities
 2. Housing
 3. Transportation
 4. Utilities and Community Facilities
 5. Agricultural, Natural and Cultural Resources
 6. Economic Development
 7. Intergovernmental Cooperation
 8. Land Use
 9. Implementation

Smart Growth & Energy

Smart Growth Plan = Land Use

Land Use and Energy?!

Smart Growth & Energy

- Not explicitly “required” to address energy issues in Wis. Stats. 66.1001 !
- No “guidebook” available (or developed?)
- Need to use “common sense”
- Energy = Generation, Transport, or Usage of:
 - Electricity (coal, gas, wind, hydro)
 - Natural Gas/Propane
 - Wood/Bio-mass
 - Petroleum (gas, kerosene, oil)

“The 9 Elements”

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Think about it!

“The 9 Elements”

1) Issues and Opportunities:

- Quantification of Energy Needs:
 - Existing/projected population
 - Existing/projected dwelling units
 - Existing/projected commercial/industrial uses
 - Existing/projected institutional uses

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2) Housing:

- Site planning for energy efficiency
- Home design
 - Solar
 - Wind
 - Tree planting
 - Size! (are mega-mansions necessary?)
 - Water furnaces (recent issues!)

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3) Transportation:

- Narrower Roads = less material = less energy
(parking too!)
- Mass Transit = fuel conservation
- Alternative modes = fuel conservation
 - Bike and pedestrian facilities
 - Bus Bike Racks (Valley Transit)
 - “Walkable” communities!

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4) Utilities and Community Facilities:

- Power Companies & utilities
 - Power-line expansion/capacities
 - Wind energy projects
 - Hydroelectric / dam issues

- Water/Sewer utilities = Treatment costs!

- Municipal conservation / opportunities:
 - Green building methods
 - Power saving fixtures / operations methods
 - Landfills / methane gas production

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5) Agricultural, Natural and Cultural Resources:

- Agriculture:
 - Bio-diesel
 - Ethanol
 - Wind (sustainable community project?)
 - Manure digesters

- Forestry
 - Biomass

- Natural processes (“green infrastructure”)
 - Wastewater treatment

- Community Character
 - Lighting
 - Signage (lights)
 - Tree planting (energy use reductions)

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6) Economic Development:

- Commercial/Industrial building construction
- Multi-modal shipping opportunities
- Green business campaigns / marketing
- Home-based business promotion

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7) Intergovernmental Cooperation:

- Cooperative agreements:
 - Recycling
 - Composting
 - Equipment sharing
 - Regional WWTF/water facilities

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8) Land Use:

- This is the culmination of the process!
- Need to integrate “energy” into the final product!
 - Is it an issue?
 - Is it an opportunity?
- Get additional involvement locally!
 - Power companies / utilities
 - Conservation groups
 - School groups
- “Easy” side project!

“The 9 Elements”

9) Implementation:

- Integrate “sustainability”
- Conservation (set goals!)
- Use existing tools / methods:
 - Community Level – “Natural Step” process
 - Individual Level – promote existing programs

Regional Comprehensive Plan

- MS #3 being prepared (strategies)
- MS #4 being prepared (implementation)
- Planned recommendations dealing with:
 - Integration of energy issues
 - Follow-up projects/tasks/activities
 - Introduction of “sustainability” concept:
- To make an impact, energy issues must be dealt with regionally! (cumulative effects)

That's All!

- For Further Information:

EAST CENTRAL WISCONSIN REGIONAL PLANNING COMMISSION



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