

Eastern Region GROUP B

Energy & Water Supply
Needs and Solutions

Needs

- 1) Ensure adequate supply of water for long term energy needs and ensure supply of energy for water needs
- 2) Decrease demand per unit output for both water and energy
- 3) Lower costs
- 4) Balance competing uses between sectors (e.g., ag, energy, recreation, urban)

Solutions

- Characterize water resources in terms of quality, location, productivity with respect to needs of energy industry
- Identify gaps in data and knowledge
- Increase utilization rate of off-spec (impaired) water; costs per unit, alternative sources, technologies, policies

Solutions (continued)

- Create framework for market mechanisms for water trading to encourage energy industry to participate in environmental improvements
- Disseminate information
- Develop to efficient technologies
- Develop new technologies
- Conduct international survey of technologies and planning systems

Solutions (Continued)

- Involve River Basin Commissions in DOE Energy-Water planning process
- Identify and evaluate existence of integrated energy/water planning models. Identify gaps in these models, and as needed, develop new planning models that integrate energy and water long term planning