



Knoxville Energy and Sustainability Task Force Infrastructure Working Group – 4/22/10

Objective: Work closely with applicable City departments to evaluate impacts of current City government practices, research, and recommend affordable and practical ways to incorporate sustainability into elements of street design, public parking facilities, and public park lands.

Working Group Scope – within the areas elaborated below, the working group will:

- evaluate environmental and economic impacts of current practices;
 - identify and prioritize most effective areas for improvements;
 - Analyze and propose strategic and viable methods for incorporating sustainable design and/or operation standards into engineering practices.
- I. ROW/Streetscape Design Standardization related to:
- a. Storm-water/Drainage/Filtering (new regulations)
 - b. Lighting
 - c. Paving
 - d. Landscaping/Street trees
 - e. Utility placement coordination during design
 - New construction
 - Maintenance within ROW
 - e. Accommodation for bike/walk-ways
- II. Design and Operation of Parking Facilities
- a. evaluate means of reducing the energy and environmental impacts of existing areas
 - b. propose methods for incorporating best practice sustainable design standards into new design / construction
- III. Water consumption/irrigation for Parks
- a. analyze water use;
 - b. recommend improvements to plantings (e.g. drought resistant species) to reduce irrigation needs
 - c. develop design guidelines for new development or major renovations.