

Energy Recommendations

Goals:

Citizens, businesses, and governments of Wake County:

- A. Achieve and maintain EPA’s national ambient air quality standards by reducing ozone and particulate matter.
- B. Minimize the adverse impacts to water, land, and air caused by the production and consumption of fuel and energy.
- C. Create a thriving clean technology industry cluster as part of its economic development strategy.
- D. Reduce dependence on foreign fuel sources.
- E. Reduce energy costs from Wake County government buildings and vehicles.

| | Goals | | | | |
|-------------------|--------------|----------|----------|----------|----------|
| <i>Strategies</i> | A | B | C | D | E |
| <i>1</i> | | X | | | X |
| <i>2</i> | X | X | X | X | X |
| <i>3</i> | X | X | X | X | X |
| <i>4</i> | | | | | X |
| <i>5</i> | | X | | | |
| <i>6</i> | | X | | X | |
| <i>7</i> | | X | | | |
| <i>8</i> | | X | | X | |
| <i>9</i> | X | X | | X | |
| <i>10</i> | X | X | X | | X |
| <i>11</i> | | X | | X | X |
| <i>12</i> | X | X | X | X | X |
| <i>13</i> | | X | X | | X |

DRAFT Energy Strategies

1. Evaluate existing building codes, policies and regulations to identify limitations to, and opportunities for, the energy efficient design of buildings and outdoor lighting.
2. Educate the residential, commercial, and industrial sectors about energy conservation and energy efficiency using science-based information.
3. Collaborate with others to implement energy demonstration and research projects.

4. Audit existing Wake County facilities, including schools, to find ways to conserve energy. Based on benefit cost analysis and return on investment, evaluate:
 - a. group relamping
 - b. motor management policy
 - c. energy efficient retrofits
 - d. retro commissioning
 - e. energy performance contracting for the purpose of installing energy conservation measures in areas such as HVAC, lighting, and day lighting design

5. Ensure that buildings owned or funded by Wake County perform at a high level by:
 - a. Requiring enhanced commissioning for new construction.
 - b. Requiring building owners to develop and consistently adhere to maintenance plans.

6. Support and encourage energy efficiency in all buildings not owned or funded by Wake County through the use of audits, retrofits, performance contracting, and retro-commissioning.

7. Evaluate potential incentives to promote:
 - a. the use of energy efficient appliances when replacements are needed
 - b. the construction of energy efficient buildings
 - c. the operation of energy efficient buildings
 - d. the retrofit of buildings to increase energy efficiency

8. Encourage and implement where feasible, mass transit, multimodal transportation planning, and land use planning that helps achieve and maintain EPA's national ambient air quality standards requirements.

9. Support Waste Management Recommendation Goal 3, Maximize the Financial and Environmental Benefits of Other Landfill Resources Strategy 11, 12, 13.

10. Support development of Smart Grid infrastructure with appropriate information security standards.

11. Develop charging stations for electric cars with the consumer paying for the electricity.

12. Support development and use of current and future sustainable energies (e.g. solar, wind, geothermal, methane) where feasible.

13. Support economic development strategies to attract energy-related technology companies to Wake County.