Sustainability - Energy Design and Management Guideline

Finalized Revision



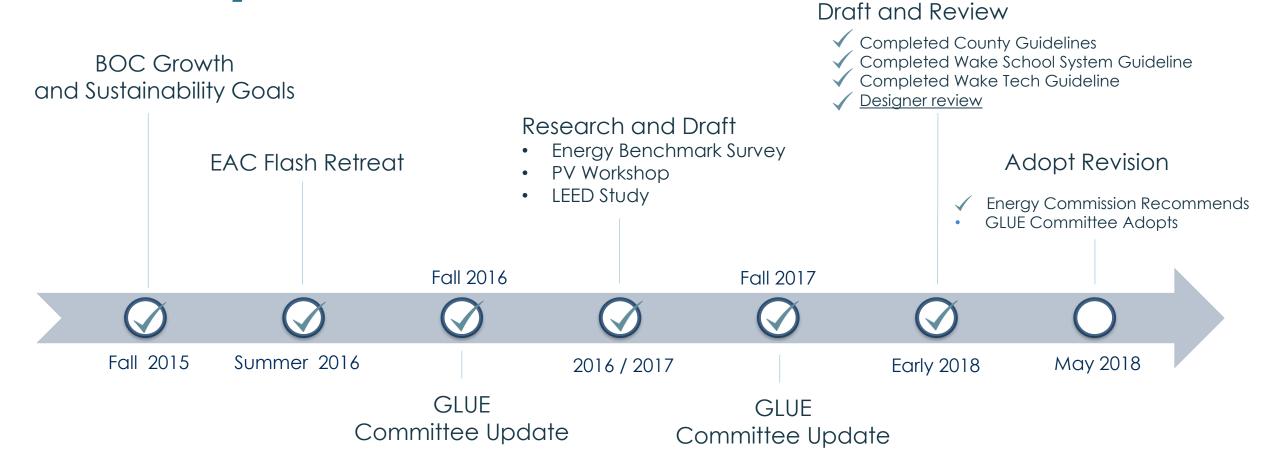






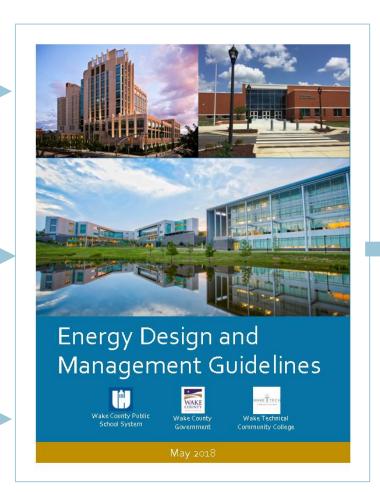


Completion Timeline



2018 Energy Guideline

Targets **Current and Future** Goals New Initiatives



Implementation

Key Takeaways

- 1. Align the Energy Review Process to the Design Process
- Minimizes design cost
 Validate and Improve Building Performance Targets
- Anglitates early Energy Commission input Minimum 14% better than code 3. Define Sustainable, Efficient Design Elements
- - Uses methodology that works for all building types
 Ensures that design incorporates sustainable elements
- 4. Establish a Renewable Energy Position
 Consideration of greenhouse gas in the evaluation process
 Solar Ready all new construction will be solar ready
- 5. Develop an Emerging Technology Evaluation Process
 Considers renewables early and throughout in design

 - Incorporates an approach to research and development and new technologies

Wake 3 - Partners







Governed Separately, Volunteered Participation

Why Partner?

- Public Accountability and Transparency
- Collegente fer 190km Meynty dollars square feet
 - Large Utility Budgets
 - Consume natural resources

Wake³ Commitment

- Assemble annually
- Report energy consumption metrics
- Share and Leverage R&D

Design Commonalities

Custom Building Performance Target
Senate Bill 668
Sustainable Strategies
Presentations to an advisory/Review Committee
Energy Model Required in Design
Life Cycle Cost Analysis
Submetering
Solar Ready Buildings
Emerging Technology Evaluation Process
Commissioning Required for New Construction
Design Reporting Forms

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Management Commonalities

Annual Meeting Annual Energy Performance Metric **Utility Data Storage and Analysis** Energy Conservation Plan/Policy Energy Conservation Measure – Capital Projects **Energy Service Performance Contracting Building Management Systems**

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Wake County Board of Commissioners

Guideline is in response to board action:

- Board's Energy Policy
- Board's Endorsement Paris Climate Agreement
- Board Initiative to Update Guideline

Wake County Energy Conservation and Management Policy

Adopted by Board of Commissioners 1992

Policy Authorizes and Requires:

- Energy Conservation programs
- Revision of Energy Design Guidelines
- Energy Guideline in designer contracts
- Use and collection of energy data in operations and utility budget forecasting

Wake County Paris Climate Agreement Resolution

Adopted by Board of Commissioners June 5, 2017

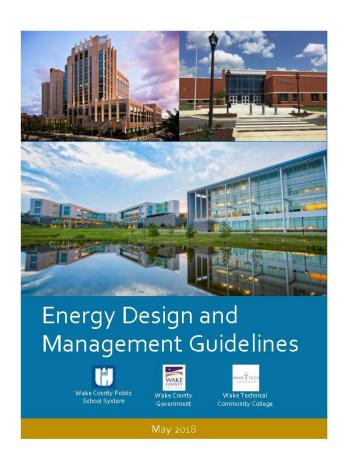
Endorses:

Goals of Paris Climate Agreement

Commits County Operations:

 Continue efforts toward sustainability and reduction of greenhouse gas...

Requested Action

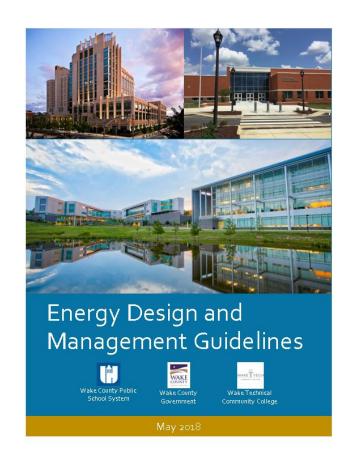


Request consensus for Adoption of the Energy Design and Management Guideline effective May 1, 2018.

Next Steps

May 1st, 2018

- 1. Update construction design contracts
- 2. Schedule Annual Wake³ Meeting
- 3. Report Annual Energy Metrics



Completion Timeline

