

# ***ENERGY STRATEGIES TASK FORCE:***

## ***Commercial Codes***

*Presentation to Consortium of Cities in Support of Resolution  
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Lisa A. Skumatz, Ph.D. and Ann Livingston

# ***HISTORY***

- ESTF – Early action items, commercial codes next phase
- 1/10/07 Consortium Resolution recommending task force to work with local governments to develop county-wide programs on:
  - Building codes for new construction and remodeling for (residential and) non-residential structures in Boulder County.
  - Seek input from and convene meetings with local government code officials to discuss ...
- Incorporated into SEP – Inventory indicates 29% of County's GHG emissions from comm'l bldgs

# TASK FORCE

- 39 Representatives from:
  - Code officials, elected officials, staff, chamber, SWEEP, experts (solar, HVAC, engineering, architects), others
  - Communities represented – Boulder County, Boulder City, Longmont, Lafayette, Lyons, Nederland, Jamestown, Superior, Louisville, Broomfield.
- Convened with facilitator, meetings over 1 year (grant assistance from Boulder County-thanks!)
- Process: Started with LEED and other; struggles with code language issue; rally around references to accepted agency code-type language options
- Brought in expertise, and also reports on marginal costs for meeting reductions envisioned
- Emphasis on energy recommendations. Priorities:
  - Reduce energy use; reduce (fossil) carbon footprint of comm'l bldgs; reduce embodied energy
  - Urgency – lost opportunities

# ENERGY RECOMMENDATIONS

	Require	Incentivize
New Bldgs	30% more efficient than baseline (IECC2006 or ASHRAE 90.1-2004) Recommend communities adopt by end of 2010	Incentivize HE htg / cooling systems
	>20,000 sq ft performance-based (based on draft ASHRAE 189.1P)	
	<20,000 sq ft either performance or prescriptive	
	Require post-occupancy energy performance report	
	Require or incentivize “ready for renewables”	Or Incentivize

# ***ENERGY RECOMMENDATIONS***

	Require	Incentivize
Reno- vations	If element altered, modified, or expanded, comply with above 30% reduction below code	
	Require building energy audit, subject to availability of no cost audit services.	

# OTHER RECOMMENDATIONS

	Require	Incentivize
Water effic - NC	Require water efficient landscaping (50% reduction in water use)	Innovative wastewater technologies
Water effic - NC	Require 30% reduction in internal potable water use (low flow fixtures / equipment, prescriptive or performance)	
IAQ - NC	Adoption of IAQ requirements in 189.1, Chapter 8	
Mat'ls – NC&R	Equal space for waste and recycling containers, internal & external	Use of sustainable mat'ls in construction

# OTHER RECOMMENDATIONS

	Require	Incentivize
Sites – NC	<p>Bike storage per LEED or similar</p> <p>Non-roof measures to reduce heat island effect</p> <p>Dark Sky requirements consistent across jurisd's.</p>	<p>Construction near public transport</p> <p>Low emitting &amp; fuel-efic vehicles</p> <p>Maximize open space</p>
Plan & Zone - NC	<p>(Remodel) Consider reqm'ts for plug-ins based on size of remodel</p>	<p>Allow less parking and support alt transport.</p> <p>Protection/restoration of habitat during constr</p> <p>Designing / bldg with solar orientation and renewables</p>

Also mentioned: incentivize add'l on-site stormwater treatment;  
 Discussed construction poll'n prevention, density / connectivity;  
 Brownfield redevelopment, stormwater quantity; tree plantings;  
 walkability – most are community issues.

# ***CONSORTIUM ACTION REQUESTED***

- Pass resolution
  - Very similar in nature to previous resolutions (residential codes / action, and SEP)
  - Support
  - Recommend support and adoption from communities
  - Dedicate time from community staff / code officials to work into local codes to get adopted
- Questions?