FAIRFAX COUNTY PLANNING COMMISSION ENVIRONMENT COMMITTEE WEDNESDAY, JANUARY 21, 2016

- PRESENT: James R. Hart, Commissioner At-Large Ellen J. Hurley, Braddock District John Ulfelder, Dranesville District Kenneth A. Lawrence, Providence District Janyce Hedetniemi, Commissioner At-Large
- ABSENT: Frank A. de la Fe, Hunter Mill District Julie M. Strandlie, Mason District Timothy J. Sargeant, Commissioner At-Large
- OTHERS: Kimberly Bassarab, Assistant Director, Planning Commission Office Jeanette Nord, Deputy Clerk to the Planning Commission

ATTACHMENT:

A. MITRE Corporation Building Energy Technology Recommendations to Fairfax County Table

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Chairman James R. Hart called the meeting to order at 7:00 p.m. in the Board Conference Room, 12000 Government Center Parkway, Fairfax, Virginia, 22035, and introduced Noel Kaplan, Department of Planning and Zoning, to discuss the comments in the MITRE Corporation Building Energy Technology Recommendations to Fairfax County Table.

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The meeting was adjourned at 7:58 p.m. Peter F. Murphy, Chairman

An audio recording of this meeting is available in the Planning Commission Office, 12000 Government Center Parkway, Suite 330, Fairfax, Virginia 22035.

Minutes by: Jeanette Nord

Approved: April 19, 2017

John W. Cooper, Clerk to the Fairfax County Planning Commission

	MITRE Corporation Building	g Energy Technology Recommend	ations to Fairfax County (As of Decen	nber 3, 2015)
Over	rarching Recommendation	·		······································
1		take no action directly on building FCG continue its practice of not pre	a prescriptive approach to building ter form, integration, construction, or op escribing technologies or designs to de	erations." (Sec. 3.3.1.2)
	Staff: Concurs. Staff views the recommendation as being consistent with the current green building policy. Staff continues to support engagement with applicants to explore potential proffers.	Stakeholders: Interest expressed in augmenting LEED with energy-specific performance.	Further discussion needed? If so, on what issue(s)? If the committee disagrees with the recommendation, is there a specific building technology of interest?	EC Position: General support for the staff perspective, but there is a need to circle back to this item upon completion of reviews of the other recommendations
Reco	ommendations regarding Individual Tech	nologies/Data Collection		
2a	<i>Wind</i> : "We recommend that FCG not e to explore the option further it could us			
	Staff: Concurs. Because the Virginia NREL map shows wind generation is impractical in Tysons (and most of Virginia generally), staff does not consider mapping to be a good use of resources.	Stakeholders: No specific comments.	Further discussion needed? If so, on one or both recommendations and on what issue(s)?	EC Position: Support for the staff perspective

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-	MITRE Corporation Building	Energy Technology Recommenda	tions to Fairfax County (As of Decem	ber 3, 2015)	
2b	Geothermal: "An engineering study is necessary to determine the general suitability of [ground source heat pumps (GSHPs)] in Tysons Corner. We are aware of no such general study, and so we recommend against FCG encouraging the installation of GSHPs if the developer loes not support the idea. If FCG wishes to pursue this avenue for the future, however, a comprehensive engineering study of the issue may be of interest." (Sec. 3.1.2.2)				
	Staff: Concurs. Staff recognizes geothermal as a proven technology but oné that needs to be evaluated by a developer on a case-by-case basis.	Stakeholders: No specific comments.	Further discussion needed? If so, on what issue(s)?	EC Position: Support for the staff perspective	
2c	Solar: [Given that, in Tysons,] "urban density and vertical development will be the rule we recommend that FCG encourage the adoption of solar systems only if the developer originally proposes and supports the installation Insolation is well-known and easily available from NREL; there is nothing to be gained from a proffer of data collection on this subject." (Sec. 3.1.3.2)				
	Staff: Concurs. Staff supports MITRE's perspectives on solar generation but notes that it remains a relatively expensive way to generate electricity (or reduce greenhouse gas emissions) when compared to Virginia electric rates.	Stakeholders: No issues raised with MITRE's recommendation; comments focused on the cost of solar systems and environmental and societal benefits of solar-generated electricity.	Further discussion needed? If so, on one or both recommendations and on what issue(s)? Is there a need to acknowledge that the review is extending countywide and that MITRE's concern regarding limited roof surface area in Tysons may not apply elsewhere in the county?	EC Position: {Issue needs more discussion}	
2d	Storage for Load-Shifting: "We recommend that Fairfax remain neutral on the implementation of load-shifting in an individual building [and] we recommend that FCG only pursue energy storage systems only if they are originally proposed and supported by the developer." (Sec. 3.2.3)				
	Staff: Concurs.	Stakeholders: No specific comments.	Further discussion needed? If so, on what issue(s)?	EC Position:	

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	MITRE Corporation Building	g Energy Technology Recommende	ations to Fairfax County As of Decem	ber 3, 2015	
Reco	mmendation regarding District Energy				
3	"We recommend that unless an applicant is proactively pursuing a district energy approach (or similar effort), the county not seek proffers on the subject of district energy in favor of seeking proffers with more certain benefit. If FCG wishes to proceed towards district energy, we recommend that it first seek help from federal resources" (Sec. 3.4.2)				
	Staff: Concurs.	Stakeholders: No specific comments.	Further discussion needed? If so, on what issue(s)?	EC Position:	
Reco	ommendations regarding 3 rd Party Certifi	cations and Performance Guidelin	les		
4a	LEED: "FCG already pursues certification-based approach with its use of LEED. We recommend that it continue this course rather than looking for more direct influence over the technology particulars of a building We recommend continued use of LEED." (Sec. 5.4)				
	Staff: Concurs. Staff views the recently-revised green building policy as consistent with this recommendation.	Stakeholders: No specific comments.	Further discussion needed? If so, on what issue(s)?	EC Position:	
4b ¹	Designed to Earn ENERGY STAR: "To complement LEED, we recommend that the county encourage Designed to Earn the ENERGY STAR [DEES] certification We recommend DEES certification, rather than ENERGY STAR certification" (Sec. 5.4) " because LEED only considers design, FCG should also encourage at least Design to Earn ENERGY STAR certification (Sec. 6.4)				
	Staff: If is determined that the previous decision to not emphasize any particular green building aspects should be revised such that energy efficiency should be emphasized, staff concurs with the consideration of the use of DEES to the extent DEES is recognized as complementary, rather than as an alternative, to other green	Stakeholders: Supportive. LEED requires only a minimal increase in energy efficiency; other options in addition to DEES may be available (e.g., ASHRAE guides; LEED energy optimization points).	Further discussion needed? If so, on what issue(s)? Does the committee wish to revisit its prior recommendation against emphasizing any particular aspect of green building design? If the committee wishes to recommend an emphasis on energy efficiency, what approach(es) should be	EC Position:	

¹ Note: As of July 14, 2015, the county began enforcing a new provision in the 2012 Virginia Energy Conservation Code that requires commercial projects to incorporate one of three energy measures (HVAC efficiency, lighting efficiency, or on-site renewable energy). The committee may wish to consider this new requirement when discussing whether additional efforts to augment LEED, such as DEES, should be pursued.

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	building commitments. Policy Plan guidance appears to support DEES aspirational efforts.		considered and what additional discussions would be needed to aid the committee in developing a recommendation? See staff's decision flow chart.		
4c	Benchmarking with Portfolio Manager: "To complement LEED, we recommend that the county encourage annual benchmarking with Portfolio Manager." (Sec. 5.4) " because LEED only considers design, FCG should also encourage at least Design to Earn ENERGY STAR and then annual reporting in ENERGY STAR Portfolio Manager to ensure energy-efficiency in practice. FCG should also strongly encourage building owners to help improve LEED by using Portfolio Manager to report energy performance back to the U.S. Green Building Council." (Sec. 6.4)				
	Staff: Supports tracking and evaluation of energy use in general but has concerns about seeking related proffer commitments. Supportive stakeholder comments caused staff to reconsider its concerns. There may be promise in pursuing commitments, and in particular the idea of gaining county government access to Portfolio Manager (or equivalent) data to support future evaluations if/when resources would be available. However, data consistency, enforcement and staff resource concerns remain. Reporting to USGBC is not an issue—LEED certification includes a reporting requirement.	Stakeholders: Comments express considerable support for energy benchmarking and the use of Portfolio Manager. Commenters describe access to energy use data as a consumer information need and not difficult to collect, state that required submissions will spur tracking by others and note that other localities impose benchmarking requirements.	Further discussion needed? If so, on what issue(s)? Should the county seek to collect building energy data through proffered commitments? If so, should the data collection mechanism be periodic reports or the provision of access to Portfolio Manager accounts for the building(s) in question? See staff's decision flow chart. In addition, the committee has received guidance on its questions regarding FOIA implications of data collection, and this could be considered within this discussion.	EC Position:	

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÷	MITRE Corporation Building Energy	/ Technology Recommende	ations to Fairfax County (A <mark>s of Dec</mark> em	ber 3, 2015)
Rec	ommendation regarding Public Reporting			
5	"[W]e recommend that FCG encourage build should negotiate access to the consumption da publicly online Additionally, each facility sh Certification." (Sec. 5.4; see also Sec. 6.5)	ta through Portfolio Manag	ger, and the County should post the ar	nnual benchmarking results
	Staff: Staff supports the tracking and evaluation of energy use but has concerns about public reporting of private building energy use. Concerns include uncertain legal authority to require public disclosure of private data, the extent to which applicants would be willing to commit to disclosure, uncertain means to enforce voluntary commitments, and lack of staff resources to maintain and publicize energy use data.	Stakehoiders: Considerable support for energy benchmarking and tracking and the use of Portfolio Manager in particular.	Further discussion needed? If so, on what issue(s)? If the committee supports public disclosure, should the county pursue MITRE's recommendation or another version of disclosure? If the latter, does the committee have a particular approach to disclosure that it would recommend?	EC Position:

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 <i>MITRE Corporation Buildin</i> "We also recommend that FCG pay clo mature, we recommend FCG use them	se attention to the evolution of P		
Staff: Concurs in the recommendation to closely monitor and has done so to date.	Stakeholders: No specific comments.	Further discussion needed? If so, on what issue(s)?	EC Position:

	MITRE Corporation Building Energy	r Technology Recommen	dations to Fairfax County (As of Decem	ber 3, 2015)
4e Innovative Energy Proposals: " we recommend that FCG allow risk to trump certification. If a developer acting in good faith proposes project with new, risky technologies that may offer a chance at breakthrough energy performance, and if that riskiness is enough to jeopardize FCG's usual preferred form of certification, then we suggest that the county accept a commitment to proceed with the risky process in lieu of a commitment to the certification (though maintaining a reporting component to the commitment) and proceed with the risky project (Sec. 5.4) " certification guidelines (though not Portfolio Manager reporting) should not be applied rigidly if a developer wishes to be a test case unproven energy-efficiency techniques or technologies FCG should coordinate with DOE programs to recruit suitable experimentation developments, and it should apply flexibility to its guidelines so that policies meant to encourage a minimum level of environmental stewardship do not hamper attempts to exceed it." (Sec. 6.4)				
	Staff: Concurs with the general approach outlined above. The Comprehensive Plan is a guide—it can therefore support the approach recommended by MITRE should such an opportunity arise. The county has a long history of implementing cutting-edge concepts and its innovative and successful	Stakeholders: No specific comments.	Further discussion needed? If so, on what issue(s)?	EC Position:

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