

Green Building Incentive Program 2014 Update

Arlington County Board Arlington County, VA November 15, 2014

History of Green Building Incentive Program

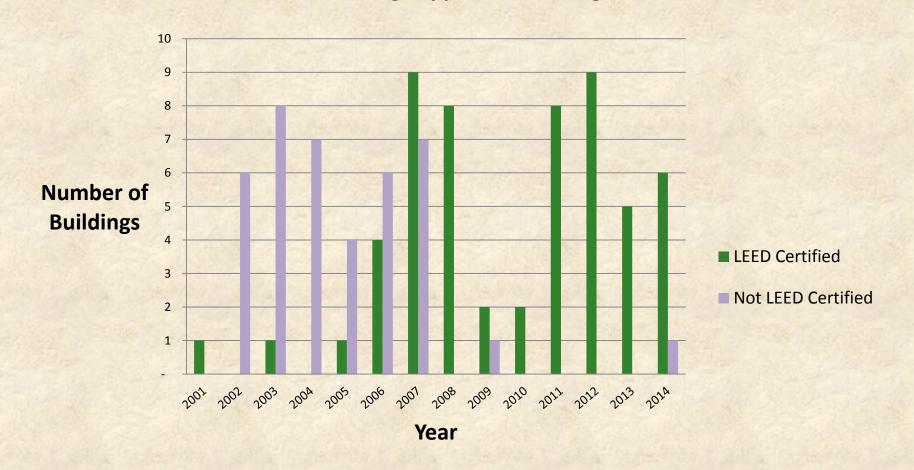


- Began in 2000
 - Incentive for LEED Silver only, commercial office only
- Update in 2003
 - Included all LEED levels and all site plan projects
- Update in 2009
 - Adjusted bonus to reflect market transformation
- Update in 2012
 - Focus on energy efficiency to align with Community Energy Plan goals, minor bonus adjustment
- Update in 2014
 - Energy performance, Arlington specific, minor bonus adjustment





Green Buildings Approved in Arlington





2014 Update



- LEED version 4
- ENERGY STAR building certification prerequisite for office, optional for multifamily
- Arlington Priority credits
- Earthcraft for VHDA tax credit affordable housing
- Net Zero Energy Certification



LEED Version 4



 U.S. Green Building Council updated the LEED green building rating system

Multi-family mid-rise

Energy efficiency







 Verifies performance based on one year of energy use

· Office vs. residential



Arlington Priority List



- Environmental issues addressed
 - Energy efficiency and renewables
 - Site ecology light pollution, habitat, stormwater
 - Building and materials reuse





Affordable Housing



- Allow use of Earthcraft to support green affordable housing
- VHDA program
- Gold and Platinum levels only



Net Zero Energy Certification



- International Living Futures Institute
- Annual energy use = Annual clean energy generated
- Negotiate bonus separately







Office and Residential						
Certification Level	LEED v4 (+E* for office)	Two Arlington priority credits	Total FAR available			
Silver	0.25 FAR	+ 0.05 FAR	0.30			
Gold	0.35	+ 0.05 FAR	0.40			
Platinum	0.50	+ 0.05 FAR	0.55			





2012 Policy		10/2	2014 Proposed Policy		
			Office and Residential		
LEED 2009 Office	Residential	68	LEED v4 (plus Energy Star for Office)		
Silver 0.20 FAR	0.25 FAR		0.25 FAR		
Gold 0.35	0.40		0.35		
Platinum 0.45	0.50		0.50		
Additional 0.10 FAR for LEED-EBOM	or Energy Star		 Additional 0.05 FAR for Arlington Priorities Energy Star Office – prerequisite Energy Star score of 75 Residential – Arlington Priorities allow an option for 0.025 FAR for Energy Star score of 75 Net Zero Energy certification: Negotiate additional density above 0.55 FAR for at least LEED Gold plus two Community Priority credits plus Net Zero Energy certification 		



Discussion



Supplemental Slides





Office

Existing - LEED Silver office earns 0.20 FAR bonus **Proposed** - LEED Silver office + Energy Star earns 0.25 FAR bonus

Residential

Existing - LEED Silver residential earns 0.25 FAR bonus

<u>Proposed</u> - LEED Silver residential earns 0.25 FAR bonus



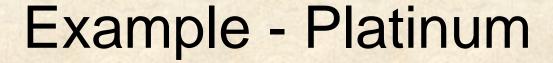


Office

Existing - LEED Gold office earns 0.35 FAR bonus **Proposed** - LEED Gold office + Energy Star earns 0.35 FAR bonus

Residential

Existing - LEED Gold residential earns 0.40 FAR bonus **Proposed** - LEED Gold residential earns 0.35 FAR bonus





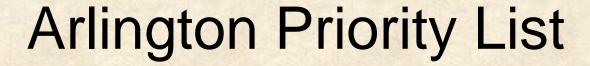
Office

Existing - LEED Platinum office earns 0.45 FAR bonus **Proposed** - LEED Platinum office + Energy Star earns 0.50 FAR bonus

Residential

Existing - LEED Platinum residential earns 0.50 FAR bonus

<u>Proposed</u> - LEED Platinum residential earns 0.50 FAR bonus





Arlington Priority Options – Select up to two Earn 0.025 FAR for each - up to 0.05 bonus	Office	Residential / Hotel	Compliance Review
Energy Star Certification with at least a score of 75 (Residential only)		√	U.S. DOE / EPA
Optimize Energy Performance (nine percent improvement over LEED baseline)	✓	✓	LEED
Further Optimize Energy Performance (twelve percent over LEED baseline)	✓	✓	LEED
Envelope Commissioning	✓	✓	LEED
Renewable Energy Production (one percent)	√	/	LEED
Habitat Restoration – Onsite	√	/	LEED
Light Pollution and Bird Friendly Façade	✓	√	LEED
Building Reuse and Materials Salvage	✓	✓	LEED





- Design Thinking Process March-June 2014
- E2C2 July 2014
- NAOIP and subgroup July-Oct 2014
- Community Energy Plan Implementation Review Committee (CEPIRC) – August 2014
- LRPC September 2014
- EDC October 2014
- Planning Commission November 2014
- County Board November 2014

LEED Bonus Awarded – 2010 to present



Development Name	LEED level	LEED Bonus FAR awarded	Gross Floor Area	Density Sq Ft	Density as a % of GFA
Dominion Heights	Gold	0.393	77,938	15,472	20%
1900 Wilson Blvd	Silver	0.20	215,563	14,716	7%
Founder's Square north office (C1)	Gold	0.35	426,480	20,200	5%
Founders Square south office (B1)	Silver	0.25	355,530	14,572	4%
Founder's Square hotel (B2)	Silver	0.25	154,380	14,572	9%
Founder's Square resid (C2)	Silver	0.25	238,060	14,572	6%
Wakefield Manor	Silver	0.20	173,600	16,185	9%
Virginia Square Towers	Gold	0.40	508,022	44,618	9%
1300 17TH ST N	Certified LEED EB	0.03	411,679	2,636	1%
3901 N Fairfax	Gold	0.35	183,391	15,928	9%
3001 Washington Blvd - Penzance	Silver	0.15	306,492	7,394	2%
650 N Glebe	Silver	0.20	139,071	7,358	5%
Verde Point (Bergmann's)	Gold	0.40	442,681	32,457	7%
2311 Wilson Blvd	Gold + Energy Star	0.45	157,395	13,375	8%
Pierce Queen	Silver	0.25	194,142	7,500	4%
Colony House (Hilton hotel)	Gold	0.32	128,509	17,325	13%
Latitude Apartments - LEED NC	Gold + LEED EB	0.50	269,615	16,228	6%
Marymount Residential - 1000 N. Glebe Rd	Gold	0.40	256,496	28,703	11%
Marymount Office - 1000 N. Glebe Rd	Gold	0.35	165,204	6,555	4%
2401 Wilson Hotel	Gold + Energy Star	0.50	94,415	7,650	8%
10th Street Flats	Gold	0.40	147,948	18,184	12%
					Average Bonus (% of tota
			5,046,611	336,199	7%

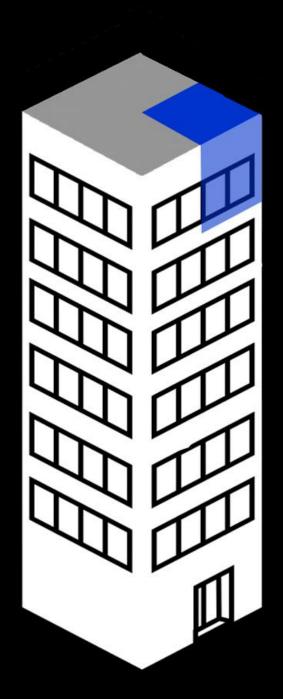
FAR bonus example – Navy League



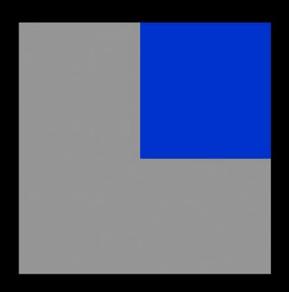
- Site area 49,273 s.f.
- LEED Silver 0.25 bonus FAR

 $49,273 \text{ s.f. } \times 0.25 = 12,318 \text{ s.f.}$

- Total Building Size 214,350 s.f.
- LEED bonus 12,318 s.f. (5.7% of total building size)



Floor Area Ratio = .25



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- Total Building Size 214,350 s.f.
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