

GREEN BUILDING QUESTIONNAIRE (COMMERCIAL BUILDING and MULTI-FAMILY HOUSING)

Applicant: _____

Project Address: _____

Multi-Family: _____ Sq. Ft. Area _____ Units

Commercial: _____ Sq. Ft. Area _____ Units

Instructions for Use: The following questionnaire is a non-binding document used to both educate the applicant about Green Building measures (and how these can save money over time) and to inform the Borough's Department of Building, Housing and Codes Enforcement and the BLUER Committee about the Project's specific green initiatives. Applicants will find detailed information on each question by clicking on the highlighted link embedded within each question (or referencing associated footnote on the last page). Each applicant is asked to complete and sign the questionnaire to indicate they reviewed the questions and submit to the Borough's Department of Building, Housing and Code Enforcement with their Land Development Application for record. Additional information is available through www.wcbluer.org and www.west-chester.com.

GENERAL			
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Is the Project pursuing LEED Certification ¹ from the US Green Building Council?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA	Is the Project designed to achieve the ENERGY STAR ² ?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA	Is the Applicant aware of Rebates ³ available through local utilities and tax incentives for Projects that incorporate energy efficient measures?

ENERGY EFFICIENCY			
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	If the Project is a Renovation, does the scope include Heating, Ventilation and/or Air Conditioning Equipment efficiency upgrades ⁴ ?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	If the Project is a Renovation, does the scope include electrical and lighting equipment efficiency upgrades ⁵ ?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project include Fundamental Commissioning ⁶ of the building energy systems?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Is the project designed to meet minimum levels of energy efficiency ⁷ as Established by ASHRAE 90.1-2007?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project utilize a whole building Energy Model ⁸ ? If yes, please submit copy for record with Building Permit Application.

<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project utilize or make allowances for renewable energy technologies ⁹ ? If yes, what percentage of the total energy usage: _____
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the project utilize Energy Star rated appliances and equipment ¹⁰ ?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project utilize high efficiency light fixtures and/or energy efficient lighting controls ¹¹ such as occupancy sensors as well as daylight sensors?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project utilize individual electrical metering ¹² in multifamily units to reduce electricity consumption?

SITE DESIGN			
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project incorporate tree preservation or enhancement ¹³ in order to provide urban habitat for wildlife, provide cooling effect for pavement and rooftops, reduce stormwater runoff and provide for cleaner air?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Are native plantings ¹⁴ with minimal water requirements incorporated into the non-stormwater related landscaping features?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Are low impact design (LID) techniques ¹⁵ incorporated into the site design, (i.e. vegetated conveyance techniques, rain gardens, permeable pavements, vegetated (“green”) roof, stormwater planters, or vegetated curb extensions, etc.) to provide for stormwater infiltration and evapo-transpiration?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project utilize methods to minimize the heat island effect ¹⁶ generated from rooftops, parking areas, streets and driveways?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project provide preferred parking for Low-Emitting/Fuel-Efficient Vehicles ¹⁷ and/or car pooling?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project allow for reduced parking requirements, credit for shared parking or street parking, or under-structure parking ¹⁸ ?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project provide smart transportation options ¹⁹ , including access to public transit, along with bicycle racks, signage and storage facilities?

MATERIAL RESOURCE			
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project provide easily-accessible dedicated area or areas for the collection and storage of materials for recycling ²⁰ for the entire building? Materials include: paper, corrugated cardboard, glass, plastics and metals.
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	If trash is removed by a private hauler, does the building owner or tenant have a contract in place for recycling collection ²¹ ?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	If the project includes a restaurant, does the building owner or tenant have a waste food collection program in place for compost ²² ?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Is there a requirement specifying a diversion (from landfilling) ²³ for Construction, Demolition or Renovation materials?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project make allowances for green renovations or technologies that retain the historic character of registered historic properties or resources ²⁴ ?
			Does the Project promote the use of environmentally responsible materials ²⁵ ?

WATER EFFICIENCY			
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Is the use of high efficiency ²⁶ and innovative plumbing fixtures and fittings, such as WaterSense labeled, utilized to reduce water consumption?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project utilize individual metering ²⁷ in multifamily units to reduce water consumption?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Is the use of rainwater harvesting systems ²⁸ utilized for outdoor irrigation to reduce unnecessary use of potable water?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	In lieu of the above, is there a requirement for using native plants ²⁹ that will reduce the use of water for landscape maintenance?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Are innovative waste water technologies ³⁰ utilized to reduce generation of waste water and potable water demand?

		<input type="checkbox"/> N/A	If yes to the above, please explain:
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INDOOR AIR QUALITY			
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	For multi-tenant residential buildings, does the project prohibit smoking ³¹ in common areas and design building envelope and systems to minimize ETS transfer among dwelling units?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project make provisions for bettering the Indoor Air Quality ³² (i.e., meeting the standards of ASHRAE 62.1-2007 (sections 4-7), among others)? This may also include separate ventilation for Janitor's Closets, copy rooms and maintenance shops, entry way systems or high efficiency air filters.
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project utilize low-emitting materials (low or zero VOC) ³³ ?
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Does the Project reduce the potential presence of mold ³⁴ through preventive design and construction measures AND training of maintenance personnel?

By signing below, you indicate that you have read and completed the above questionnaire.

(signature of applicant) *(date)*

(printed name of applicant) *(date)*

REFERENCES

GENERAL

- ¹ <http://www.usgbc.org/DisplayPage.aspx?CategoryID=19>
- ² http://www.energystar.gov/index.cfm?c=business.bus_index
- ³ http://www.energystar.gov/index.cfm?c=tax_credits.tx_index

ENERGY EFFICIENCY

- ⁴ <http://www.business.gov/manage/green-business/energy-efficiency/upgrades/hvac.html>
- ⁵ <http://www.business.gov/manage/green-business/energy-efficiency/upgrades/lighting.html>
- ⁶ <http://cx.lbl.gov/2009-assessment.html>
- ⁷ http://www.energycodes.gov/publications/techassist/commercial/Commercial_Pennsylvania.pdf
- ⁸ http://www.energystar.gov/index.cfm?c=cbd_guidebook.cbd_guidebook_set_targets_2
- ⁹ <http://www.rearch.umn.edu/resources.html>
- ¹⁰ http://www.energystar.gov/index.cfm?c=products.pr_find_es_products
- ¹¹ http://www.energystar.gov/index.cfm?c=sb_guidebook.sb_guidebook_lighting
- ¹² <http://www.homeenergy.org/archive/hem.dis.anl.gov/eehem/99/990714.html>

SITE DESIGN

- ¹³ <http://www.fs.fed.us/ucf/>
- ¹⁴ <http://www.dcnr.state.pa.us/forestry/communitytrees/index.htm>
- ¹⁵ <http://www.epa.gov/owow/NPS/lid/>
- ¹⁶ <http://www.epa.gov/heatisd/>
- ¹⁷ <http://greencars.org/news.htm>
- ¹⁸ http://www.stormwatercenter.net/Assorted%20Fact%20Sheets/Tool4_Site_Design/GreenParking.htm
- ¹⁹ <http://www.smart-transportation.com/guidebook.html>

MATERIAL RESOURCE

- ²⁰ <http://earth911.com/recycling/>
- ²¹ <http://earth911.com/how-to/how-to-create-a-workplace-recycling-program/#Haul>
- ²² <http://www.epa.gov/waste/conserves/materials/organics/food/index.htm>
- ²³ <http://www.wbdg.org/resources/cwmgmt.php>
- ²⁴ <http://www.preservationnation.org/issues/sustainability/>
- ²⁵ <http://www.epa.gov/greenhomes/SmarterMaterialChoices.htm>

WATER EFFICIENCY

- ²⁶ <http://www.epa.gov/WaterSense/>
- ²⁷ http://www.epa.gov/watersense/docs/app_a508.pdf
- ²⁸ <http://www.arcsa-usa.org/>
- ²⁹ <http://www.dcnr.state.pa.us/forestry/communitytrees/index.htm>
- ³⁰ <http://water.epa.gov/aboutow/owm/aboutowm.cfm>

INDOOR AIR QUALITY

- ³¹ <http://www.epa.gov/smokefree/community.html>
- ³² <http://www.epa.gov/iaq/index.html>
- ³³ <http://www.epa.gov/iaq/voc.html>
- ³⁴ <http://www.epa.gov/mold/>