Martin O'Malley Governor

Anthony G. Brown L1. Governor



Alvin C. Collins Secretary

# MARYLAND DEPARTMENT OF GENERAL SERVICES

October 31, 2014

The Honorable Martin O'Malley Governor State House Annapolis, Maryland 21401-1991

The Honorable Thomas V. (Mike) Miller, Jr. President of the Senate H-107 State House Annapolis, MD 21401

The Honorable Michael E. Busch Speaker of the House of Delegates H-101 State House Annapolis, MD 21401

Re: Department of General Services – 2014 Annual Report of the Green Building Council

Dear Governor O'Malley, President Miller and Speaker Busch:

The Department of General Services (DGS) respectfully requests an extension to file the 2014 Report of the Green Building Council. A 60-day extension is requested, until December 31, 2014, in order to submit the report.

Should you have any questions or require additional information, please feel free to contact Lauren Buckler, Assistant Secretary, by phone at 410-767-3174 or via e-mail at Lauren.Buckler@maryland.gov.

Sincerely,

Bart L. Thomas Deputy Secretary

cc: Lauren Bucker, Assistant Secretary Ellen Robertson, Legislative Liaison

301 West Preston Street Baltimore, Maryland 21201-2305 (410) 767-4960 FAX (410) 333-5480 Toll Free 1-800-449-4347 e-mail: Alvin.Collins@dgs.state.md.us TTY users 1-800-735-2258

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# <u>Maryland</u> <u>Green Building Council</u>

# 2014 Annual Report



Presented to Governor Martin O'Malley and the Maryland General Assembly December 31, 2014





### ON THE COVER:

Rendering UMD Bioengineering Building

# **PRODUCTION CREDITS:**

Stephen Gilliss, Architect, Maryland Department of General Services Tom Nappi, Graphic Design, Maryland Department of Human Resources

MARYLAND GREEN BUILDING COUNCIL



Alvin C. Collins Secretary

Martin O'Malley Governor Anthony G. Brown Lt. Governor

#### MARYLAND DEPARTMENT OF GENERAL SERVICES OFFICE OF THE SECRETARY

December 31, 2014

The Honorable Martin O'Malley Governor of Maryland

The Honorable Thomas V. Mike Miller, Jr. President of the Senate

The Honorable Michael E. Busch Speaker of the House of Delegates

The Honorable Members of the General Assembly of Maryland

RE: Maryland Green Building Council Annual Report

Ladies and Gentlemen:

This year, the Council activities have been largely focused on the task of adapting the International Green Construction Code (IgCC) for use as an alternate standard under the State's latest green building laws. The Council reviewed and amended the code to better meet Maryland's special needs while conforming to existing green building legislation. Through several rounds of drafts and public comments, a final document was recommended and approved by the Secretaries of DGS and DBM. The result of this work is that Using Agencies and project designers for the design and construction of State buildings and public schools now have a choice of two paths with which to comply with green building laws. This choice provides for a consistent normative code based path or the credit based LEED path and its flexible approach to meeting a project's specific green vision.

Council members contributed countless hours this year to the IgCC effort. While many other states and jurisdictions hire consulting firms to help with this important effort, Maryland's Council accomplished the feat with dedicated DGS staff and diligent volunteer appointees. It was a remarkable achievement.

The Council also convened a panel of solar energy contractors and experts on Maryland's solar industry. As buildings move toward greater efficiency, the Council is looking for ways to economically power them as well. The Council sees renewable

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Martin O'Malley Governor Anthony G. Brown Lt. Governor



Alvin C. Collins Secretary

### MARYLAND DEPARTMENT OF GENERAL SERVICES OFFICE OF THE SECRETARY

energy at the building level as an integral part of the economic future for Maryland and will continue to work to distill the complex technical and financial information further to integrate the concepts into its work and recommendations.

As the year closes, the Council has tasked itself with sharpening its vision statement as a blueprint for future activities. December will see the Council sequester itself with members of the Administration, Transition team, and Legislature to devise a vision for Maryland green building for the next 10 years. This new vision should help the Council map out action plans for years to come and help demonstrate Maryland's leadership in building sustainability and self-reliance.

As we look forward to 2015, the Council envisions being part of increased collaboration and training with state jurisdictions. Green building and energy codes require inspectors, officials, and reviewers to be up to date on specific green building knowledge. The Council intends to aid in this training and knowledge transfer as much as possible to help with compliance and growth of green building in the State.

It is an honor to serve the people of the State of Maryland in the fields of sustainability and green building.

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Prescott Gaylord, LEED AP BD+C and Homes Chair, Maryland Green Building Council

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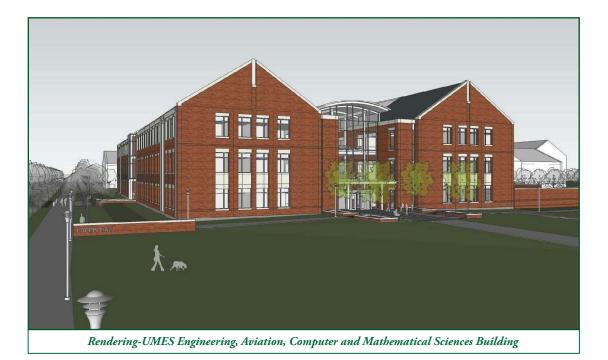


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Rendering UMD Bioengineering Building





#### MARYLAND GREEN BUILDING COUNCIL MEMBERSHIP

#### **Public Appointees**

Prescott Gaylord, LEED AP BD+C and Homes - Chair Gensler 1 East Pratt Street Suite 202 Baltimore MD 21202 USA 410.539.8776 Main prescott\_gaylord@gensler.com

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#### Department Members/Designees

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Department of Natural Resources Helen Stewart Office for a Sustainable Future Tawes State Office Building 580 Taylor Avenue Annapolis, MD 21401 410.260.8783 hstewart@dnr.state.md.us

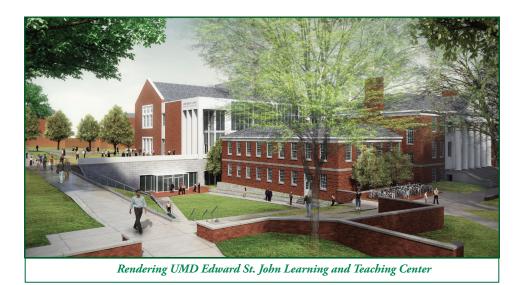
#### Maryland Department of Planning

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Maryland Department of Transportation Meg Andrews, Environmental Planning Manager Office of Planning & Capital Programming 7201 Corporate Center Drive P.O. Box 548 Hanover, MD. 21076 410.865.1287 mandrews1@mdot.state.md.us Maryland Department of the Environment David Costello, Deputy Secretary for Policy and Planning Montgomery Park Business Center 1800 Washington Boulevard Baltimore, MD 21230-1718 410.537.3084 dcostello@ Maryland.gov

University System of Maryland Mark Beck, Director of Capital Planning University System of Maryland 3300 Metzerott Road Adelphi, MD 20783 301.445.1984 mbeck@usmd.edu

Interagency Committee on School Construction David Lever, Executive Director Interagency Committee on School Construction 200 West Baltimore Street Baltimore, MD 21201 410.767.0610 dlever@msde.state.md.us



MAR LAND Smart, Green & Growing



# **INTRODUCTION**

The 2014 Annual Report of the Maryland Green Building Council (the Council) is written to comply with the requirement of Chapter 116 of the 2007 Laws of Maryland, which directs the Council to report annually to the Governor and the General Assembly on the implementation and progress of the State High Performance Green Building Program. The plan for implementation of this program was submitted to executive and legislative leaders of the State of Maryland in January 2008 and was enacted into law as Chapter 124 of the 2008 Laws of Maryland. The primary purpose of this report is to provide a progress report, including brief updates on 2014 green building related legislative efforts, activities of the Council for 2014 and updates on buildings and building projects complying with the High Performance Buildings Act as well as other High Performance buildings in State service.

The year 2014 saw several changes in Council membership. Chair Tom Liebel, after three years, stepped down from that post but, eager to remain active on the Council, filled one of several vacancies. The Council thanks Tom for his hard work and dedication as Chair, especially in the development of Council's version of the International Green Construction Code (IgCC). Two other vacancies were filled when Lisa Ferretto AIA, LEED AP BD+C, Senior Associate, Sustainability Coordinator at Hord Coplan Macht Incorporated and Christine Varney, P.E., LEED AP, Senior Associate at Johnson, Mirmiran & Thompson were appointed to the Council as public members. Lisa and Christine contributed immediately, working on a special committee to complete the Council's IgCC supplement.

To fill the Chairperson vacancy, the Governor's office looked within the Council and appointed Prescott Gaylord, LEED AP BD+C and Homes. Prescott, originally appointed to the Council in May 2013, has had a multi-faceted career in both green building construction and consulting and now brings this unique perspective to the Chairmanship.





# I. COUNCIL ACTIVITIES

The year 2014 has been a focused one for the Council under the leadership of Chairs Tom Liebel and Prescott Gaylord. The primary focus was the continuing development of the Maryland Green Building Council supplement to the International Green Construction Code (IgCC), published by the International Code Council. This task, begun in the Council's 2013 session proved more complex and challenging than anticipated including a line by line study and adaptation of the code to create a Maryland-focused document representing the State's sustainability goals and principles. The 2014 effort also included an intense effort to create and pass legislation to add the alternate use of code based requirements to the original green building rating system.

The Council held formal meetings every month except January 2014, in addition to several special work sessions. The fourth Wednesday of each month has been designated as the regular Council meeting date.

In February, the Council met at the LEED Gold certified headquarters of the Maryland Department of Transportation (MDOT) in Hanover, Maryland. The Council welcomed its two new appointed members and then hosted a presentation on the new LEED V4 by Neal Fiorelli of the Lorax Partnership, a Columbia, Maryland based green building consultant. The main take away from the meeting was that this new version of LEED represents a major step up in rigor from previous versions. It has been subsequently learned that, due to some difficulties in implementation and compliance, LEED V4 will not become mandatory until 2016. The Council will likely need to revisit this topic in the coming year.

The March meeting included a presentation on NetZero schools and discussions on LEED for Existing Buildings and on the promotion of a reduction in water consumption for State buildings.

In April, the Council began preliminary discussions to update the Council's Green Building Program, a document which guides the implementation of the LEED rating system and which will need to be adapted to include the IgCC. The Council also planned the methodology for completing the IgCC supplement. It was at this meeting that a committee consisting of David St. Jean, Mark Beck, Martha Shrader of USM, Lisa Ferretto and Christine Varney was assembled by staff Stephen Gilliss to complete work on the code. This dedicated committee held countless conference calls though November to work out the final document to send to the Secretaries of DBM and DGS for their approval.

In May, David Lever, Executive Director of the Interagency Committee on School Construction, led a discussion of indoor air quality (IAQ) in portable classrooms and its implications for new construction and renovation projects in schools. In addition, at the request of State Stat, the Council participated in a discussion of Cross Laminated Timber (CLT) construction, a method of construction using more renewable wood material resources to build larger buildings. This method is gaining a foothold in Europe and could be viable in the U.S. with a change in building codes.



The June meeting saw the introduction of Prescott Gaylord as the new Chair, a presentation on the upcoming DGS Green Procurement Event, an update on the progress of the IgCC and the beginning of a discussion on the future "vision" for the Council.

In July, the Council discussed the use of the IgCC around the state, primarily in Baltimore City where it has been adopted to replace the City's own green code and in Montgomery County where it is expected to be implemented in early 2015 in lieu of LEED for all buildings, public and private. The Council also discussed possible topics and areas of interest for future meetings.

The August meeting was largely dedicated to a discussion of the "heat island effect" as it relates to Chapter 4 of the IgCC. This topic was presented at the request of lobbyists representing the asphalt industry in Maryland. The IgCC as written allows up to 50% of site hardscape (paving) to be dark, heat absorbing products such as asphalt. The remaining 50% must be light color reflective products , primarily concrete. After discussion, the Council voted to allow up to 70% of hardscape to be asphalt. The decision was based primarily on first costs of asphalt vs. lighter colored concrete.

The September meeting of the Council was a special work session to review the progress of the IgCC to date and make certain decisions. Another special follow up work session was held on October 2, 2014.

In October, the Council took up the topic of solar energy by conducting a special "solar panel" discussion. Prescott Gaylord moderated a panel of four experts from the local solar energy industry and a solar energy specialist from the Maryland Energy Administration (MEA). The experts presented for discussion various aspects of the Maryland solar market and ways to increase the use of solar energy in the State.

The November meeting consisted of a final discussion of any outstanding issues related to the proposed IgCC and included a vote to approve the code for recommendation to the Secretaries DBM and DGS. Also at this meeting, the IgCC "committee" was drafted for the task of updating the Council's Green Building Program implementation document to include public schools, the IgCC and updates on LEED compliance.

The December meeting saw a change of venue to the Angelos Law Center at the University of Baltimore for a facilitated "visioning" session for the Council on the future of green State buildings. The session also included a brief tour of this LEED Platinum building for inspirational purposes.

Another exciting event this year was the fulfillment of a longtime goal of the Council to have its own website which went live in May. The site is a one stop repository for Council meeting summaries, Council related laws and regulations, Annual Reports and member information. The site can be found at:

http://www.dgs.maryland.gov/Energy/GreenBuilding/index.html





# II. LEGISLATIVE REPORT: Maryland General Assembly 2014 Session

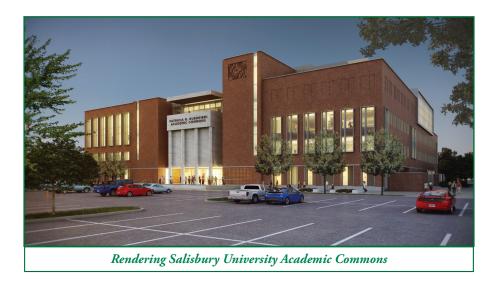
The Maryland Green Building Council (the Council) acts in an advisory capacity to the Governor and members of the General Assembly by reviewing legislation that pertains to high performance green building issues and provides assistance to policy makers when the General Assembly considers relevant legislation.

The Council as presently constituted views its function as one of providing current and wellresearched information and advice on green building issues to those who are responsible for enacting laws and regulations in this area.

For 2014 there were no major legislative proposals except for the Council's own House Bill 207. This bill was proposed to change current law to allow the use of Council approved codes such as the International Green Construction Code to redefine the definition of high performance buildings. The original green building legislation defined high performance buildings only with numerically based green building ratings systems such as LEED as there were no green codes at the time.

The Council found that the legislation was opposed by the Maryland Chapter of the US Green Building Council and the Maryland Chapter of the American Institute of Architects. Tom Liebel, David Lever, DGS staff Stephen Gilliss and DGS legislative liaisons Joan Cadden and Ellen Robertson met several times with the opposition and with the help of Delegate Dan Morhaim, dispelled their concerns and added language to assure public input. Tom, David and Stephen also testified at several House hearings to explain and support the legislation.

The legislation passed and was signed into law by Governor O'Malley on May 15, 2014 and went into effect on October 1, 2014.





# III. STATE HIGH PERFORMANCE GREEN BUILDING PROGRAM UPDATE

The number of State owned High Performance Green Buildings continues to grow in spite of the economic climate. The High Performance Green Building databases have been updated as much as the available information allows. Of the forty six (46) projects required to comply with the High Performance Building Act as fully State funded buildings, fifteen (15) have been completed while nine (9) are currently under construction and twenty one (21) are in various stages of planning and design. The fifteen completed buildings have achieved six (6) Silver ratings, eight (8) Gold ratings and one (1) Platinum Rating.

Of the fifty two (52) projects which are exempt but have been developed as high performance buildings, thirty four (34) are complete, eight (8) are under construction and ten (10) are in the planning and design phase. The completed buildings represent one (1) LEED Certified, nineteen (19) which were designed to or achieved LEED Silver and fourteen (14) LEED Gold ratings. Most of these projects are exempt only because they receive additional funding from sources outside of the State's Capital Budget resources.

For Fiscal Year 2015, several new State capital budget projects qualified to be designed under the High Performance Green Building Program and were funded for preliminary planning or design. These projects are highlighted below.

- A new 36-bed Youth Treatment Center for the Department of Juvenile Services is proposed to be constructed on the site of the former youth drill academy in Wicomico County.
- Frostburg State University will begin planning on a new 9,205 gross square foot University Public Safety Facility to comply with standards of the Commission on Accreditation for Law Enforcement Agencies. The budget estimate for the project is \$6 million.
- The University of Maryland Baltimore County was funded for the design of a new Interdisciplinary Life Sciences Building for Science, Technology, Engineering and Math (STEM) learning and life sciences research. The 131,000 gross square foot building will include active learning classrooms, multi-disciplinary teaching labs and technology equipped seminar rooms. Budget costs for the building are an estimated \$131 million.
- The University of Maryland Baltimore Campus was funded for design of a new Student Services Support Building to be built on the site of the old Soper Library. The 130,000 gross square foot building is expected to cost \$80.5 million.





STATUS	FACILITY LOCATION	PROJECT NAME	DEVELOPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS
Completed	St. Mary's College	Goodpaster Hall	DGS for SMC	Silver	52,000		2007	Classroom and laboratory building. Original green building pilot project
Completed	Gunpowder Falls State Park	Hammerman Beach Services Building	DGS for DNR	Silver	7,400		2007	Shower and bathing facilities, park offices and concessions. Original green building pilot project.
Completed	Annapolis Campus	Lowe House Office Building	DGS	Gold	83,900	\$6,497,000	12/1/2011	States' first green renovation project includes upgrading HVAC and electrical systems and integration with recent new addition.
Completed	Western Correctional Institute	Vocational Education Building	DPSCS	Silver	25,932	\$14,749,000	3/2012	Classrooms, laboratories,computer labs, office space, to retrain inmates. ATI Inc was the Architect
Completed	University of Baltimore	John and Frances Angelos Law Center	USM	Platinum	190,000	\$114,300,000	4/2013	The UB School of Law is the 6th largest public law school in the country and possibly the greenest. The new building is expected to achieve LEED Platinum status with with features such as revolutionary heating and cooling using an active slab system which keeps the structure temperature steady reducing the need for rheating and cooling. The building also features rainwater harvesting, a green roof, and automated windows. More info at http://www.ubalt.edu/template.cfm?page=2571
Completed	University of Maryland, Baltimore	Pharmacy Hall Addition	USM	Gold	128,591	\$81,000,000	2010	http://phaddition.blogspot.com/
Completed	North Branch Correctional Facility	MCE Upholstery and Reupholstery Plant	DPSCS	Silver	20,000	\$4,400,000	11/2011	"Construct a new Maryland Correctional Enterprises (MCE) building at the North Branch Correctional Institution (NBCI). The project will house an Upholstery and Re-Upholstery Plant with 100 inmate facility. NBCI currently does not have an MCE facility. Bushey Feight Morin Associates was the Architect
Completed	Morgan State University	Center for the Built Environment and Infrastructure Studies	Morgan State University	Gold	126,129	Ş-	08/2012	"Construct a new 68,009 NASF/126,129 GSF Center for the Built Environment and Infrastructure Studies. The Center houses the Institute for Architecture and Planning, the Department of Civil Engineering, and the Institute for Transportation Studies. For more information see http://www. morgan.edu/School_of_Architecture_and_ Planning/Center_for_the_Built_Environment_and_ Infrastructure_Studies_(CBEIS).html Green features include extensive use of photovoltaic panels and solar hot water, passive cooling, operable interconnected windows, bicycle facilities, daylighting, rain harvesting, green cleaning, educational green screen, pervious parking lot "
Completed	Salisbury University	Perdue School of Business	USM	Gold	113,000	\$46,527,901	2011	http://www.salisbury.edu/perdue/
Completed	Towson University	Liberal Arts Complex	USM	Gold	253,000	\$147,500,000	07/2011	"Construct a new building in two phases (the first, 100,000 GSF; the second 153,000 GSF) to consolidate and expand the units of the College of Liberal Arts that are now dispersed among three other buildings. http://mlis.state.md.us/2009RS/ budget_docs/All/Capital/RB24ATowson_Univ_ New_College_of_Liberal_Arts_Complex.pdf "





STATUS	Facility Location	PROJECT NAME	DEVELOPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS
Completed	Jessup Community Correctional Facility	Dorsey Run Correctional Facility	DPSCS	Certified SSB, Silver Housing Unit #1, Silver Housing Unit #2 (3 certifications) (estimate)	83,306 Phase I	\$24,000,000 Phase I.	July 2013 for Phase I	Construct a new minimum security complex consisting of two adjacent minimum security compounds for 560 inmates each. The new facility will contain housing, inmate transition services, educational, and recreational functions. Project is being done as a design - build construction delivery method. The Design Submittal is going through the Appeal process right now but seems as though Silver will not be achievable and Certified rating will be achieved on the Services Support Building.
Construction	Morgan State University	Business Management Complex at Northwood Shopping Center	MSU	Gold (est)	136,895	\$58,425,000	2015	"Construct a new School of Business Complex at the Northwood Shopping Center. The proposed building will house the School of Business and Management which includes the Hospitality Management program. Features include green roof, daylighting, green cleaning, enrgy and water conservation, operable windows, bike facilities, reserved parking for efficient vehicles.
Completed	University of Maryland College Park	Physical Sciences Complex Phase 1	USM	Gold	160,246	\$118,474,123	2013	"http://www.hdrinc.com/portfolio/physical- sciences-complex http://oxblue.com/open/gilbane/umcp"
Construction	Maryland State Department of Education	Western Maryland Regional Library		Silver (est)	91,000	\$24,500,000	no schedule provided	Renovate and expand the W MD Regional Library that serves Garrett, Allegany and Washington Counties
Complete (new addition- renovation portion proceeding under new contract)	Deer's Head Hospital Center, Salisbury MD.	Kidney Dialysis Addition and Renovation	DGS for DHMH	Silver (est)	7,800 gsf new 7,130 gsf renovation	\$4,760,000	4/1/2014 (new addition)	Add new dialysis wing to increase the number and size of the existing dialysis stations. Convert the former dialysis space into administrative and support functions for the new wing.
Substantially Complete	Department of Health and Mental Hygiene	State Public Health Laboratory	Maryland Economic Development Corporation (MEDCO) for DHMH	Gold expected	196,000	\$165,000,000	4/19/2014	Replaces outdated labs located at State Center. Planned for six lab divisions, support services and administration
Substantially Complete	Frostburg State University	Center for Communications and Information Technology	USM	Gold (est)	127,000	\$64,519,000	2014	http://www.frostburg.edu/budget/budget- resources/capital-budget-projects/
Demolition of existing building	St. Mary's College	Anne Arundel Hall	St. Mary's College	Gold (est)	33,700	\$29,163,000	07/2016	"Demolish the existing 27,400 GSF Anne Arundel Hall and replace it with a new 33,700 GSF building on the same site. The new facility will house the history, anthropology, archaeology, and international languages and cultures programs of the College. The building will feature 19.8KV Photovoltaic roof mounted power system and wil be heated and cooled using ground source heat pumps. Demolition rubble from the old building is to be recycled."





STATUS	FACILITY LOCATION	PROJECT NAME	DEVELOPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS
Construction Mobilization	Coppin State University	New Science and Technology Center	USM	Gold (est)	134,882	\$81,748,000	2015	"Construct a new academic facility to house all science-related disciplines, including the Departments of Natural Sciences, Mathematics and Computer Science, and Management Science and Economics.Facility will contain faculty and staff offices, computerized laboratories, networking hardware and software systems, classrooms, class laboratories, conference areas, meeting rooms, and support areas. The facility will also include a satellite central utilities building. http://www. coppin.edu/info/200871/science_and_technology_ center
Construction	Jessup Community Correctional Facility	Dorsey Run Correctional Facility - Phase II	DPSCS	Silver (est)	82,000 Phase II	\$26,264,000 Phase II	Phase II funding is anticipated in FY14-16	Similar to Phase I above - additional 560 bed facility inlcuding three buildings, Support Services and 2 Housing Units (#3 and #4).
Construction (20% complete)	Harriet Tubman Underground Railroad StatePark	Harriet Tubman Underground Railroad Interpretive Center	DGS for DNR	Silver (est)	15,000	\$14,200,000	11/19/2015	Exhibit space, orientation film theater, library, gift shop and multipurpose meeting space. Memorial garden, trails, picnic pavilion and information kiosk.
Construction (45% complete)	Cheltenham Youth Detention Center	Cheltenham Youth Facility, Prince George's County	DGS for DJS	Silver (est)	99,000	\$48,309,000	2/15/2016	Construct a new 72 bed juvenile detention center to replace the existing outdated facility. New facility will provide sleeping, dining, education, training, recreation, counseling, somatic and mental health services and visitation.
Development	University of Maryland, Baltimore County	Performing Arts and Humanities Building, Phase I	USM	Silver (est)	91,100	\$84,200,000	2012	http://www.umbc.edu/pahb/
Design	Morgan State University	Jenkins Behavioral Sciences Center	MSU	Gold (goal)	148,229	\$64,000,000	2017	Construct a new building to house the Behavioral and Social Sciences. The proposed facility will replace the existing Jenkins Behavioral and Social Sciences Building.
Construction	University of Maryland Eastern Shore	Aviation and Engineering Sciences Bldg	USM	Gold (est)	163,000	\$91,700,000	2015	Construct a replacement facility for the existing Aviation Science and Engineering Building at the University of Maryland, Eastern Shore. The new facility will house the Aviation Science and Engineering program, the Departments of Computer Science, Mathematics, and Technology.
Design	Bowie State University	Natural Sciences, Mathematics and Nursing Center	USM	Gold (est)	149,930	\$89,386,000	2017	This building replaces the Crawford Science Building and addresses numerous facility problems such as insufficient class laboratoriesand support space, lack of specialized class laboratories, insuffuicient office space, and inadequate building systems. The building will be located at the former site of the Wiseman Center and includes the demolition of the existing Crawford Bldg.
Construction	University of Maryland Center for Environmental Science - Chesapeake Biological Laboratory	Truitt Lab Replacement	USM	Gold (est)	20,764	\$15,789,000	2015	Demolish the existing RV Truitt Building and construct a new 2-story research laboratory building with modular wet laboratories with running fresh water and seawater, teaching laboratories, culture labs, faculty offices, conference room and seawater processing room/pumphouse.





STATUS	FACILITY LOCATION	PROJECT NAME	DEVELOPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS
Design	University of Maryland Shady Grove	Biomedical Education Facility	USM	Gold (est)	220,000	\$159,150,000	2018	Design and construct a Biomedical Sciences and Engineering Education Facility. Building will provide specialized laboratory space to support new academic programs such as Engineering and Dentistry, additional space for Pharmacy, Nursing, classrooms, laboratories, clinical training, faculty and staff offices. and academic support space is also being provided.
Construction Documents	Baltimore City Detention Center	Youth Detention Center	DPSCS	Silver/Gold (est)	60,000	\$34,000,000	October 2016 (estimate)	Phase - Construction Documents to be complete end of 2014
Schematic Design	Board of Public Works - Judiciary	Catonsville District Court	DGS	Silver	125,000	\$61,000,000	no schedule provided	The building will house seven new courtrooms in Catonsville, Baltimore County. This will be the State's first courthouse built under the high performance building act.
Schematic Design	Department of Natural Resources	Wellington Wildlife Management Area Shop and Offices	DGS	not certified	not provided	\$2,876,000	no schedule provided	New construction portion of the project is too small for LEED certification however the rpoject will include green enhancements such as geothermal HVAC and green roof.
Design	Towson University	Addition and Renovation of Smith Hall	USM	Silver	106,700 gsf expansion 215,245 renovation	\$156,050,000	no schedule provided	The building will house the Fisher College of Science and Mathematics
Programming	Baltimore City Detention Center	Women's Detention Center	DPSCS	Silver/Gold (est)			Programming complete, awaiting DBM approval	512 bed women's detention center with sleeping, dining, education, training, recreation, counseling, somatic and mental health services and visitation.
Planning	New Classroom and Engineering Laboratory Building	Southern Maryland Higher Education Center	SMHEC/USM	Silver (min)	TBD	46,500,000	2018	Construct a third academic building on the Southern Maryland Higher Education Center campus to address space deficiencies due to increased enrollment and the expansion of programs offered at the facility. Partners in the development are the SMHEC, the University System of Maryland and the Southern Maryland Navy Alliance.
Development	University of Maryland, Baltimore	Health Sciences Facility III	USM	Silver (est)	332,000	\$283,000,000	2018(est)	Construct a new research building for the Schools of Medecine, Pharmacy and Dentistry. The facility will be located on the site presently occupied by Hayden-Harris Hall at 666 West Baltimore Street http://www.budget.umaryland.edu/capitalbudget/ health_sciences_facility.html
Schematic Design as of February 2015	Department of Juvenile Services	New Female Detention Center	DJS	Silver (est)	92,803	\$55,092,000	12/1/2018	This 48 bed facility, to be located on the grounds of the former O'Farrell Center in Carroll County will serve female youth pending court disposition or post-adjudication placement.
Planning	Board of Public Works	Annapolis Post Office renovation and addition	DGS	Silver	39,119	\$13,470,000	no schedule provided	This project will renovate and expand te existing Annapolis Post Office Building to provide office space for State agencies currently leasing space.





STATUS	FACILITY LOCATION	PROJECT NAME	DEVELOPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS
Planning	State Library Resource Center	Central Branch Enoch Pratt Free Library System	DGS for EPFLS	Silver (est)	290,000	\$79,000,000	08/ 2018	Improve building systems and life safety components
Site Acquisition	Southern Regional Childrens Center	Southern Regional Childrens Center	DGS for DJS	Silver (min)	78,806	\$36,420,000	Site has not yet been selected or acquired	Construct a new 48 bed secure detention center in Southern Maryland. The new facility will include space for housing, dietary services, educatiojn, somatic and behavioral health, recreation, administration and general support.
Planning	Springfield Hospital Center	Secure Evaluation and Therapeutic Treatment Center (SETT)	DGS for DHMH	Silver (min)	35,000	TBD		Construct a 32 bed facility to house individuals with development disabilities and forensic involvement
Design	Frostburg State University	Public Safety Facility	USM	Silver (min)	9,205	5,950,000	2019	New facility to house FSU's Police Department
Planning	University of Maryland Center for Environmental Science - Chesapeake Biological Laboratory	Communications Services Building	USM	Silver (min)	12,600	14,086,000	2018	
Planning	University of Maryland College Park	MFRI Western Maryland Regional Training Center Upgrade	USM	Silver (min)	TBD	5,800,000	2017	
Planning	Morgan State University	New Student Services Support Building	MSU	Silver (min)	180,000	80,450,000		Construct a new 130,000 GSF/ 71,595 NASF building to house the student support services functions of the University on the site of the old Soper Library.
Planning	University of Maryland Baltimore County	Interdisciplinary Life Sciences Building	USM	Silver (min)	131,000	123,452,000		Construct a new building for interdisciplinary STEM learning and life sciences research. The facility will include active learning classrooms, multi-disciplinary teaching labs, and technology- equipped seminar rooms that will allow course redesign to enhance student learning and success, leading to increased degree production in high need areas of STEM programs.
Planning	Department of Juvenile Services	Lower Shore Treatment Center	DGS for DJS	Silver (min)	48,531	60,566,000		New thirty six (36) bed hardware secure treatment center to serve male youth whom the courts have committed to DJS for secure residential treatment.





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STATUS	FACILITY LOCATION	PROJECT NAME	DEVELOPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS
Completed	MDOT Headquarters Anne Arundel County	Harry R. Hughes Building	MDOT	Gold	22,000	unavailable	2002	"Houses the Office of the Secretary and several divisions of MDOT. Promotes Transit-Oriented-Development. Uses 48% less energy than the ASHRAE baseline. Incorporates rapidly renewable, recycled content, post-industrial, post-consumer materials. Water conservation is achieved through the use of waterless urinalsand sensors and aerators on showers and faucets.s A state-of-the-art storm-water management system was utilized to create zero net increase in storm-water runoff recharges wetlands which are permanently preserved by a conservation easement.
Completed	Coppin State University	Physical Education complex	USM	Silver	246,359	\$127,663,000.00	2010	The Physical Education building received a LEED silver rating. The PEC has 2,040 roof-mounted crystalline photovoltaic solar panels, that supply more than 600,000 kilowatt-hours of electricity annually. http://www.coppin.edu/capitalplanning/ PEC.aspx
Completed	Frostburg State University	Lane Student Center Renovation & Expansion	USM	Gold (est)	76,000	\$19,285,000.00	2011	http://www.frostburg.edu/budget/lane-center-renovation/
Completed	Salisbury University	Pocomoke Hall Renovation	USM	Gold	22,000	\$6,941,026.00	2010	http://www.salisbury.edu/fpcp/housing/overview.html
Completed	Salisbury University	Manokin Hall Renovation	USM	Gold	22,000	\$5,837,504.00	2010	http://www.salisbury.edu/fpcp/housing/overview.html
Completed	Salisbury University	Wicomico Hall Renovation	USM	Gold	22,000	\$6,878,205.00	2011	http://www.salisbury.edu/fpcp/housing/overview.html
Completed	Salisbury University	Nanticoke Hall Renovation	USM	Gold (est)	36,000	\$11,094,364.00	2011	http://www.salisbury.edu/fpcp/housing/overview.html
Completed	Towson University	West Village Housing	USM	Silver	159,000	\$35,000,000.00	2011	http://www.towson.edu/adminfinance/ facilities/archengconst/campusconstruction/ AECCurrentProjects2_000.asp
Completed	Towson University	West Village Commons	USM	Silver	85,000	\$41,000,000.00	2011	http://www.towson.edu/adminfinance/ facilities/archengconst/campusconstruction/ AECCurrentProjects2_000.asp
Completed	Universities at Shady Grove	Camille Kendall Academic Center	USM	Gold	195,000	\$54,586,521.00	2007	http://www.shadygrove.umd.edu/about/campus- sustainability/sgiii/green-features
Completed	University of Maryland Eastern Shore	Somerset Hall Renovation for School of Pharmacy	USM	Gold	22,000	\$6,500,000.00	2010	http://www.delmarvanow.com/article/20110731/ BUSINESS/107310318/UMES-hall-goes-green
Completed	University of Maryland University College	Marriott Inn and Conference Center	USM	Certified	110,000	\$21,000,000.00	2004	http://www.marriott.com/hotels/travel/wasum-the- marriott-inn-and-conference-center-university-of-maryland- university-college/
Completed	University of Maryland University College	Center of Academic Operations (Largo)	USM	Gold	236,000	\$60,000,000.00	2009	http://www.umuc.edu/visitors/news/pressreleases/news321. cfm
Completed	Bowie State University	Wiseman Student Center	USM	Gold (est)	95,685	\$41,540,000.00	2013	http://www.bowiestate.edu/campus-life/wiseman-student- center/
Completed	Salisbury University	Teacher Education Technology Center	USM	Silver	165,000	\$63,568,568.00	2008	http://www.salisbury.edu/newsevents/fullstoryview. asp?id=3691





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STATUS	FACILITY LOCATION	PROJECT NAME	DEVELOPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS
Completed	Salisbury University	Seagull Square Development	USM	Silver	230,000	\$40,862,109.00	2011	http://www.salisbury.edu/fpcp/sgs/factsheet.html
Completed	Towson University	Tiger Arena	USM	Silver (est)	110,000	\$50,000,000.00	2012	http://www.tigerarena.com/TigerArena.dbml?DB_OEM_ ID=21300
Completed	University of Maryland, Baltimore County	Research Park Building	USM	Silver	110,400	\$25,000,000.00	2008	http://www.bwtechumbc.com//pdf/5520_factsheet_rev09. pdf
Completed	University of Maryland, College Park	M Square	USM	Silver	120,000	\$23,000,000.00	2007	http://www.newsdesk.umd.edu/uniini/release. cfm?articleID=1661
Completed	University of Maryland, College Park	M Square	USM	Silver	120,000	\$29,000,000.00	2009	http://www.newsdesk.umd.edu/uniini/release. cfm?articleID=1661
Completed	University of Maryland, College Park	John S. & James L. Knight Hall	USM	Gold	53,400	\$28,490,000.00	2010	http://www.merrill.umd.edu/deadline/index. php/2010/08/27/knight-hall-certified-as-first-green-building- at-university-of-maryland-college-park/
Completed	University of Maryland, College Park	Denton Dining Hall	USM	Silver	43,859	\$17,384,922.00	2010	http://www.sustainability.umd.edu/content/campus/dining. php#Denton
Completed	University of Maryland, College Park	Fraternity/ Sorority Renovations Ph. 9	USM	Silver	22,278	\$13,730,000.00	2012	http://greek.umd.edu/2013/08/08/sorority-houses-achieve- leed-silver-rating/
Completed	University of Maryland, College Park	Shuttle Bus Building	USM	Silver	10,906	\$7,322,000.00	2012	http://www.sustainability.umd.edu/content/campus/green_ buildings.php#ShuttleUM
Completed	University of Maryland, College Park	University House	USM	Gold	14,025	\$7,200,000.00	2012	https://www.facilities.umd.edu/documents/LEED_Gold.pdf
Completed	University of Maryland, College Park	Chincoteague Hall Renovation	USM	Gold	22,648	\$8,012,360.00	2012	http://www.umdrightnow.umd.edu/news/umds- chincoteague-hall-renovation-project-wins-gold-leed- certification
Completed	University of Maryland, College Park	Oakland Hall (Residence)	USM	Gold	231,704	\$81,000,000.00	2011	http://www.sustainability.umd.edu/content/campus/green_ buildings.php#Oakland
Completed	University of Maryland, College Park	Fraternity/ Sorority Renovations Ph. 8	USM	Silver	20,645	\$10,607,487.00	2010	http://greek.umd.edu/2013/08/08/sorority-houses-achieve- leed-silver-rating/
Completed	Maryland National Guard Facility, Salisbury MD	Salisbury Readiness Center	DGS for MDNG	Silver certified 2013	38,055	\$13,400,000.00	7/26/12	Construct a 20,826 GSF addition and renovate the existing 17,229 GSF Westminster Readiness center to support the newly acquired Combat military Police Company.
Completed	South Mountain Welcome Center	Maryland Department of Transportation	State Highway Administration	Silver certified	20,240 total sf in 4 buildings	\$21,000,000.00	2010	The South Mountain rest areas are used by nearly 1.5 million travelers annually. The new Welcome Centers are each approximately 3,940 square feet and the new restrooms are 6,180 square feet. The new buildings will reduce energy consumption and lower operating costs with the use of lower energy use lighting, sensors to monitor water usage and an onsite wastewater treatment plant.
Construction	University of Maryland, College Park	Pocomoke Building Renovation	USM	Silver (est)	27,000	\$9,000,000.00	2013	The Pocomoke Building Renovation involves demolition of existing spaces on all three floors. The historic building will undergo a complete replacement of HVAC and electrical systems.





	STATE BUILDING PROJECTS DEVELOPED INDEPENDENT OF THE HIGH PERFORMANCE BUILDING ACT											
STATUS	Facility Location	PROJECT NAME	DEVELOPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS				
Construction	University of Maryland, College Park	Prince Frederick Hall (Residence)	USM	Silver (est)	154,085	\$71,691,000.00	2014	http://www.resnet.umd.edu/princefrederick/				
Construction (42% complete)	LaPlata Readiness Center	Maryland National Guard	DGS for MDNG	Designed to LEED Silver standard - not certified	28,630	\$9,910,916.00	7/1/2015	Construct a new readiness center in La Plata. The proposed readiness center will house the 253rd Engineer Company that was transferred to the La Plata Readiness Center as part of the national "Grow the Army Initiative."				
Construction	University of Maryland College Park	Building and Landscape Service Building	USM	Silver (est) & Two Green Globes (est)	12,774	\$5,763,940.00	2014	The intention of the proposed office building is to consolidate units within Building Landscape Services and provide a new building to replace current facilities to be demolished during the East Campus development. The building will be located on the site of the current BLS building #50.				
Construction (41% complete)	Dundalk Readiness Center	Maryland National Guard	DGS for MDNG	Designed to LEED Silver standard - not certified	65,930	\$15,430,903.00	5/15/2015	Additions and renovations to the existing Dundalk Armory				
Construction (89% complete)	Westminster Readiness Center	Maryland National Guard	DGS for MDNG	Designed to LEED Silver standard - not certified	33,249	\$8,138,183.00	2/21/2015	Additions and renovations to the existing Westminster Armory				
Completed	Maryland House	MDOT	MDOT- public Private Partnership	Silver (expected upon completion of certification process in the 1st quarter of 2015)	42,000	\$30,000,000.00	01/16/14	The new travel plaza will be LEED Silver certified and includes "green" features such as high albedo material covers 80 percent of the building roof area to minimize heat island effect, natural light and high efficiency interior lighting, building systems and envelope design for a building energy performance that is 26% more efficient than the baseline case, and a 40% reduction in water usage in the building is accomplished through low-flow fixtures.				
Completed	Chesapeake House	MDOT	MDOT- public Private Partnership	Silver (expected upon completion of certification process in the 1st quarter of 2015)	30,000	\$26,000,000.00	08/05/14	The new travel plaza will be LEED Silver certified and includes "green" features such as high albedo material covers 100 percent of the building roof area to minimize heat island effect, natural light and high efficiency interior lighting, building systems and envelope design for a building energy performance that is 26% more efficient than the baseline case, and a 35% reduction in water usage in the building is accomplished through low-flow fixtures.				
Completed	Salisbury University	Choptank Hall Renovation	USM	Silver	48,118	\$7,500,000.00	2013	http://www.salisbury.edu/fpcp/housing/overview.html				
Completed	Salisbury University	Chester Hall Renovation	USM	Silver	48,118	\$7,500,000.00	2013	http://www.salisbury.edu/fpcp/housing/overview.html				
Development	Towson University	Newell/ Richmond Halls Renovation	USM	Silver(est)	90,000	\$29,000,000.00	unknown	http://www.towson.edu/housing/prospective/halls/ richmond.asp				





	STATE BUILDING PROJECTS DEVELOPED INDEPENDENT OF THE HIGH PERFORMANCE BUILDING ACT											
STATUS	FACILITY LOCATION	PROJECT NAME	DEVELOPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS				
Development	University of Maryland, Baltimore County	Patapsco Hall Renovation & Addition	USM	Gold (est)	53,500	\$15,500,000.00	unknown	http://www.umbc.edu/reslife/news/pat_addition.html				
Planning	University of Maryland Eastern Shore	Nuttle Residence Hall Renovation	USM	Silver (min)	TBD	\$10,800,000.00	2018	http://www.salisbury.edu/fpcp/housing/overview.html				
Construction	University of Maryland College Park	Edward St. John Learning and Teaching Center	USM	Silver (min)	180,744	\$112,030,000.00	2016	https://www.facilities.umd.edu/ESJ-LTC/default.aspx				
Design	Salisbury University	East Campus Athletic Stadium	USM	Silver (est)	30,931	\$19,000,000.00	2016					
Design	University of Maryland College Park	Bioengineering Building	USM	Silver (min)	184,715	\$168,924,500.00	2017	Construction of a new Bioengineering Building to house the Robert E. Fischell Department of Bioengineering and the Robert E. Fischell Institute for Biomedical Devices.				
Design	University of Maryland Shady Grove	Parking Garage II	USM	Green Garage @ Certification by the Green Parking Council (est)	202,280	\$18,200,000.00	2016	This project was the first to be registered with the Green Parking Council under their new Green Garage Certification program.				
Construction	Salisbury University	Academic Commons	USM	Gold (est)	221,037	\$111,308,000.00	2016	New Academic commons and Library Facility on the site of Carruthers Hall http://www.salisbury.edu/newsevents/ fullstoryview.asp?ID=5337				
Planning	University of Maryland College Park	Dorchester Hall Renovation	USM	Silver (min)	TBD	\$10,000,000.00	2016					
Planning	University of Maryland College Park	Central Maryland Research and Education	USM	Silver (min)	TBD	\$24,190,000.00	TBD					
Planning	University of Maryland College Park	South Campus Dining Hall	USM	Silver (min)	138,970	\$60,900,000.00	2018					
Design	University of Maryland College Park	Computer Science Building	USM	Silver (min)	200,000	\$138,000,000.00	2018	This project will house the Department of Computer Science and the University of Maryland Institute for Advanced Computer Studies. Project will support the growth of the department teaching and research programs, facilitate the integration of modern teaching and research activities, improve the ability of students and faculty to collaborate, and promote collaboration with industrial and community partners.				
Planning	of Maryland College Park University of Maryland College Park University of Maryland	Maryland Research and Education South Campus Dining Hall Computer Science	USM	Silver (min)	138,970	\$60,900,000.00	2018	and the University of Maryland Computer Studies. Project will department teaching and ress integration of modern teaching improve the ability of student and promote collaboration wi				





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