



Maryland Green Building Council

Annual Report

2017



Presented to
Governor Larry Hogan
and the Maryland General Assembly
November 1, 2017



ON THE COVER:

Salisbury University Guerrieri Academic Commons

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November 1, 2017

The Honorable Larry Hogan
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:

The Maryland Green Building Council is pleased to submit to its annual report for 2017.

This has been a year of great results for the Council. The Council accomplished one of its primary tasks, which was to update the state's High Performance Green Building Program in conjunction with the industry's transition to LEED v4.

The Council also reviewed the Green Building Initiative's Green Globes green building rating system (Green Globes), which is a nationally recognized numeric sustainable development rating system. The Council voted unanimously to recommend the Green Globes as an equivalent third compliance path for new solely state-funded capital projects, partially state funded community college buildings and public schools.

During 2017, Governor Hogan appointed three new members from the private sector. As a result, the Council is now fully energized to continue its efforts with participation from both new and existing members. At this time, I would like to also recognize all the Council members who have moved on from the Council, for their hard work and dedication.

In the year ahead, the Council will continue to work on its primary tasks and explore and recommend ways to promote greater levels of sustainable design, construction and operations for the state's buildings.

In the coming year, the Council will be making recommendations on sustainable and efficient operations of the existing state buildings and explore opportunities to influence the current lease structure for greener and healthier buildings for the state's occupants.

I am grateful and honored to serve the government and the citizens of Maryland.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read 'Fulya Kocak'.

Fulya Kocak, LEED Fellow
Chair, Maryland Green Building Council



Reginald V. Truitt Laboratory, University of Maryland Center for Environmental Sciences, Solomons, Maryland



Bowie State University, Center for Natural Sciences, Mathematics and Nursing, Bowie, Maryland - Dynamic Glass

TABLE OF CONTENTS

MARYLAND GREEN BUILDING COUNCIL MEMBERSHIP.....	2
INTRODUCTION.....	4
I. COUNCIL ACTIVITIES.....	6
II. LEGISLATIVE REPORT: Maryland General Assembly 2017 Session.....	8
III. STATE HIGH PERFORMANCE GREEN BUILDING PROGRAM UPDATE.....	9
IV. MARYLAND PUBLIC SCHOOLS GREEN SCHOOLS REPORT.....	21



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INTRODUCTION

The 2017 Annual Report of the Maryland Green Building Council (the Council) is written to comply with 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 the 2017 activities of the Council for 2017 and updates on buildings and building projects complying with the High Performance Buildings Act as well as other High Performance Buildings in state service.

This year the Council's appointed membership underwent major changes as three new members were appointed to fill the positions of members whose terms had expired. The Council would like to thank Nakita Reed, Lisa Ferretto and Christine Varney for their hard work and dedicated efforts on behalf of fulfilling the Council's mission and wishes them well in their future endeavors. Governor Hogan appointed the following three new members:

- Michael Li – Michael is a Senior Policy Advisor for the Office of Energy Efficiency and Renewable Energy of the U.S. Department of Energy in Washington D.C.
- Ryan Schwabenbauer – Ryan is the sustainability director for St. John Properties, a regional commercial real estate management firm with over 40 LEED certified properties.
- Stuart Kaplow – Stuart is an attorney and Principal of the real estate boutique, Stuart D. Kaplow P.A. specializing in real estate and environmental law.

In addition to the changes in the ranks of the appointed Council members, several new state agency designee members were appointed this year. Christopher Russell replaced Samuel Bierne as the designee for the Maryland Energy Administration and the Department of Natural Resources filled its vacant position on the Council with designee Donald VanHassent.

In spite of all of the changes in 2017, a busy schedule of meetings rounded out the Council's calendar for the year as the Council worked on several projects. These projects included an update of the High Performance Green Building Program (HPGBP) to better accommodate LEED v4, now the official version of LEED, and a study of the Green Globes green building rating system.



Anne Arundel Hall, St. Mary's College of Maryland, St. Mary's City, Maryland



I. COUNCIL ACTIVITIES

The Council held two meetings in 2016 after the release of the Annual Report and seven meetings to date in 2017. The Council's public meetings are typically held on the fourth Wednesday of each month, however, meetings were not held in March and July of 2017. The highlights of these meetings are described below. More detail is available in recent meeting summaries which can be found on the Department of General Services calendar or in archived summaries which are available upon request from the Council.

The October 2016 meeting of the Council was focused on the release of LEED v4. Chair Fulya Kocak, author of a study guide for LEED v4, provided a detailed presentation to the Council on the changes the new version brings to LEED. The Council also assigned individuals to study the effects of LEED v4 on the Council's mandatory credits as outlined in its High Performance Green Building Program (HPGBP).

The December 2016 meeting was a working meeting continuing on the work started in October.

In January 2017, work continued on the study of the effects of LEED v4 on the HPGBP as well as whether LEED Silver will still be achievable under LEED v4. It was agreed that Silver certification will be more challenging to attain. However, since few, if any projects have been registered under LEED v4, members agreed it was best to wait for feedback from these actual projects to make any recommendations for changes.

The February meeting concluded the work on the HPGBP related to LEED v4 by voting to enact modest changes developed over the course of the past several meetings. There was also a discussion of residential energy efficiency brought to the Council by MEA as well as a preliminary discussion of the Green Globes (GG) green building rating system.

The April meeting was largely focused on a presentation of the Green Globes rating system by its parent organization, the Green Building Initiative (GBI). The Council continued discussion after the GBI representatives departed.

The May meeting continued discussion of the Green Globes rating system. Much of the discussion focused on anecdotal experiences with GG by Council members.

In June, the Council reviewed LEED prerequisites and levels of performance required by the HPGBP to compare to Green Globes to verify/assure the relative equivalency of the two systems. From this, a draft of the HPGBP would be prepared for review and comment by members for a vote at the next meeting.

The month of July was taken off by the Council.

The August meeting started with the introduction of three new members to the Council, Michael Li, Ryan Schwabenbauer and Stuart Kaplow. While all three members were appointed by Governor Hogan two weeks prior to the meeting they had all been provided with the draft of the HPGBP Green Globes version. All agreed that they could participate in a vote on accepting Green Globes as an alternate path of compliance for state green building requirements. The vote was held and the Council unanimously recommended that the Green Globes program be recommended for approval by the Secretaries of the Department of Budget and Management and the Department of General Services.



The September meeting included a review for all Council members of the statutes which govern the Council's activities, and preliminary discussions on opportunities to increase efficiency in existing state buildings and leasing operations.



Baltimore Youth Detention Center, Baltimore , Maryland



II. LEGISLATIVE REPORT: **Maryland General Assembly 2017 Session**

The Maryland Green Building 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 well-researched information and advice on green building issues to those who are responsible for enacting laws and regulations in this area.

For the 2017 legislative session of the Maryland General Assembly there were no major legislative proposals directly related to state owned green buildings. However, there were a number of environment and building related bills the Council watched with interest but did not take a position on. Follows is a list of those bills along with their final status:

House Bill 144 – Approved by the Governor, Chapter 108 – Exemption for Historic Structures

Senate Bill 183 / House Bill 115 – Approved by the Governor, Chapters 56 & 100 – Mold Remediation Services Providers - Licensure and Evaluation

Senate Bill 1158 – Approved by the Governor, Chapter 372 – Solar Generation Facilities – Pollinator-Friendly Designation

House Bill 863 – Unfavorable, Withdrawn – State Agricultural and Conservation Property Interests – Solar Facilities

House Bill 354 / Senate Bill 624 – Unfavorable, Withdrawn - Clean Indoor Air Act – Use of Electronic Cigarette Devices - Prohibition

Senate Bill 538 – Unfavorable, Withdrawn – Public School Construction - Equitable Distribution of Projects and Improvements

House Bill 1290 – Unfavorable, Withdrawn – Management of Public Buildings - Indoor Air Quality

Senate Bill 168 / House Bill 674 – Unfavorable, Withdrawn – Maryland Paint Stewardship Program

House Bill 845 – Unfavorable – Public School Indoor Air Quality



III. STATE HIGH PERFORMANCE GREEN BUILDING PROGRAM UPDATE

The number of certified state owned High Performance Green Buildings continues to grow as more projects are completed. The High Performance Green Building spreadsheets have been updated as much as the available information allows. Of the 49 projects required to comply with the High Performance Building Act as fully state funded buildings, 26 have been completed while 8 are currently under construction and 15 are in various stages of planning and design. The 26 completed buildings have achieved or are anticipated to achieve 10 Silver ratings, 15 Gold ratings and 1 Platinum rating.

Of the 59 projects which are exempt but have been developed as high performance buildings, 49 are complete, 6 are under construction and 4 are in the planning and design phase. The completed buildings represent 1 LEED Certified, 29 which were designed to or achieved LEED Silver and 18 LEED Gold ratings. The University of Maryland's Shady Side Garage building achieved the Bronze Certification from Parksmart (formerly the Green Parking Council). Most of these projects are exempt only because they receive additional funding from sources outside of the state's capital budget.

For Fiscal Year 2018, the capital budget includes only one new project qualified to be designed under the High Performance Green Building Program.

- Maryland Public Television has been funded for the design of a new Studio A renovation and expansion. The 16,225 square foot renovated and expanded Studio A will upgrade broadcasting and building systems. The current building has not been substantially worked on since the 1960's and maintains technology from that time period. Renovation and expansion will make the mechanical, electrical, and plumbing systems more efficient and allow MPT to broadcast live performances. The \$8,625,000 renovation is expected to be completed in August of 2020.



STATE PROJECTS DEVELOPED IN COMPLIANCE WITH THE HIGH PERFORMANCE BUILDING ACT

STATUS	FACILITY LOCATION	PROJECT NAME	DEVEL OPER	LEED RATING/ IgCC	TOTAL GSF	CONST 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	University of Maryland, Baltimore	Pharmacy Hall Addition	USM	Gold	128,591	\$81,000,000	2010	http://phaddition.blogspot.com/
Completed	Salisbury University	Perdue School of Business	USM	Gold	113,000	\$44,900,000	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/RB24A_-_Towson_Univ_New_College_of_Liberal_Arts_Complex.pdf "
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	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	Morgan State University	Center for the Built Environment and Infrastructure Studies	Morgan State University	Gold	131,314	\$69,593,300	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	University of Maryland, Baltimore County	Performing Arts and Humanities Building, Phase I	USM	Gold	91,100	\$84,200,000	2012	http://www.umbc.edu/pahb/
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 achieved LEED Platinum status with features such as revolutionary heating and cooling using an active slab system which keeps the structure temperature steady reducing the need for heating 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



STATE PROJECTS DEVELOPED IN COMPLIANCE WITH THE HIGH PERFORMANCE BUILDING ACT

STATUS	FACILITY LOCATION	PROJECT NAME	DEVEL OPER	LEED RATING/ IgCC	TOTAL GSF	CONST COST	OPENED	INFORMATION/REMARKS
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 "
Completed	Frostburg State University	Center for Communications and Information Technology	USM	Gold	127,000	\$55,315,000	2014	http://www.frostburg.edu/budget/budget-resources/capital-budget-projects/
Completed	Department of Health and Mental Hygiene	State Public Health Laboratory	MEDCO	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.
Completed	Cheltenham Youth Detention center Center	Cheltenham Youth Facility, Prince George's County	DGS for DJS	Silver (est)	99,000	\$51,309,000	7/28/2016	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.
Completed	University of Maryland Eastern Shore	Aviation and Engineering Sciences Bldg	USM	Gold	163,000	\$78,116,000	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.
Completed	University of Maryland Center for Environmental Science - Chesapeake Biological Laboratory	Truitt Lab Replacement	USM	Silver	20,764	\$19,920,636	2016	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.
Completed	Coppin State University	New Science and Technology Center	USM	Gold	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 "
Completed	Morgan State University	Business Management Complex at Northwood Shopping Center	MSU	Gold	138,000	\$79,663,000	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, energy and water conservation, operable windows, bike facilities, reserved parking for efficient vehicles."
Completed	Morgan State University	Martin D. Jenkins Hall, Behavioral and Social Sciences	MSU	Silver (est)	141,000	\$79,404,000	2017	Construct a new Behavioral and Social Sciences building at the Northwood Shopping Center adjacent to the Ear. G Graves School of Business and Management. The building will house Economics, History, Political Science, Psychology and Sociology, Museum Studies programs and features: day lighting, vacancy sensors, reserved parking for efficient vehicles, green cleaning, roof garden.



STATE PROJECTS DEVELOPED IN COMPLIANCE WITH THE HIGH PERFORMANCE BUILDING ACT								
STATUS	FACILITY LOCATION	PROJECT NAME	DEVEL OPER	LEED RATING/ IgCC	TOTAL GSF	CONST COST	OPENED	INFORMATION/REMARKS
Completed	Harriet Tubman Underground Railroad State-Park	Harriet Tubman Underground Railroad Interpretive Center	DGS for DNR	Silver	15,000	\$14,600,000 + (\$1.7M for exhibits)	3/1/2017	Exhibit space, orientation film theater, library, gift shop and multipurpose meeting space. Memorial garden, trails, picnic pavilion and information kiosk.
Completed	Bowie State University	Natural Sciences, Mathematics and Nursing Center	USM	Gold (est)	149,264	\$98,976,090	2017	This building replaces the Crawford Science Building and addresses numerous facility problems such as insufficient class laboratories and support space, lack of specialized class laboratories, insufficient 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.
Completed	Frostburg State University	Public Safety Facility	USM	Silver	10,745	\$5,320,162	2017	New 10,735 GSF facility to house FSU's Police Department which will include spaces for public operations such as communications, report writing, and holding cells. It also will include specialized storage for evidence, recovered property, weapons, sally port and records. Support spaces include network server, locker and shower rooms, fitness room, break room and kitchen.
Completed	Baltimore City Detention Center	Baltimore Youth Detention Center	DPSCS	Gold (est) Pre-liminary Design Review	60,342	\$37,383,000	Sep-17	Construct Youth Detention Center in Baltimore City Detention Center, to separate youth detainee completely from Adult population. The existing Baltimore Pre-Release Unit is demolished to construct a new facility in its place and a portion of the adjacent Occupational Skills Training Center is renovated for new Youth Detention Center. The upgraded and improved facility will include detainee housing, educational services, administration, program services (counseling, drug treatment, etc.), visitation, medical, recreation, and food services areas for 60 youth detainees.
Completed	St. Mary's College	Anne Arundel Hall	SMCM	Gold (certified)	39,119	\$36,396,000	Completion Aug 2016	LEED GOLD features include 20kv photovoltaic array, heating and AC via geothermal heatpumps, storm water recovery for toilets and irrigation, green roof (portion) incorporates bamboo flooring, sinker cypress and other green building products.
Construction (98% Complete)	University of Maryland, Baltimore	Health Sciences Facility III	USM	Gold (est)	435,000	\$305,000,000	10/1/2017	Construct a new research building for the Schools of Medicine, 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
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.
Bidding/Construction	Board of Public Works - Judiciary	Catonsville District Court	DGS	Silver	125,000	\$61,000,000	2018	The building will house eight new courtrooms in Catonsville, Baltimore County. This will be the State's first courthouse built under the high performance building act.
Construction (10% complete)	State Library Resource Center	Central Branch Enoch Pratt Free Library System	DGS for EPFLS	Silver (est)	290,000	\$85,570,000	05/ 2019	Alteration work to modernize building systems, accommodate new programs and improve accessibility; and renovation work to preserve historic architecture.
Construction	Morgan State University	Jenkins Behavioral Sciences Center	MSU	Gold (goal)	141,000	\$79,404,000	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.



STATE PROJECTS DEVELOPED IN COMPLIANCE WITH THE HIGH PERFORMANCE BUILDING ACT								
STATUS	FACILITY LOCATION	PROJECT NAME	DEVEL OPER	LEED RATING/ IgCC	TOTAL GSF	CONST COST	OPENED	INFORMATION/REMARKS
Construction	University of Maryland Shady Grove	Biomedical Education Facility	USM	Silver (est)	228,805	\$163,522,570	2019	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	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.
Design	Department of Juvenile Services	New Female Detention Center	DJS	Silver (est)	92,803	\$51,835,000	12/1/2020	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.
Design	St. Mary's College	New Academic Building and Auditorium	SMCM	TBD	52,289	\$64,186,000	7/15/2022	Construct a new 30,856 NASF/52,289 GSF academic building to provide space for the College's Music department, Educational Studies department, a learning commons study space, and a 700-seat auditorium.
Design	Towson University	New Science Facility	USM	Silver (min)	316,000	\$187,819,000	2020	Construct new science facility to align all of the departments and programs of the Fisher College of Science and Mathematics into two adjacent buildings.
Design	Southern Maryland	Southern Maryland Higher Education Center	SMHEC/USM	Silver (est)	TBD	\$81,711,000	2020	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.
Design	Board of Public Works	Rehabilitation of the Historic Annapolis Post Office	DGS	Silver	24,534	\$8.9 M (Estimated)	2019	This project will renovate the existing Annapolis Post Office Building to provide office space for State agencies currently leasing space.
Design-Pending	MD Department of Agriculture	Salisbury Animal Health Laboratory	DGS	Silver (min)	28,592	\$15,275,000	8/1/2018	The lab provides critical diagnostic and investigatory services that identify and contain various threats. This new laboratory will be constructed next to the current facility in Wicomico County on State-owned property, which will be demolished after the new lab is completed. It will meet modern biosafety and accreditation requirements for laboratories and will provide an efficient space for staff with the ability to accommodate growth.
Design-Pending	MD Correctional Institute - Hagerstown	Perimeter security Upgrades	DPSCS	Silver (min)	29,727	\$26,408,000	4/15/2020	Design and construct a new perimeter security system, new gatehouse with a central control center, four new guard towers, and a new rear sally port tower and renovate/expand the visitor's registration by 12,628 NSF/19,942 GSF for a new visiting center at the Maryland Correctional Institution-Hagerstown (MCI-H).
Design-Pending	Cumberland MD	New Barrack C and Garage	DGS	TBD	12,185	\$8,865,000	1/1/2019	Construct a barrack, garage, and radio tower to replace Barrack "C" in Cumberland. There are now 50 sworn and 15 civilian personnel assigned to the barrack.
Design-Pending	Frostburg State University	Education & Health Sciences Center	USM	Silver (est)	100,000	\$83,185,000	2021	Design and construct an Education & Health Sciences Center to house the College of Education, College of Liberal Arts and Science's Professional health programs, several pre-professional health programs, the Center for Rural Health and student health and wellness services.
Design-Pending	University of Maryland Eastern Shore	School of Pharmacy & Allied Health	USM	Silver (est)	120,000	\$86,185,000	2021	Construct a new building for the School of Pharmacy and Allied Health Professions. The building will house the School of Pharmacy's Doctor of Pharmacy and Doctor of Pharmaceutical Sciences program.



STATE PROJECTS DEVELOPED IN COMPLIANCE WITH THE HIGH PERFORMANCE BUILDING ACT

STATUS	FACILITY LOCATION	PROJECT NAME	DEVEL OPER	LEED RATING/ IgCC	TOTAL GSF	CONST COST	OPENED	INFORMATION/REMARKS
Design - Pending	Jefferson Patterson Park, St. Leonard MD	Jefferson Patterson Park and Museum	DGS	TBD	10,500	\$6,071,000	9/1/2020	Construct renovations to three historic buildings, totaling 10,416 NSF/11,554 GSF, at the Patterson Center at the Jefferson Patterson Park and Museum in Calvert County. Buildings to be renovated include the Main House, Pool House, and Garage. When renovations are complete, the Patterson Center will include a historic house museum, office space, and space for fundraising events and other public uses. These renovations will ensure continued access to the property while providing an opportunity for the site to become more self-sustaining.
Design-Pending	Maryland Public Television	Studio A Renovation and Expansion	DGS for MPT	Silver	16,225	\$8,625,000	8/1/2020	The renovated and expanded Studio A will upgrade broadcasting and building systems. The current building has not been substantially worked on since the 1960s and maintains technology from that time period. Renovation and expansion will make the mechanical, electrical, and plumbing systems more efficient and allow MPT to broadcast live performances with a live audience.
Planning	University of Maryland Center for Environmental Science - Chesapeake Biological Laboratory	Chesapeake Collaborative Building	USM	Silver (est)	12,600	\$14,200,000	2021	This 12,600 GSF building will provide library and computer services to the CBL faculty and graduate students and serve as an information resource and database of environmental issues for other local research institutions, museums, and the general community.
Planning	Morgan State University	New Student Services Support Building	MSU	Silver (min)	138,220	\$80,962,000	2020	Construct a new 138,220 GSF/ 71,595 NASF building to house the student support services functions of the University on the site of the old Soper Library. Functions include Admissions and Recruitment, Bursar, Career Development, Community Services, Enrollment Management Services, Financial Aid and Work Study, Records and Registration, Transfer Center, Comptroller, Human Resources, Campus Parking/Transportation and Bear Necessity Card.



University of Maryland, Shady Grove, Parking Structure, Rockville, Maryland



*Harriet Tubman Underground Railroad National Historical Park Visitors Center, Church Creek, Maryland
Robert Creamer Photography*



STATE BUILDING PROJECTS DEVELOPED INDEPENDENT OF THE HIGH PERFORMANCE BUILDING ACT

STATUS	FACILITY LOCATION	PROJECT NAME	DEVEL OPER	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 urinals and sensors and aerators on showers and faucets. 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	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	76,000	\$19,285,000	2011	http://www.frostburg.edu/budget/lane-center-renovation/
Completed	Salisbury University	Pocomoke Hall Renovation	USM	Gold	22,000	\$6,941,026	2010	http://www.salisbury.edu/fpcp/housing/overview.html
Completed	Salisbury University	Manokin Hall Renovation	USM	Gold	22,000	\$5,837,504	2010	http://www.salisbury.edu/fpcp/housing/overview.html
Completed	Salisbury University	Wicomico Hall Renovation	USM	Gold	22,000	\$6,878,205	2011	http://www.salisbury.edu/fpcp/housing/overview.html
Completed	Salisbury University	Nanticoke Hall Renovation	USM	Gold	36,000	\$11,094,364	2011	http://www.salisbury.edu/fpcp/housing/overview.html
Completed	Towson University	West Village Housing	USM	Silver	159,000	\$35,000,000	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	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	2007	http://www.shadygrove.umd.edu/about/campus-sustainability/sgii/green-features
Completed	University of Maryland Eastern Shore	Somerset Hall Renovation for School of Pharmacy	USM	Gold	22,000	\$6,800,000	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	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	2009	http://www.umuc.edu/visitors/news/pressreleases/news321.cfm
Completed	Bowie State University	Wiseman Student Center	USM	Gold	95,685	\$34,440,000	2013	http://www.bowiestate.edu/campus-life/wiseman-student-center/
Completed	Salisbury University	Teacher Education Technology Center	USM	Silver	165,000	\$62,100,000	2008	http://www.salisbury.edu/newsevents/fullstoryview.asp?id=3691
Completed	Salisbury University	Seagull Square Development	USM	Silver	285,000	\$40,862,109	2011	http://www.salisbury.edu/fpcp/sgs/factsheet.html
Completed	Towson University	Tiger Arena	USM	Silver	110,000	\$50,000,000	2012	http://www.tigerarena.com/TigerArena.dbml?DB_OEM_ID=21300



STATE BUILDING PROJECTS DEVELOPED INDEPENDENT OF THE HIGH PERFORMANCE BUILDING ACT

STATUS	FACILITY LOCATION	PROJECT NAME	DEVEL OPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS
Completed	University of Maryland, Baltimore County	Research Park Building	USM	Silver	110,400	\$25,000,000	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	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	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	\$24,800,000	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	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	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	\$7,303,332	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	2012	https://umdrightnow.umd.edu/news/university-house-achieves-leed-gold-certification
Completed	University of Maryland, College Park	Chincoteague Hall Renovation	USM	Gold	22,648	\$7,826,463	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	\$74,873,285	2011	http://reslife.umd.edu/halls/denton/oakland/
Completed	University of Maryland, College Park	Fraternity/Sorority Renovations Ph. 8	USM	Silver	20,645	\$10,607,487	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	2012	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	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.
Completed	University of Maryland College Park	Building and Landscape Service Building (Wye Oak)	USM	Silver & Three Green Globes	12,774	\$5,909,000	2014	This two story building houses units of the department of Building and Landscape Management Department. This building has achieved dual certification with LEED and Green Globes.
Completed	Westminster Readiness Center	Maryland National Guard	DGS for MDNG	Designed to LEED Silver standard - not certified	33,249	\$8,157,903	2015	Additions and renovations to the existing Westminster Armory



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
Completed	Maryland House	MDOT	MDOT-public Private Partnership	Silver	42,000	\$30,000,000	2014	The new travel plaza is 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	30,000	\$26,000,000	2014	The new travel plaza is 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	2013	http://www.salisbury.edu/fpcp/housing/overview.html
Completed	Salisbury University	Chester Hall Renovation	USM	Silver	48,118	\$7,500,000	2013	http://www.salisbury.edu/fpcp/housing/overview.html
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 Certified rating will be achieved on the Services Support Building and Silver on the 2 Housing Units. Construction submittal review is ongoing.
Completed	Jessup Community Correctional Facility	Dorsey Run Correctional Facility - Phase II	DPSCS	Silver (est) Design Final Review completed	82,000 Phase II	\$26,264,000 Phase II	10/2016 (est)	Similar to Phase I above - additional 560 bed facility including three buildings, Support Services and 2 Housing Units (#3 and #4).
Completed	University of Maryland, College Park	Pocomoke Building Renovation	USM	Gold	27,000	\$9,480,000	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.
Construction	University of Maryland, College Park	Prince Frederick Hall (Residence)	USM	Gold	154,085	\$70,291,000	2014	http://www.resnet.umd.edu/princefrederick/
Completed	LaPlata Readiness Center	Maryland National Guard	DGS for MDNG	Designed to LEED Silver standard - not certified	28,630	\$9,910,906	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."
Completed	Dundalk Readiness Center	Maryland National Guard	DGS for MDNG	Designed to LEED Silver standard - not certified	65,930	\$15,430,903	2015	Additions and renovations to the existing Dundalk Armory
Completed	Salisbury University	East Campus Athletic Stadium	USM	Silver (est)	30,931	\$19,100,000	2016	Construction of a new athletic stadium on the East Campus where the existing Sea Gull Stadium is located. Stadium will include locker rooms, concessions, retail area, box office, storage room, equipment and training room, restrooms, press box, Varsity Club, catering areas and a seating capacity of 3,000. Project also includes associated site improvements, exterior lighting, walkways, parking and service roads.



STATE BUILDING PROJECTS DEVELOPED INDEPENDENT OF THE HIGH PERFORMANCE BUILDING ACT

STATUS	FACILITY LOCATION	PROJECT NAME	DEVEL OPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS
Completed	University of Maryland Shady Grove	Parking Garage II	USM	Parksmart Bronze	202,280	\$20,200,000	2016	700-parking space facility with five levels. Sustainable features include use of recycled materials, electric charging stations, 36 bicycle spaces, PV rooftop solar, preferred parking for low emitting vehicles. Project diverted 99% of construction waste from landfill, sourced 95% of materials regionally, minimized lighting power density to 0.97 w/sf. Generates 3% of energy on-site.
Completed	University of Maryland College Park	Edward St. John Learning and Teaching Center	USM	Silver (min)	187,444	\$118,966,327	2017	https://www.facilities.umd.edu/ESJ-LTC/default.aspx
Completed	Salisbury University	Academic Commons	USM	Gold	221,037	\$112,738,059	2016	New Academic commons and Library Facility on the site of Carruthers Hall http://www.salisbury.edu/newsevents/fullstoryview.asp?ID=5337
Completed	University of Maryland College Park	H.J. Patterson Wing 1 Renovation	USM	"LEED CI Silver (est) "	42,200	\$17,487,822	2017	Renovate first, second, third, and fourth floors of Wing 1. Work includes gutting of floors, new AHUs, fire protection system including sprinklers, replacement of windows and addition of an elevator.
Completed	Towson University	Newell/Richmond Halls Renovation	USM	Silver	90,000	\$29,000,000	2013	http://www.towson.edu/housing/prospective/halls/richmond.asp
Completed	University of Maryland, Baltimore County	Patapsco Hall Renovation & Addition	USM	Gold	53,500	\$15,500,000	2012	http://www.umbc.edu/reslife/news/pat_addition.html
Construction	University of Maryland College Park	A. James Clark Bioengineering Building	USM	Silver (min)	184,715	\$155,430,150	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.
Construction	University of Maryland College Park	New Cole Fieldhouse	USM	Silver (est)	281,400	\$189,596,000	2019	This project will convert and expand Cole Field House to create a Human Performance and Academic Research Facility which will contain an indoor practice facility, a football training complex, and a Center for Sports Medicine, Health and Human Performance.
Construction	University of Maryland College Park	Brendan Iribe Center	USM	2012 IgCC	210,730	\$152,250,000	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.
Construction	Havre de Grace Readiness Center	Maryland National Guard	DGS for MDNG	Silver (min)	59,800	\$16,000,000	2017	Construct a new Maryland Army National Guard Readiness Center in Havre de Grace. The new Havre de Grace Readiness Center will contain unit administrative offices, equipment storage areas, locker rooms, toilet/shower facilities, classrooms, soldier training areas, an assembly hall, and other support spaces constructed to the current, modern Readiness Center standards.
Construction	Easton Readiness Center	Maryland National Guard	DGS for MDNG	Silver (min)	42,779	\$15,978,000	2018	Construct a new Army National Guard Readiness Center in Easton to replace insufficient and functionally inadequate space in the current facility. The current facility was built in 1976 for an all-male, small National Guard Company. The facility now houses two units, both units contain a significant number of positions open to females.
Construction	University of Maryland, Baltimore County	Event Center	USM	Silver (est)	172,000	\$85,000,000	2017	New construction of a multi-purpose facility to host a variety of revenue and non-revenue producing events included commencement, concerts, speakers, etc. along with NCAA athletic games and practices for Men's and Women's Basketball and Women's Volleyball.
Design	Freedom Readiness Center	Maryland National Guard	DGS for MDNG	Silver (min)	67,098	\$25,784,000	2020	Design and construct a new Army National Guard Readiness Center in Sykesville, Maryland. The prospective facility will contain functional spaces to meet all requirements for two National Guard units, including administrative offices, equipment storage areas, locker rooms, toilet/shower facilities, classrooms, soldier training areas, an assembly hall, and other support spaces.



STATE BUILDING PROJECTS DEVELOPED INDEPENDENT OF THE HIGH PERFORMANCE BUILDING ACT

STATUS	FACILITY LOCATION	PROJECT NAME	DEVEL OPER	LEED RATING	TOTAL GSF	PROJECT COST	OPENED	INFORMATION/REMARKS
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 project will include green enhancements such as geothermal HVAC and green roof.
Design	University of Maryland College Park	School of Public Policy	USM	Silver (est)	69,700	\$45,000,000	2020	This project is for the construction of an office/classroom building which will provide the space required for the School of Public Policy to meet its Strategic Plan goals for growth and become one of the top ten public policy programs in the nation.
Design	Towson University	University Union Addition & Renovation	USM	Silver (min)	80,000/168,203	\$103,770,000	2020	This project, as proposed, is for an addition (80,000 GSF/45,000 NASF) and complete renovation of the existing building (168,203GSF/109,044NASF).
Design	Frostburg State University	New Residence Hall	USM	Silver (est)	126,959	\$36,580,000	2020	New residence hall facility with 425 beds, student lounge and study spaces, vending, and laundry facilities. Project includes demolition of Sand Spring and Veteran's Center. New parking, outdoor community space, and bike racks will be provided.
Design-Pending	University of Maryland College Park	Replacement Dining Hall-North	USM	Silver (est)	57,750	\$36,750,000		New dining hall will provide students with a state-of-the-art facility and will feature improved throughput, better space design, and more menu variety.
Design-Pending	University of Maryland College Park	New Residence Hall	USM	Silver (est)	303,500	\$97,000,000		The On-campus Undergraduate Housing Strategic Plan includes the construction of modern student housing. The new dormitory or dormitories will contribute to a more balanced mix of student accommodations that aligns with student market demand.
Design-Pending	University of Maryland College Park	Chemistry Building Wing 1 Replacement - Phase 2	USM	Silver (est)	27,000	\$9,000,000	2019	The project will include renovations to wings 2, 4, and 5 in the Chemistry Building, an addition to the Nuclear Magnetic Resonance Facility, and renovations to the Toll building and the IPST building.
Design-Pending	Salisbury University	3D Arts Building Renovation	USM	Silver (est)	14,700	\$4,400,000	2019	Renovate two existing industrial buildings to create a 3D Arts Center. The larger building shall be equipped for artistic work with a broad range of mediums including wood, glass, ceramics, metals, plaster, etc. The smaller building will be renovated for office functions.
Planning	Salisbury University	Guerrieri Center Renovation	USM	Silver (est)		\$39,500,000		
Planning	St. Mary's College of MD	Jamie L Roberts Stadium and Athletic Fields	SMCM	Silver (min)	7,450	\$8,500,000	2019	Field House with locker rooms, spectator stands and accommodations, grass field (soccer), turf field (field hockey and lacrosse), and running track.



IV. MARYLAND PUBLIC SCHOOLS GREEN SCHOOLS REPORT- 2017

The Maryland Green Building Council is pleased to report on the progress made in 2016-2017 by the state's Local Education Agency (LEA) public school construction programs to construct High Performance Green Schools. The Interagency Committee on School Construction (IAC) reports that in the 19 of 25 districts (24 LEAs plus Maryland School for the Blind) reporting, as of September 2017, a total of at least 67 K-12 high performance schools were in various phases of planning or design, construction, or occupancy. When the State High Performance Green Building Act was enacted in 2007, LEAs were able to take advantage of the notoriety of high performance facilities. However, due to declines in relative funding availability, some LEAs have questioned the actual return on investment and specifically the rising cost of achieving LEED certification which overtaxes their already limited resources.

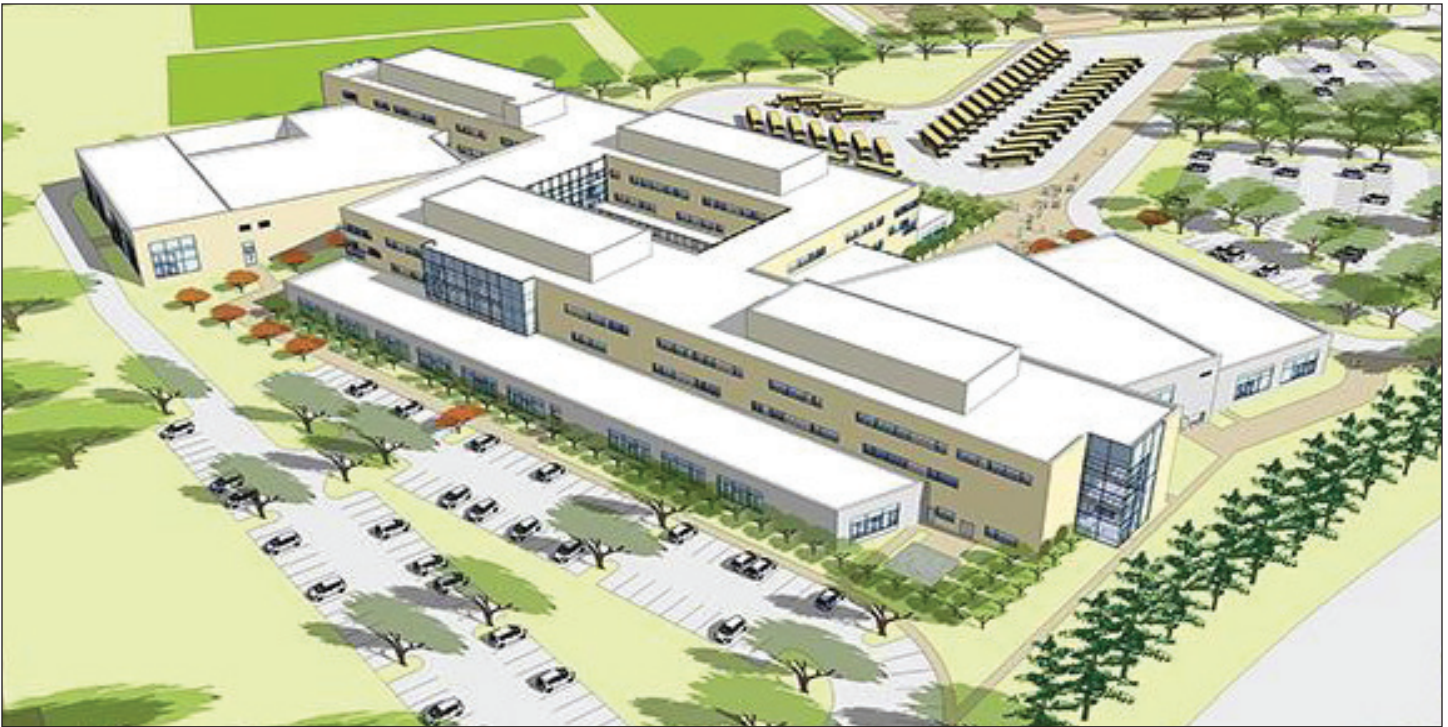
Fifteen (15) schools have been completed and are occupied, 26 are under construction, and 26 schools are in the planning or design phase. Six (6) of the 15 completed schools are believed to have received their final LEED Silver certification, one (1) achieved "Certified" status while one (1) achieved LEED Gold certification.

Fourteen (14) projects that are exempt from the high performance requirement because they are not new construction but renovation/addition projects have been developed as high performance buildings: six (6) are complete, eight (8) are under construction and none are in the planning and design phase. The six (6) completed buildings represent two (2) that are LEED Certified, two (2) which were designed to or achieved LEED Silver ratings, and two (2) that have a LEED Gold rating.

This summary is limited to information provided to the IAC by the reporting districts and to certain assumptions made. Therefore, it is likely that more schools have been completed, occupied and have received their LEED certification as of this writing.

Progress can also be reported on the planning and construction of the state's first two NetZero schools. The two major school replacement projects are made possible through grants from the Maryland Energy Administration (MEA) for schools to be constructed within the Baltimore Gas and Electric Company (BGE) service area. Wilde Lake Middle School in Howard County is completed and occupied and was designed to be LEED Gold - performance results are unknown. Graceland Park/O'Donnell Heights Elementary/Middle School, part of the Baltimore City Public School System, is currently in design to achieve LEED Silver.

The following spread sheet itemizes these Maryland High Performance Schools by location, phase, certification and high performance features.



Severna Park High School Renderings

2017 MARYLAND PUBLIC SCHOOLS - GREEN SCHOOLS REPORT (9/27/17)							
LOCAL EDUCATION AGENCY	NAME OF SCHOOL (PROJECT TYPE)	STATUS	LEED RATING	OCCUPANCY DATE	GREEN ROOF (Y/N)	ROOF SOLAR PANELS (Y/N)	INFORMATION / REMARKS
Allegany County	Allegany HS (Replacement)	Construction	Silver (est)	8/1/2018 (est)			The roof system has been engineered for and all conduits will be installed to the roof for future solar panel installation.
Anne Arundel County	Lothian ES (Repl)	Completed	Silver (achieved)	8/10/2015			Geothermal System; LEED Silver Cert received 2017.
	Severna Park HS (Repl)	Completed	Silver (est)	1/4/2017			
	Rolling Knolls ES (Repl)	Completed	Silver	3/29/2016			Geothermal System
	Arnold ES (Repl)	Construction	Silver (est)	8/1/2019			
	Jessup ES (Repl)	Construction	Silver (est)	8/1/2019			
	Crofton Area HS (Repl)	Planning/ Design	Silver (est)	7/1/2020			
Baltimore City	Holabird PK-8 (Replacement)	Planning/ Design	Silver (est)				
	Graceland Park O'Donnell Heights PK-8 (Replacement)	Planning/ Design	Silver (est)				\$2.7 M grant through Maryland Energy Administration to achieve Net Zero Building. Maryland's 2nd NZB school facility.
	Fort Worthington PK-8 (Replacement)	Completed	Silver (achieved)	8/1/2017			
	Arundel PK-5 (Replacement)	Construction	Silver (est)				
	Patterson HS (Replacement)	Planning/ Design	Silver (est)				
	Cherry Hill Gr. 3-8 (Renovation / Addition)	Construction	Silver (est)				
	Frederick ES (Renovation / Addition)	Completed	Silver (est)				
	John Eager Howard PK-5 (Renovation / Addition)	Construction	Silver (est)				
	Lyndhurst PK-8 (Renovation / Addition)	Construction	Silver (est)				
Baltimore County	Berkshire ES (Repl)	Planning/ Design	Silver (est)	8/1/2020			
	Chadwick ES (Repl)	Planning/ Design	Silver (est)	8/1/2022			
	Colgate ES (Repl)	Planning/ Design	Silver (est)	8/1/2021			
	Dundalk ES (Repl)	Planning/ Design	Silver (est)	8/1/2020	Y		Green roof (alternate), geothermal system
Calvert County	Northern HS (Replacement)	Construction	Silver (est)	10/1/20 (est)			
	Beach ES (Replacement)	Planning/ Design	Silver (est)				
Carroll County	Career and Technology Center (Repl)	Planning/ Design	Silver (est)				



2017 MARYLAND PUBLIC SCHOOLS - GREEN SCHOOLS REPORT (9/27/17)

LOCAL EDUCATION AGENCY	NAME OF SCHOOL (PROJECT TYPE)	STATUS	LEED RATING	OCCUPANCY DATE	GREEN ROOF (Y/N)	ROOF SOLAR PANELS (Y/N)	INFORMATION / REMARKS
Cecil County	Gilpin Manor (Replacement)	Construction	Silver (est)				Proposed Occ. 8/1/2018
	Chesapeake City (Repl)	Planning/ Design	Silver (est)				
Charles County	Billingsley ES (New)	Construction	Silver (est)				
	Dr. Samuel Mudd ES (Renovation/ addition)	Construction	Silver (est)				
	Benjamin Stoddert MS (Renovation/addition)	Planning/ Design	Silver (est)				
	Eva Turner ES (Renovation/addition)	Planning/ Design	Silver (est)				
Dorchester County	North Dorchester HS (Replacement)	Construction	Silver (est)	8/1/2019			Geothermal system.
Frederick County	North Frederick ES (Replacement)	Completed	Silver (achieved)	8/15/2014			
	Frederick HS (Replacement)	Construction	Silver (est)				
	Rock Creek SE (Repl)	Planning/ Design	Silver (est)				
	Urbana ES (Repl)	Planning/ Design	Silver (est)				
Harford County	Youth Benefit ES (Replacement)	Construction	Silver (est)	11/2/2017			
	Havre de Grace MS/HS (Repl)	Planning/ Design	Silver (est)	8/1/2019			Provide alternative transportation access, use water efficient landscaping, optimize energy performance of building, green cleaning housekeeping plan, provide good acoustics, monitor outdoor air delivery.
Howard County	Patuxent Valley MS (Renovation / Addition)	Completed	Certified (est)	8/1/2017	N	N	
	Wilde Lake MS (Replacement)	Completed	Gold (est)	8/1/2017	N	Y	"Geothermal System, Maryland's 1st New Zero Building school facility, 625 KW PV system with 425 KW on roof and 200 KW on ground."
	Swansfield ES (Renovation/ Addition)	Construction	Certified (est)	8/1/2018	N	N	
	Waverly ES (Renovation/Addition)	Construction	Certified (est)	8/1/2018	N	N	
	Elementary School #42 (New)	Construction	Silver (est)	8/1/2018	N	N	
	Deep Run ES (Renovation/ Addition)	Completed	"Silver (achieved)"	8/2016	N	N	
	New High School #13	Planning/ Design	Silver (est)	8/14/2022	N	N	
Montgomery County	Wayside ES (Replacement)	Construction	Silver (est)	12/1/2017			Green roof, geothermal system, design school as a teaching tool
	Wheaton Woods ES (Replacement)	Construction	Silver (est)	12/1/2017	Y		Green roof, highly reflective roof surfaces, geothermal system, design school as a teaching tool.



2017 MARYLAND PUBLIC SCHOOLS - GREEN SCHOOLS REPORT (9/27/17)

LOCAL EDUCATION AGENCY	NAME OF SCHOOL (PROJECT TYPE)	STATUS	LEED RATING	OCCUPANCY DATE	GREEN ROOF (Y/N)	ROOF SOLAR PANELS (Y/N)	INFORMATION / REMARKS
	Seneca Valley HS (Replacement)	Construction	Silver (est)	9/1/2020 (est)	Y		Green roof, highly reflective roof surfaces, green housekeeping plan, design school as a teaching tool.
	Brown Station ES (Replacement)	Completed	Silver (est)	12/1/2017			Provide highly reflective roof surfaces, design school as a teaching tool.
	Bethesda-Chevy Chase MS (New)	Construction	Silver (est)	9/1/2018 (est)	Y		Green roof, highly reflective roof surfaces, green housekeeping plan
	Thomas Edison HS (replacement)	Construction	Silver (est)	9/1/2018 (est)	Y		Green roof, optimize energy performance of building, encouraging alternative transportation, effective stormwater management.
	Richard Montgomery #5 ES (new)	Construction	Silver (est)	9/1/2018 (est)	Y		Green roof, geothermal system, green housekeeping plan, design school as a teaching tool.
	Clarksburg Cluster Village Site #2	Planning/Design	Silver (est)	9/1/2019			Provide highly reflective roof surfaces, geothermal system, design school as a teaching tool.
	Maryvale/C. Sandberg ES/SE (Repl)	Planning/Design	Silver (est)	9/1/2020 (est)			
	Potomac ES (Modernization)	Planning/Design	Silver (est)	1/1/20 (est)			
	Thomas Wooten HS	Planning/Design	Silver (est)	9/1/2021 (est)			
	Tilden/Rock Terrace MS/SE (Repl)	Planning/Design	Silver (est)	6/1/2020 (est)			
	Luxmanor ES (Repl)	Planning/Design	Silver (est)	6/1/2020 (est)			
Prince George's County	Glenarden Woods ES (Renovation)	Completed	Gold (est)	9/1/2017			Geothermal wellfield; Bicycle storage and changing facilities; preferred parking for low emitting/fuel efficient vehicles; protection of habitat zones; maximize open space; stormwater quality control; reduction of heat island effect due to roof surfaces; light pollution reduction; joint use of facilities; water efficient landscaping; water use reduction; ground source heat pumps; enhanced building commissioning; recycled content building materials; regional building materials; construction indoor air quality management plan; low emitting materials; indoor chemical and pollutant source control; controlability of thermal and lighting systems; post-occupancy thermal comfort survey; daylighting of 90% of core learning spaces; school as a teaching tool.
	Tulip Grove ES (Renovation/Addition)	Construction	Gold (est)	8/1/2018	Y		Geothermal well field; green roof, micro-biore-tention areas, rain barrels, increased ventilation, efficient water fixtures, sustainable lighting features (controls, light pollution reduction, low mercury bulbs), enhanced commissioning, regional and recycled materials, and an interior living wall.
	Eugene Burroughs MS (Renovation) (aka Accokeek Academy)	Completed	Gold (est)	8/1/2016	Y		High-efficiency chilled beam system energized by geothermal wellfield; pervious pavement and shallow gravel wetlands; pervious concrete pavement is utilized in vehicular parking; vegetative roof on bus drop-off canopy; daylighting controls to maximize use of natural daylight. All facilities meet Environmental Site Design to the maximum extent.



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LOCAL EDUCATION AGENCY	NAME OF SCHOOL (PROJECT TYPE)	STATUS	LEED RATING	OCCUPANCY DATE	GREEN ROOF (Y/N)	ROOF SOLAR PANELS (Y/N)	INFORMATION / REMARKS
	Fairmont Heights HS (Replacement)	Completed	Gold (est)	9/6/2017	Y		Geothermal wellfield; vegetated roof; porous concrete, and micro-bioretenion. Building oriented to maximize daylight; Eco friendly and low VOC materials and paint and sealers used; waterless urinals, dual flush toilets and low flow faucets; white energy star roof; construction waste management (75%) diverted from landfill; recycled content of materials used 25%; FSC certified wood 90%; GREEN education initiative included with indoor and outdoor signage. Low mercury content in lamps, low energy elevator, green cleaning policy in the building, reduced noise levels throughout the building to enhance student concentration and teacher legibility.
St. Mary's County	Captain Walter Francis Duke ES (New)	Completed	Gold (achieved)	8/1/2015	YBck	Y	Green Roof with drought resistant plants that can absorb 3/4" of a 1" rainfall; two 15,000 gallon wooden cisterns collect rainwater from the roof and are utilized to flush all of the toilets in the building. In conjunction with low flow faucets, dual flush toilets and waterless urinals, water consumption is reduced by 50%; LED exterior lighting; there are 26 solar panel that provide 7kw or 1.5% of the school's power. Wind technology on the outdoor 2nd story environmental lab powers an outlet in the science lab.
Somerset County	J. M. Tawes Center (Replacement)	Construction	Silver (est)	10/1/2019			Design school as a teaching tool.
Talbot County	Easton ES (Moton/Dobson - Repl)	Planning/Design	Silver (est)	12/1/2021			Energy efficient systems, pollution reduction methods, high efficiency plumbing fixtures.
Washington County	Jonathan Hager ES (former West City ES (New))	Completed	Silver (achieved)	8/16/2016			Project is in final post occupancy completion mode (i.e. addressing punchlist items, etc.)
	Sharpsburg ES (Repl)	Planning/Design	Silver (est)	8/8/2020			
Wicomico County	Salisbury Elementary (Replacement)	Construction	Silver (est)	8/1/2018	N	N	Geothermal / variable refrigerant flow HVAC system.
	Beaver Run ES (Repl)	Planning/Design	Silver (est)				



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