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# Current Project Summary & Implementation Overview P2P Project Overviews

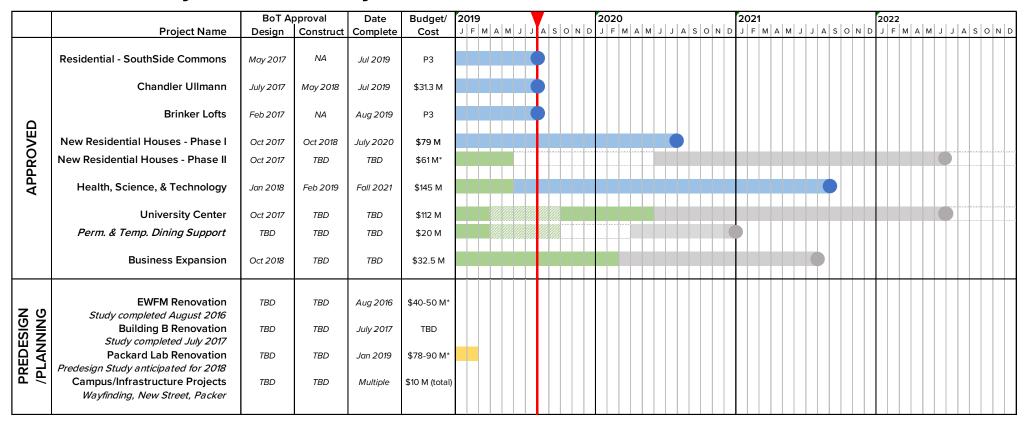
- Southside Commons Residence Hall
- Chandler-Ullmann Hall Renovation
- Brinker Lofts
- New Residential Houses Phase I
- Health, Science, & Technology Building
- University Center
- Business Expansion

## General Project Overviews

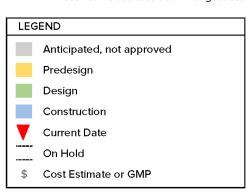
- Goodman Stadium Pressbox
- Center for Career and Professional Development
- Fairchild Martindale Café and Service Desk
- Electric Reliability and Resiliency Project
- On-Site and Off-Site Renewables



### **Current Project Summary**



<sup>\*</sup> Does not Include escalation. Budget assumes 2019 start, 5-8% escalation could be assumed for planning purposes until revised estimate is complete.



# Implementation Sequence Overview

<b>Approved</b> projects are critical to the Path to Prominence goals of University growth, facilities for the College of Health, and state-of-the-art academic research buildings. These are projects identified in the 2012 Master Plan, the 2016 Science and Engineering Framework Plan, and the 2016 Residential Masterplan These projects will be funded by Lehigh through P3 development, the bond issue,		<b>Planning</b> projects are critical as current Path to Prominence in supporting Lehigh's mission. This second phase of projects are in the predesign phase, with the anticipation that implementation will be funded through philanthropic gifts or grant opportunities.		
commercial paper, and philanthropic support		E.W. Fairchild-Martindale Library Renovation	<b>0.40.50.1</b> 6	
Building C - C1/Crescent & AAD Fitout Completed	\$30 M	TBD	\$40-50 M	
Completed		Packard Lab Renovation		
SouthSide Commons	P3	TBD	\$78-90 M	
Completed		Building B Renovation		
<b>Chandler-Ullmann Renovation</b>	\$31.3 M	TBD	\$30-45 M	
Completed		Landscape/Infrastructure Upgrade Projects		
Brinker Lofts	P3	TBD	\$10 M	
Completed		Wellness (Health, Fitness, and Counseling) Planning Study		
New Residential Houses		TBD (in process)		
Fall 2020 Completion: South (Phase 1)	\$79 M	Goodman Campus Planning Study		
Fall 2022 Completion: North (Phase 2) (sche Site & Landscape	edule currently under review) \$61 M \$2 M	TBD (in process)		
Site & Landscape	φ∠ IVI	College of Education Program Study		
<b>Health Science &amp; Technology: Packer</b> Fall 2021 completion (Packer)	\$145 M	TBD (in process)		
University Center Renovation & Addition Fall 2022 Completion (schedule currently un				
Temp Dining Pavilion/Supplemental Improve				
(schedule currently under review)		Notes:		
CDE Europeier	\$22.5 (\$12.5M aggreening d by B2D)	Philanthropic support may modify project priority and Phas	9	
CBE Expansion TBD pending fundraising	\$32.5 (\$12.5M committed by P2P)	Cost estimates may not include annual escalation that may 18%.	range from 4-	
TOTAL	\$492.8	• Costs reflect estimates as of today, escalation is fully calculated in the control of the cont	ated as start	

date is TBD

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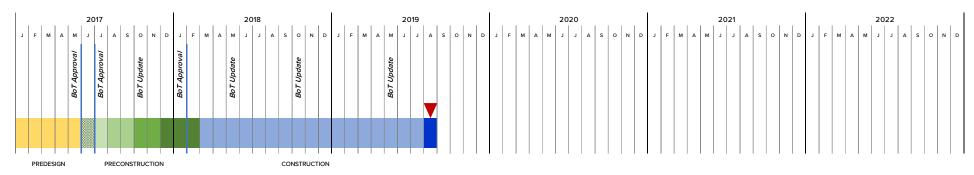
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### Status: Southside Commons Residence Hall



#### **SCHEDULE**



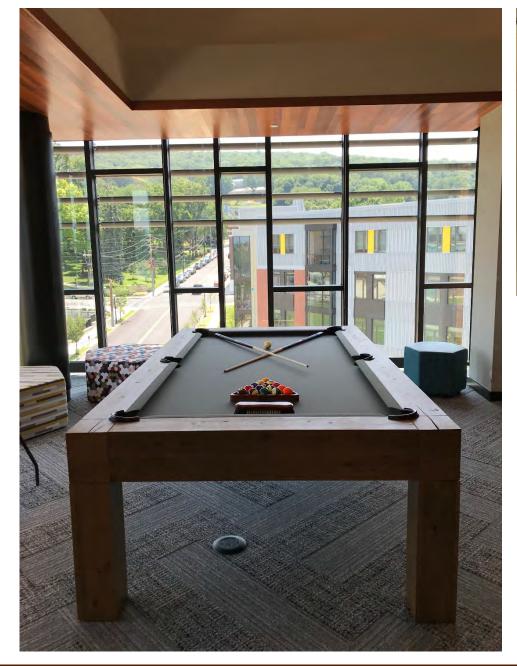
#### **EXPENDITURE**

Description	Priority	Design Team	Status	Location	Total Project Cost
·	Phase 1 project required for LU student growth beginning 2019 Brailsford & Dunlavey (Advisor)			Packer Avenue	No capital cost to Lehigh Project costs for consultants and enabling work \$1.3M
175,825 GSF		EdR (Developer) P. Agnes (CM) Philadelphia, PA			

SouthSide Commons is complete with students expected to start moving in early August. As of this time, almost 70% of the units have been leased.

The project features 428 beds, with common lounge, study, and fitness spaces available to students. The design bridges the Lehigh campus and the SouthSide neighborhood, establishing a critical gateway and connector between University and Bethlehem.

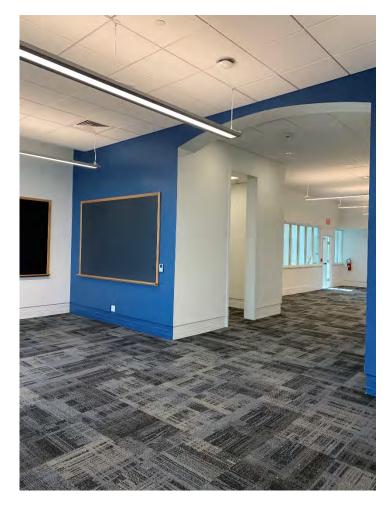
### SouthSide Commons Residence Hall







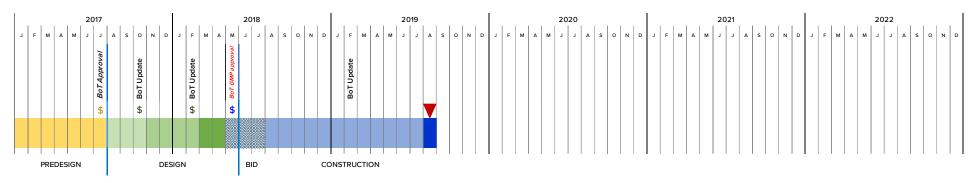
### Chandler-Ullmann



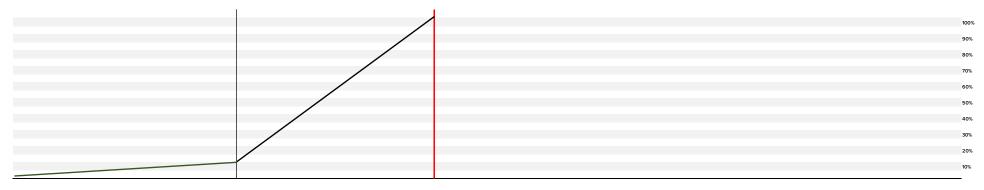




### Status: Chandler-Ullmann Hall



#### Schedule



#### **EXPENDITURE**

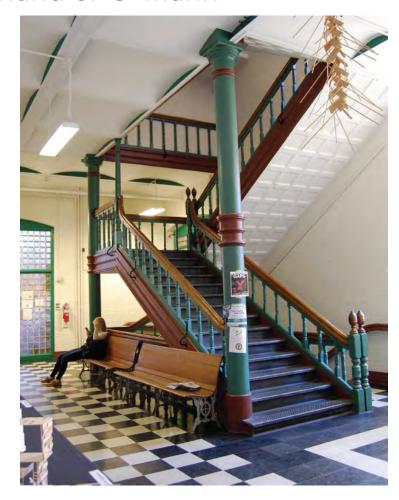
Description	Priority	Design Team	Status	Location	Total Project Cost
94,658 SF Renovation	building and providing new space for Mathematics, currently in Christmas-	Philadelphia (Architect) Turner (CM)	DESIGN Complete Summer 2018 CONSTRUCTION Complete August 2019		\$31.3 M Spent to Date \$25.7 M

Chandler-Ullmann Hall may be Lehigh's most significant historic building. Originally constructed in 1884, Chandler Hall was the first purpose-built chemistry academic building in the United States. Enlarged with the Ullmann wing in 1938, it was home to the Chemistry department until 1975. Until this past summer, the building was occupied by Psychology and Art, Architecture and Design (AAD).

The 94,600 GSF renovation will upgrade the building systems, increase accessibility, and provide contemporary offices and classrooms for the Mathematics Department and Psychology Department.

Chandler Ullmann is ready to open for the Fall semester after a complete building renovation. The Certificate of Occupancy was issued on July  $31^{\rm st}$ , and moves into the building are ongoing

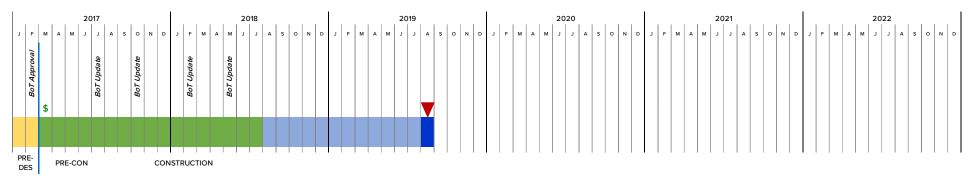
### Chandler-Ullmann







### Status: Brinker Lofts



#### **SCHEDULE**



#### **EXPENDITURE**

Description	Priority	Design Team	Status	Location	Total Project Cost
Development	Phase 1 project building on recommendations from 2012 Master and enhancing LU presence	(Development Team)		321 Adams Street (@Fourth Street)	No capital cost to Lehigh Project costs for consultants and enabling work \$1M

Service Building (also known as the "icehouse"), into 30 apartments and 1 retail space. The University signed the 50-year ground lease on Friday, August 25, 2018. Construction is scheduled to take 1 year.

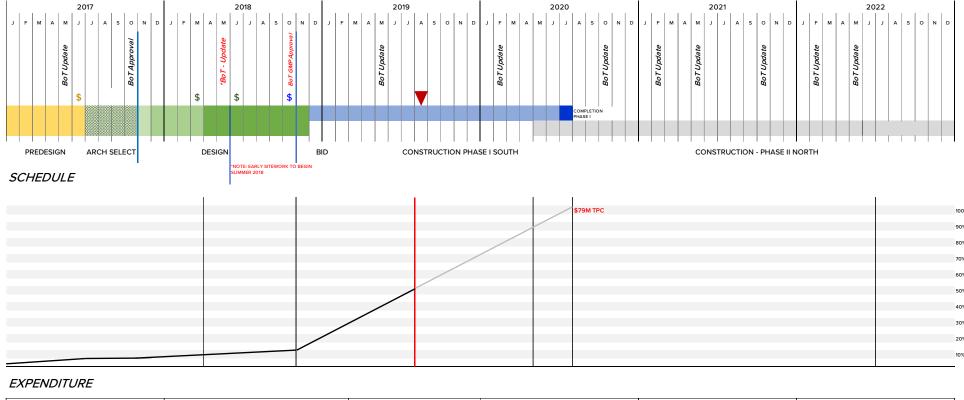
Construction will entail the partial demolition of the engine house building to create a courtyard. The newly formed courtyard, which has direct access to the greenway, will provide outdoor seating for the retail space and can be utilized by the tenants of the building.

Local developer Charlie Jefferson is redeveloping Brinker Lofts, formally Lehigh's Most of the windows for the apartments will face the courtyard, thereby preserving the historical south and west facades of the storage portion of the building and complying with the National Park Service's requirements for eligibility for historic tax credits. Rents will range from \$995 to \$1425 per month. Most units have twobedrooms.

> Construction is complete, with the residential units fully rented. Work remains in the retail space and lease is yet to be signed.



### Status: New Residential Houses Phase I



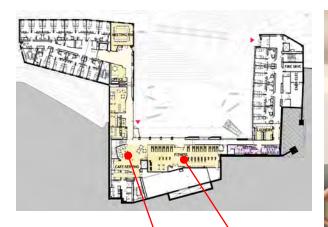
Description Priority Design Team Status Location Total Project Co	,31
New Residential Houses Phase I (South): 142,330 GSF / 405 Beds Phase II (North): 111,511 GSF / 315 Beds  Phase 1 Project required for LU student growth beginning 2019  Sasaki (Architect) Boston, MA Whiting-Turner (CM) Allentown, PA  Sasaki (Architect) Boston, MA Whiting-Turner (CM) Allentown, PA  Sasaki (Architect) Boston, MA Whiting-Turner (CM) Allentown, PA  Fall 2020 (Phase I: South) Fall 2022 (Phase II: North) currently under review  Phase I existing Trembley Houses and Upper Trembley Parking Lot Site: \$2M  Spent to Date \$17.8 M	

New Residential Houses Phase I and II will replace Trembley Park and, with the UC, create a new residential district on campus. The project will include over 700 beds for primarily first and second year students.

Phase 1 will consist of approximately 405 beds; while Phase 2 is approximately 315 beds. Note that the current proposal is 70 beds larger than master plan, equal to \$12-14M value.

Steel work for the Phase I project is well underway, with all three houses now taking form on the site. In the upcoming months, the exterior walls will be framed, which will allow many more subcontractors to begin their work, such as masonry, interior infrastructure, interior wall framing, and windows. The project is on schedule for a Fall of 2020 opening.





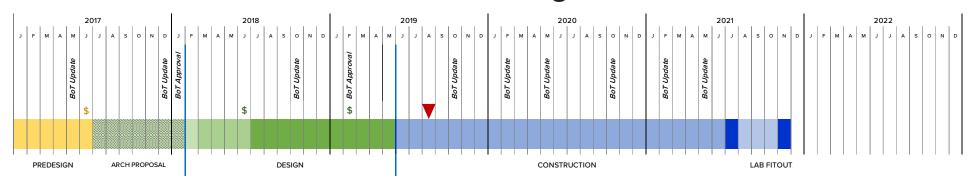




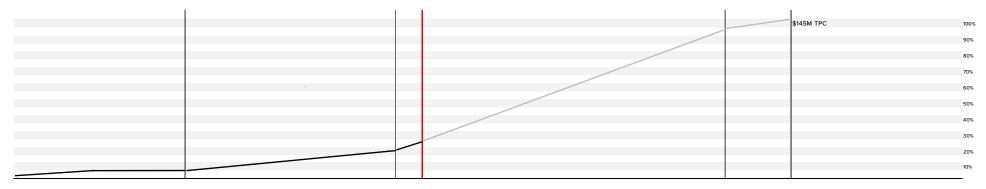
# Health, Science, & Technology



### Status: HST Academic Research Building



#### **SCHEDULE**



#### **EXPENDITURE**

Description	Priority	Design Team	Status	Location	Total Project Cost
		, , , , , , , , , , , , , , , , , , , ,		Packer Campus – Whitaker Parking	\$145M
190,000 GSF	,,	1	Completion May 2019	Lot	
	provide interdisciplinary research loci, and support the College of Health	Philadelphia, PA			
	support the College of Health	Filliadelpilia, FA			Spent to Date
					\$4.5M

The Health, Science, & Technology (HST) Building is a 192,000 SF interdisciplinary research facility that will be the administrative home to the new College of Health. However, the building will serve the broader academic community and organized entirely according to research themes and activity.

The architecture itself aids the collaborative atmosphere. Dry and wet labs will be arranged around offices, open workspace and meeting spaces, creating a beehive of activity. Situated on what is currently a parking lot next to Whitaker Lab, HST will anchor the district, which also includes Mudd, Whitaker, and Sinclair.

Construction began in July with fencing off the site, tree removal and relocation, and demolition of the parking lot. Work will continue with excavating for the buildings lower floors and foundations. The excavation will be 35' deep, with concrete for the foundations is expected to start in October.

HST remains on target to open in Fall of 2021



# Health, Science, & Technology







# Health, Science, & Technology

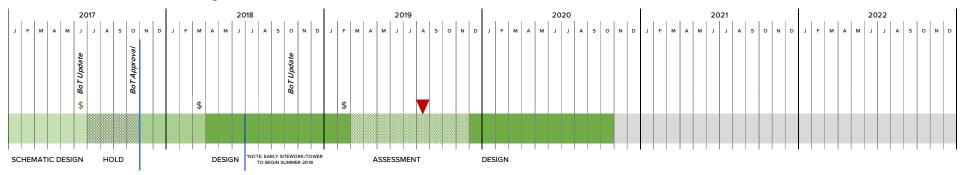




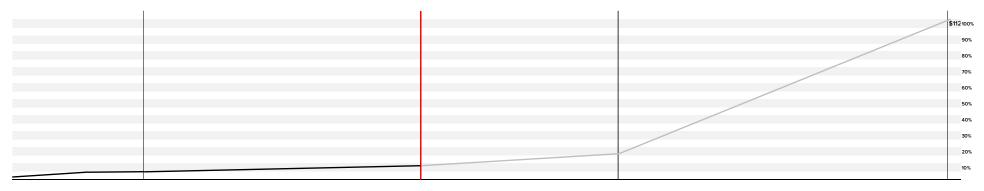




### Status: University Center



#### **SCHEDULE**



#### **EXPENDITURE**

Description	Priority	Design Team	Status	Location	Total Project Cost
Existing Student Center	Project to update UC to provide modern	Shepley Bullfinch Architects	DESIGN	Packer Campus	\$112 M
65,000 SF Renovation	amenities and dining for expanding	(Architect)	Under assessment Fall 2019		
77,000 SF Addition	student body	Boston, MA	Construction Completion TBD		Spent to Date
		Whiting-Turner (CM)			\$3.8M Reno/Addition
		Allentown, PA			\$2.8M Tower
					\$220,000 Temp Dining Prep

Comprised of a 55,000-square-foot renovation and a 70,000-square-foot addition, the UC project will result in a state-of-the-art student facility that offers the types of services today's prospective and current students demand. Enhancements include dining spaces, event venues, additional recreational and work spaces, and amenities such as a coffeehouse/pub, exterior courtyards, and flexible spaces to accommodate the more than 150 student clubs on campus. The project is currently on hold as we await the findings of a Dining Study related to student growth and changes on campus.

The Dining Study, which is expected to be complete in October 2019, will identify the dining needs on campus, as well as providing recommendations for the dining program to be included as part of the UC renovations and addition. Given the many changes to Lehigh's campus, such as NRH, South Side Commons, and HST, the Dining Study was initiated to confirm Lehigh's program and plans for the UC, and how it will continue to feed and support Lehigh students for years to come.

# **University Center**



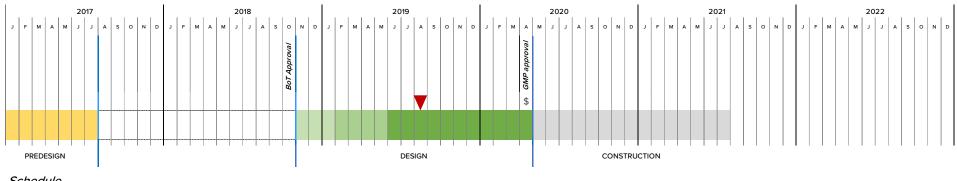
# **University Center**



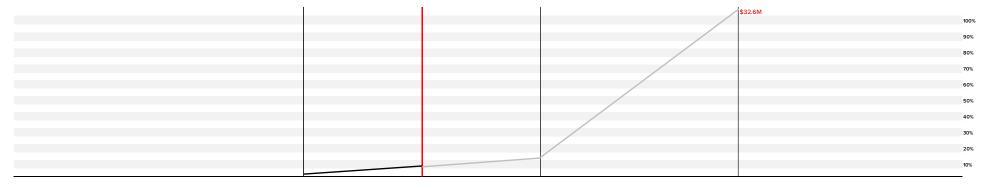
# **Business Expansion**



### Status: Business Expansion



#### Schedule



#### **EXPENDITURE**

Description	Priority	Design Team	Status	Location	Total Project Cost
New Academic Building 60,000 GSF	New academic building to house Executive Education, MBA programs, and media and communications labs		DESIGN Complete winter 19-20		\$32.6M Spent to Date: \$800,000

The College of Business Expansion is a 60,000 SF building intended to house MBA and Executive Education programs, as well as new flexible and technology-forward classroom and experiential learning spaces.

The building will relieve the Rauch Business Center from its struggles with overcapacity, allowing for reorganization of administrative spaces to better serve undergraduate programs and make better use of the existing building. It location along Packer Avenue will reinforce the academic activity running eastwest along this important axis.

Quadratus Construction has been selected as Construction Manager for the project. The CM is working with the design team to confirm overall construction costs, prior to moving into the Design Development phase. It is anticipated that construction will begin in late Spring of 2020 for this new building, pending fundraising goals.

# **Business Expansion**



# **Business Expansion**



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### Center for Career and Professional Development

The Center for Career and Professional Development (CCPD) renovation on the 5th floor of Maginnes is now complete. The center is now relocated from its previous location on the 4<sup>th</sup> floor of the Rauch Business Center. This new space will provide the program updated spaces and a central location on campus, as well as freeing up essential space for the College of Business



#### Fairchild Martindale Café and Service Desk

As part of the continuing evolution of student space on-campus and in line with the library's masterplan of 2016, plans to relocate and expand the current cafe space from the lower level to the main lobby floor of Fairchild Martindale Library are coming to fruition this summer. Offices to the rear of the circulation desk area are being removed, the building facade visually opened up to the exterior courtyard and then re-purposed for an expanded Cafe area with more dining options, open seating, and new restrooms. The new Café will be open for the start of the Fall semester 2019.

This café is also an enabling project in anticipation of work on the UC, providing additional retail capacity on campus.



### **Electric Reliability Work**

Lehigh University owns an electric substation on Mountaintop Campus where power is received at 69,000 volts from Pennsylvania Power and Light (PPL). Roughly 90% of Lehigh's electric power comes through the substation, and 75% of that is for Asa Packer Campus.

Lehigh's electric distribution lines connecting the substation to Asa Packer Campus were installed in the late 1980s and are in need of replacement. We have elected to install a new system underground. This work began in July 2018 and will be completed during winter break of 2019-2020. Upon completion, this project will eliminate overhead system reliability issues, and ensure continued power reliability for Asa Packer Campus for several decades.

The new electric distribution system will have a greater carrying capacity to serve new and renovated buildings included in the Path to Prominence. The first phase of the Project was energized on June 15. New switchgear will be commissioned August 2019.

### On-Site & Off-Site Renewables

Lehigh, with the help of a consultant, has been conducting request-for-proposal processes to procure renewable energy from both on-site and off-site installations. Both procurements have identified a few select finalists, and in each case contract negotiations are expected to begin soon with a single finalist. In both cases solar energy will be purchased, most likely starting in 2021. The on-site installation will be located on the southern edge of Goodman Campus and is expected to produce slightly more energy than that campus normally uses each year. The off-site purchase quantity will roughly match the remainder of the University's annual electric usage. The off-site purchase will be completed in association with several other Pennsylvania colleges. Each college seeks to reduce its own carbon emissions at a price lower than what any individual college would be able to obtain on its own.





