

# The NextGen Energy Program

## The Path to Our Sustainable Energy Future.

The NextGen Energy Program (NextGen) plays a critical role in ensuring that the University of Maryland can depend on a sustainable energy system for decades to come. NextGen not only puts us on a pathway to achieve the university's goal of a fossil fuel-free energy system by 2035, but will also increase our efficiency and sustainability, reducing carbon emissions from our Central Energy Plant by 23% and saving 50% of the total water usage the plant requires annually.



NextGen will serve as one of the key platforms that will allow the university to meet and **surpass its sustainability goals and achieve a fossil fuel-free energy system by 2035.**

“A carbon-neutral campus is a significant step, but now it's time to set our sights on reducing UMD's dependency on fossil fuels. **We are committed to a fossil fuel-free power plant under the NextGen Energy Program.**”

- Darryll J. Pines, President, University of Maryland



The modernization and flexibility of our improved energy system will allow UMD to incorporate emerging technologies. NextGen will provide:



Improved operational efficiency, water recycling and decreased energy loss



Flexibility to incorporate low and zero-emission fuel options in the future



Energy conservation through enhanced building controls and monitoring systems



Energy resiliency enabling UMD to support the campus and surrounding community during power outages

NextGen will renew and modernize our systems to drive the University's success and support our mission of excellent teaching, research and service.

## How NextGen Will Improve Our Energy System

The University of Maryland’s current system is aging, inefficient and becoming less reliable. We conducted extensive research and evaluated a range of options to replace it in a way that is consistent with our core values and aspirations and best serves our community, now and for future generations.

NextGen leverages a public-private partnership to secure an innovative, effective and financially efficient approach for the University. Our partner is Maryland Energy Impact Partners (MEIP), which includes Plenary Americas US Holdings Inc., Kiewit Development Company, Kiewit Power Constructors Co and Honeywell International, Inc, a group of experienced operators. In partnership with MEIP, NextGen will:

- 1 Update the aging distribution system to make heating and cooling campus buildings more efficient and minimize outages
- 2 Implement measures to increase efficiency
- 3 Make modifications to incorporate renewable energy sources and technologies
- 4 Utilize existing utility budget allocations to fund renewal and modernization of the campus energy system

## MEIP will provide academic collaborations that include opportunities for undergraduates, graduates, and faculty members and researchers including:



Student scholarships and internships

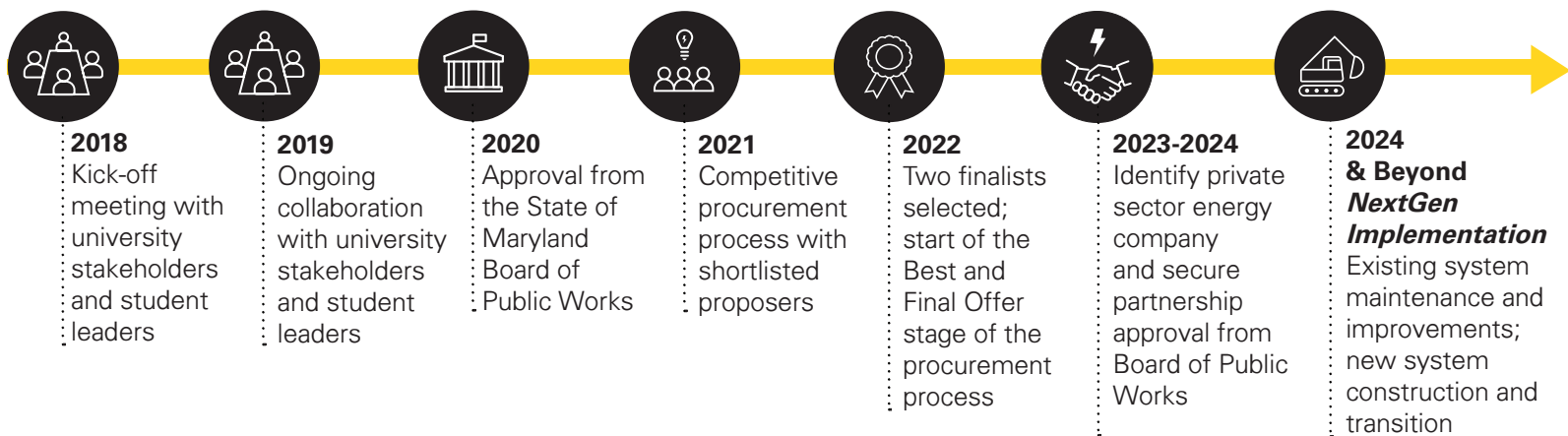


Groundbreaking research in collaboration with faculty and students



New and innovative academic programs

## Getting to NextGen: A Roadmap



As the NextGen Energy Program progresses, we are committed to working alongside the State, the university community and other stakeholders.

