

CAMPUS-WIDE ENERGY EFFICIENCY (CRP)



PROJECT DESCRIPTION

The United States uses more energy per capita than any other country in the world. This problem cannot only be solved by switching to renewable energy but must also be addressed by reducing Villanova's energy impact. An energy audit will be conducted on campus and adjustments will be made to decrease energy intensity. All campus lighting will be updated to LEDs and occupancy sensors will be installed to further reduce lighting loads. HVAC and building envelopes will be evaluated and requisite improvements will be completed. These improvements will save the university money by reducing energy needed and decrease energy impact and greenhouse gas emissions.

PROJECT UPDATES

Money in energy fund is tight now. Energy projects can start in the summer of 2021.

PROJECT OUTCOMES

- Install campus wide meters, see "campus wide smart meter project"
- Plan for building level LED lighting replacements based on planned upgrades to buildings
- Improve the energy efficiency of equipment
- Reduce energy intensity HVAC

AFFECTED METRICS



Metric	Metric Description	2021 Key Results
7.2	Campus's energy intensity (site energy).	Develop a plan to reduce energy intensity.
9.2	Scope 1 and 2 net greenhouse gas emissions.	
13.1	Scope 1 and 2 net greenhouse gas emissions.	Develop a plan to reduce Scope 1 and 2 emissions to meet the 1.5 IPCC report by 2030. Buy at least 10% of electricity from renewable sources.