Littleton Tyler
Dean of Administration

VERMONT TECH

Who We Are

- Vermont Technical College is part of the Vermont State College System (VSCS)
- Educating about 1,600 students annually
  - 85% of students are In-State
  - 48% of students are 1st generation college attendees
- 85% of our revenue comes from our students through tuition & fees
- We provide hands-on education that positions our students to obtain great jobs in the high-tech careers that form the backbone of Vermont's growth economy.
- We transform the lives of Vermonters and, in doing so, empower Vermont communities.

How Vermont Tech Uses Energy

We Have:

- 2 bricks and mortar and 9 satellite campuses, allowing us to reach Vermonters in even the most remote parts of the state
- 5 dorms and 14 academic buildings in addition to general physical plant infrastructure substantial agricultural holdings.
- Our oldest dorm was built in 1918. Most of our other Randolph Center dorms and academic buildings were built in the 50's and 60's.
- Williston Campus academic buildings were built in the 1980's. The Residential hall was built in 1995.

How Vermont Tech Uses Energy (Cont'd)

We Use*:

#4 Oil	$450,000
Electric	$600,000
Propane	$100,000
	$1,150,000

A Substantial Impact:

3.1% of our $35M Budget

*2 Year Consumption Averages

How Vermont Tech Generates Energy

- Solar: 500kw array.
- Cutting edge anaerobic digestion facility: 370 kW output
- By our estimation, in FY 18 on-campus installations in Randolph Center will generate more electricity than the campus consumes
- We have excellent in house expertise: Architectural Engineering faculty & Renewable Energy faculty.
- With a track record of successful implementation of medium to large scale energy projects, we have the capacity to conduct projects quickly and efficiently, and to track program results.

Partnership With EVT

EVT Projects

- Utilized EVT for approximately $50,000 of funding over fiscal years 2015 through 2017, with projects including:
  - Extensive retrofitting of campus lighting
  - Lab renovation
  - Feasibility studies related to efficiency projects

VTC Expense

- Approximately $50,000 paid into fund in FY 2017

Our Needs & Opportunities

- Aging infrastructure offers tremendous opportunity for efficiencies especially thermal & insulation.
- As an example of projects ready to undertake and awaiting funding:
  - Two of our academic buildings in Randolph, Morrill and Conant, require window replacement, at a combined projected cost of $310,000.
  - Two of our buildings, Williston 200 and Hartness Library, require new roofs, at approximately a combined cost of $240,000.

Our Needs & Opportunities (Cont'd)

- Our Anaerobic digester offers unique efficiency opportunities. The facility generates, in addition to electricity, a tremendous amount of heat. This can be tied directly into our physical plant infrastructure, for an immediate reduction in fossil fuel consumption. The total project cost is upwards of $500,000, but the project can be compartmentalized into a handful of smaller projects.

- Greater flexibility in usage of efficiency funds would allow us to quickly advance with cash-saving energy projects.