



a student guide to
the future of
The Putney School



The information presented to you in this document was gathered from the following sources:

The Master Plan - can be found on our school's website

Net Zero Goals

Strategic Plan - former strategic plan on our school's website

New dorms designs presentation from MacClay Architects

Interview with Randy Smith about the new Strategic Plan (which is still in the making) and the new dorms

Interview with Michael Sardinias about the Master Plan, its progress, and the new dorms

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presented to you by
Sustainability Squad

Strategic Plan?

The Strategic Plan is a 10-year vision, with three-year goals, that establishes what our priorities and goals are. It focuses on substantial and overarching aspects of the school.



1. Progressive Education:

“We must strive to create the strongest academic program, as defined by our mission, the needs of our students, and the needs our society.”

We are now focusing on revising the graduation requirements. This will include both academic requirements, and other experiences we want students to have.



2. Diversity and Cultural Fluency:

“To prepare our students to be effective citizens we must ensure that they appreciate how to live and work in a diverse community”

We commit to expanding our diversity and cultural experiences for existing students, through:

- Support all students to have a significant experience in a different culture
- Making sure that our curriculum develops skills in cultural fluency
- Improve efforts in recruiting students and staffs of a diverse population

3. Sustainability and Land-use:

We are prioritizing making our buildings and lands as sustainable as possible. This is explained more in depth in The Master Plan, and the Net Zero goals.

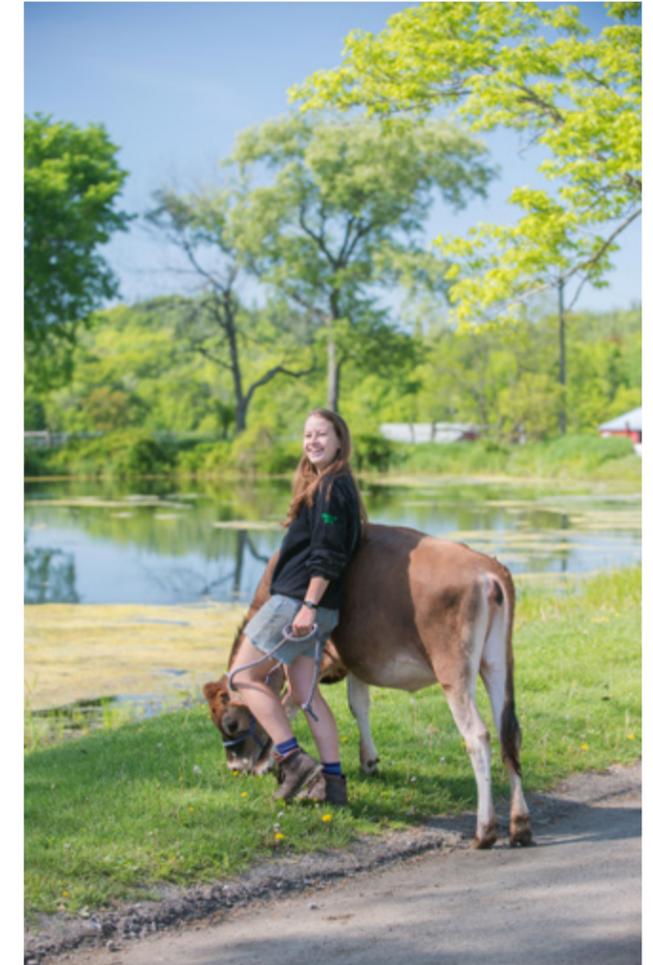
Furthermore, we commit to further integrate environmental sustainability into our academic program. Students should graduate with awareness and initiative to make sustainable change.



4. Finance and Development:

All major changes on campus will require capital campaigns - fundraising from a variety of sources.

We are now prioritizing raising money for, and building the two new dorms.



The Master Plan?

The Master Plan is a plan of upcoming changes, specifically to the infrastructure of our school. It includes analyses of both our existing campus and plans for the future, including net zero goals. Its focuses are both short and long term, ultimately aiming for a campus that is more workable, more livable, and more sustainable.

It is created by Putney faculty students, administrators, and an outside consulting firm.

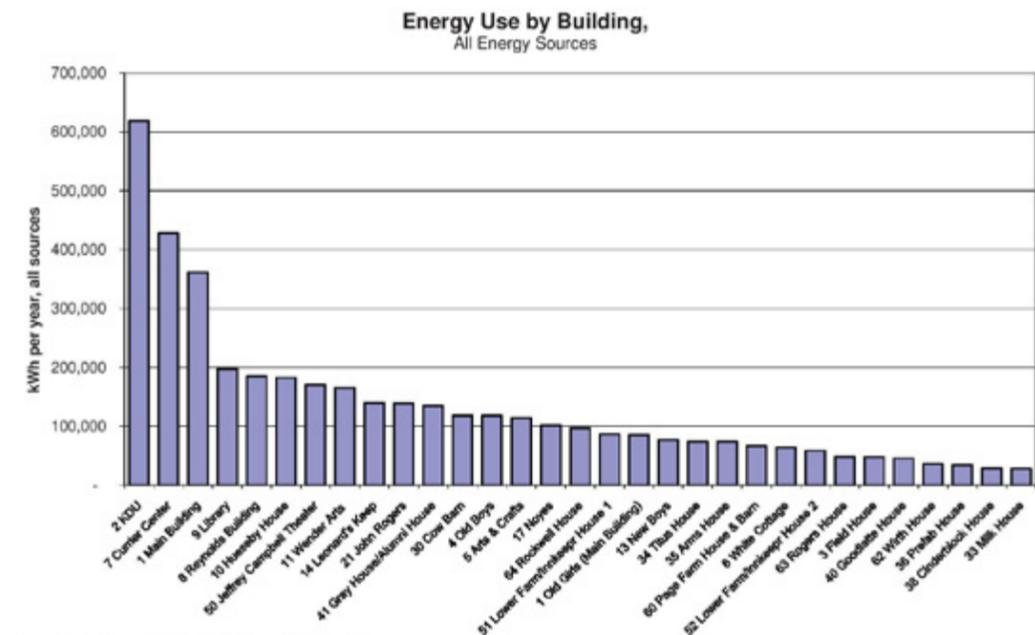
Goals:

- Become a net-zero campus by 2020 while still maintaining the history of central campus.
- Develop improved living spaces for both students and faculty that help foster community.
- Create spaces for students' work to be highlighted.
- Update roads and infrastructure.
- Integrate the theater into the central campus.
- Evolve Putney into a place where we want to be and will be proud of for years to come.



In order to identify where the greatest need for improvement exists, the Master Plan looks at energy usage on campus building by building.

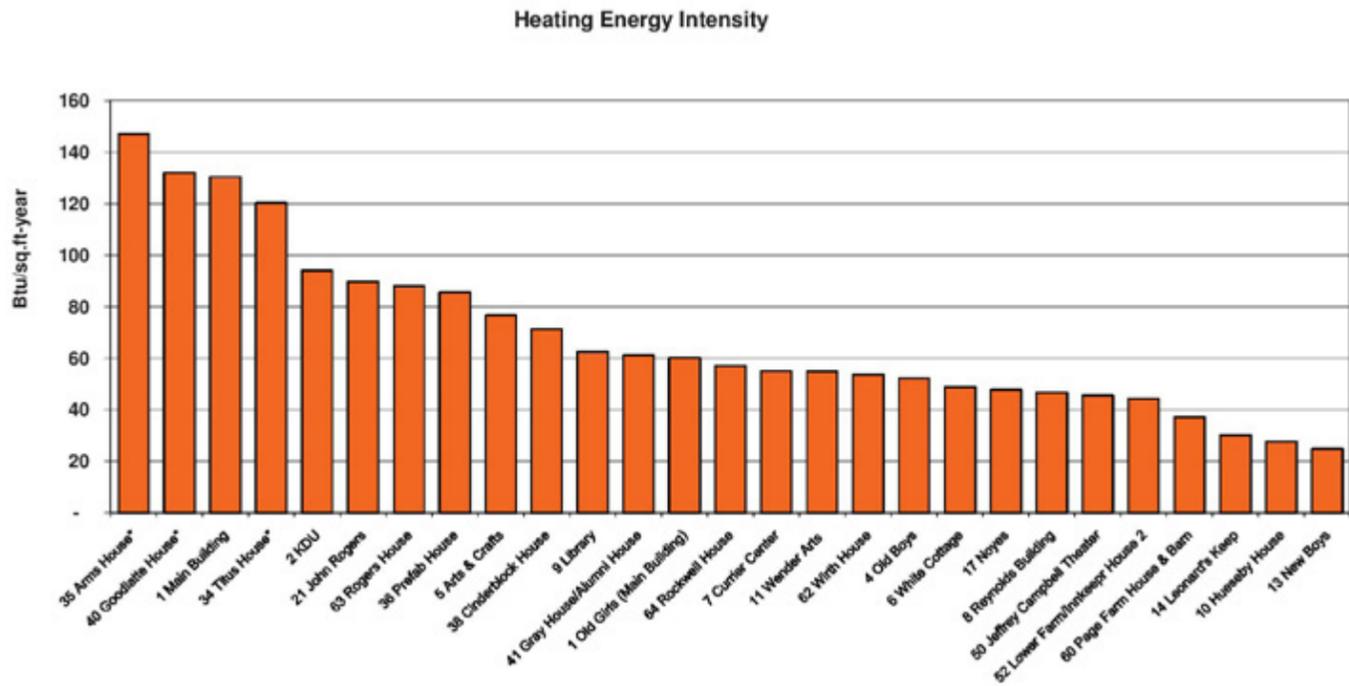
Figure 1 looks at the total energy usage by each building on the campus. All fuel types are included – oil, propane, wood and electricity



As seen from this chart, the KDU is the highest energy user due to the inclusion of the commercial kitchen.

Where can you find the Master Plan?
On the Sustainability page under "How We Live" on the website, the presentation at the bottom of the page has a link to it in ISSUU.

Figure 2 looks at heating energy use in each building per square foot, or Heating Energy Intensity. It indicates which buildings would benefit most from building enclosure upgrades and from heating system efficiency improvements.



Plans for the Future:

1. Energy Use and Building Sustainability

As part of our attempts to become a net-zero campus by 2020, we're trying to upgrade our buildings to reduce energy and heat usage. The Master Plan looks at every building on campus and identifies what needs to be done.

Here are some current usage statistics:

- The most energy-efficient building is the Field House (obviously).

- Buildings-only energy costs about \$440,000 per year.

- Total CO₂ emissions are yearly about 1400 tons.

Upgrades of buildings depend on how much funding we can raise.

One example of an upgrade is the new and more sustainable wood pellet boiler for our Main Building in place of former oil-fired boiler.



2. Changes to Student and Faculty Housing

Older buildings on campus are not very environmentally sustainable, and are generally ineffective in terms of space and day-to-day usage. Here are some planned changes:

- Old Boys will be torn down

- Old Girls will become classrooms.

- The 10 classrooms in Reynolds will become 6 more effective classrooms.

- New dorms will be built

- Basement of Keep will be closed

3. Building a New Theater

The Jeffrey Campbell Theater is now beyond-repair due a number of reasons including meeting fire code regulations. The Master Plan recognizes that building a whole new theater on campus would be more convenient for the theater program, and would allow easier parking!



Possible sites:

- In place of Old Boys

- Near White Cottage/ The Learning Center

- West Side of Currier

- Between The Puddle and JR



Net-zero Goals

We have set out on a project to make our 500-acre campus into a net zero energy system - to produce more energy than we use.

The purposes of this net zero project are:

1. Educational Modelling: our campus and all its systems and structures will function as a living laboratory and example to Putney students, and other schools where environmental sustainability is prioritized. A net zero campus will raise the bar for other institutions.

2. Cost Savings: we currently spend more than \$400k a year on energy. Therefore, becoming more energy efficient will allow us to spend more of the money formerly spent on energy on financial aid, faculty salaries, and educational programs.

3. Reduced Carbon Footprint: reducing the carbon footprint and greenhouse gas emissions of this community of nearly 300 individuals will have a significant and positive impact on our environment.

To become a net-zero campus:

- Building two '**renewable ready**' dorms - efficient enough to use a minimum amount of renewable energy
- Upgrading *all buildings on campus* to be '**renewable ready**'
- We will need an additional solar array to provide the needed energy when the school is ready to fully transition to renewable energy
- Find ways to take vehicles on campus (including tractors and buses) off fossil fuel

Progress so far:



- We have built a net-zero, LEED platinum Field House
- We have upgrading several existing buildings including the KDU, Faculty Room, the Library, the Main Building, and the Goodlatte House

The New Dorms?

As our Master Plan focuses on making our campus more workable, livable, and sustainable, we are working towards building two new highly sustainable dorms that are going to improve living spaces.

In the school year of 2014-2015, a committee of students and faculty was formed to conduct research on what an ideal dorm would look like, possible sites for its construction, and how to make it most sustainable.

Bill Maclay - the architect leading this project - has also conducted a design charette open to everyone to ensure that the new dorms will be built to satisfy our community's needs and values.



Where will they be?

1. Near New Boys dorm (existing green houses will be relocated)
2. In the direction of Paige's field



The new dorms are going to be **renewable ready**, meaning that not only do they produce energy, they will be efficient enough to run using minimum amount of renewable energy.



*note solar panels on roofs



they are designed to have:

1. Space for twenty-two students (we have decided together, that this is the best number of students for a dorm)
2. Mud rooms will be enclosed, and can be accessed from the entry way
3. Faculty apartments will have three bedrooms, and private open spaces such as decks
4. Swing rooms in between faculty and students' spaces for conversations between dorm parents and students



