



THE
WILD
CENTER







First LEED Certified Building in the Adirondack Park

First LEED Certified Museum in New York State





Climate Change and Green Initiatives

Carbon Audit of Adirondacks

Climate Change Conferences

Green Building Conferences

ADKCAP - Community Climate Action Planning

Youth Climate Summit for Adirondack Students

Movie ***A Matter of Degrees*** to NY schools

New Path green building exhibits

Local Food Programs & Weekly Farmers Market

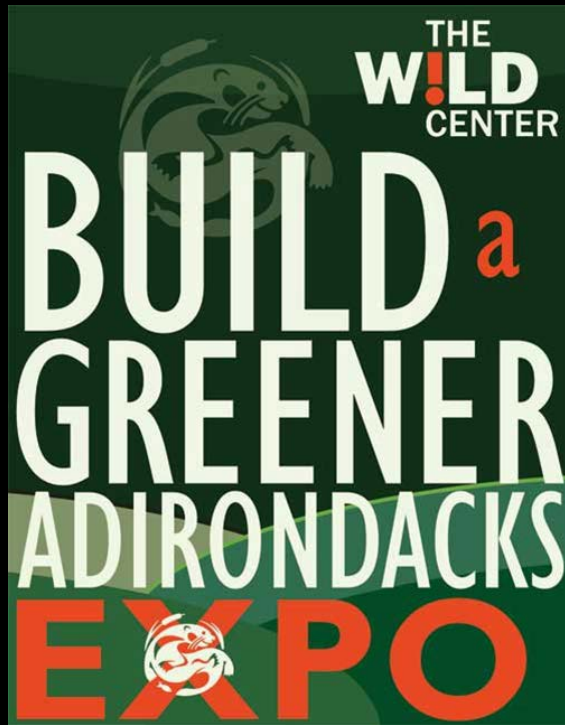
Ongoing Internal Green Team

Green Weddings

Demonstration Project: Pellet Gasification Boiler with Solar Thermal Panels

Convening the Community around Energy and Climate Issues





Conferences and Training



Hosted Training During Installation of Solar Thermal Units







New York natives

Stop here a moment and meet some of the locals. Silver maple, lowbush blueberry and yarrow.

They are just a few of the native species of plants that live here at The Wild Center. Because native species are adapted to this place, they require less maintenance than exotics. That means less watering, fertilizing and pest control - and that means less waste and less impact. Over 90% of the Wild Center's plantings are native.

As you continue down the trail, be sure to pause to take in more of the local Adirondack color.

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The Wild Center is proud to be a member of the USBC.



Starry night

A night sky filled with millions of stars. A crystal clear view of the Milky Way. Just a couple of things that make the Adirondacks a special place.

Exterior lighting can fill the night sky with unwanted light, making it nearly impossible to see the stars. The Wild Center chose exterior lighting fixtures specifically designed to minimize the amount of stray light.

Next time you're in a city at night, look up and remember this special place we call the Adirondacks.

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The New Path Green Tech Exhibits

New Path – Pellet Boiler

WOOD PELLET BOILER

Burning wood better
For hundreds of thousands of years humans have burned wood for warmth. New technology now makes the burning of wood much more efficient. Some new boilers create more heat, allow less of that heat to escape and release fewer emissions from the chimney.

What: What's the big deal about a boiler?
The highly-efficient wood pellet boiler is in the museum basement. The recycled shipping container where we store the wood pellets burned in the boiler holds 20 tons of pellets resulting in the equivalent of only three wheelbarrows full of ash or roughly 10 pounds for every ton of pellets burned. The tiny amount of ash is one indication of how much energy in the wood pellet converts to heat.

How: How is this technology different?
A normal woodstove burns wood once. The highly efficient wood pellet boiler burns wood once, then burns the ash from the first burn. This process is called "double burn" and it makes the boiler more efficient.

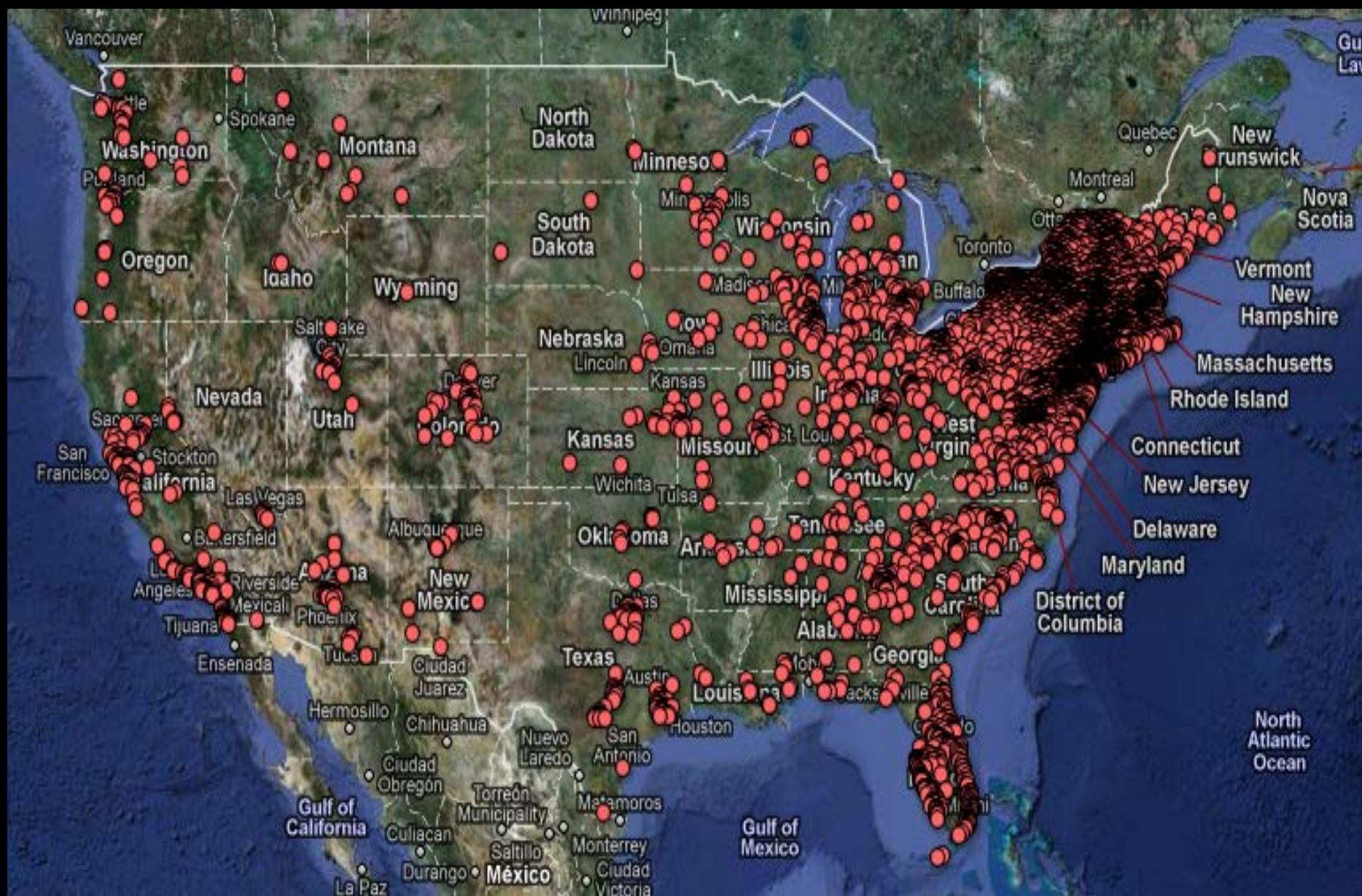
Why: Why is this technology different?
Wood pellets are made from sawdust and wood chips. They are a renewable resource. Wood pellets are a clean-burning fuel. They are a renewable resource. Wood pellets are a clean-burning fuel. They are a renewable resource.

Try this at home
Smaller systems are available for home use. They are a renewable resource. Wood pellets are a clean-burning fuel. They are a renewable resource.

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Wood Pellet Furnace Manufacturing - The Wild Center

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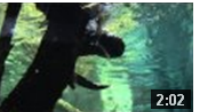


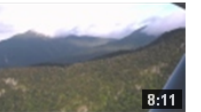










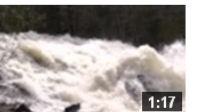

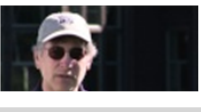



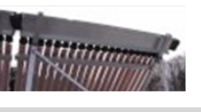
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Demonstration Project Objectives

- Evaluate performance of a highly efficient gasification wood boiler integrated with a solar thermal hot water array.
- Monitor and document emissions from an improved gasification type wood combustion system to allow comparison with conventional wood and fossil fuel boilers.
- Monitor and document emissions from improved hydronic heating system energy efficiency, benefitting from solar heated hot water, with the pre-heated water stored and released to minimize part-load operation of boilers.
- Reduce heating fuel cost and dependency on fossil fuels.
- Public outreach and education

Project Partners



Boiler: ACT BioEnergy, LLC

Solar Thermal: Sundog Solar



Emission Testing: Clarkson University

Funders

NYSERDA



USDA

Private donors





Solar Thermal & Pellet Storage

300,000 BTU/Day

Pellet Gasification Boiler

1.7 MBTU/Hr



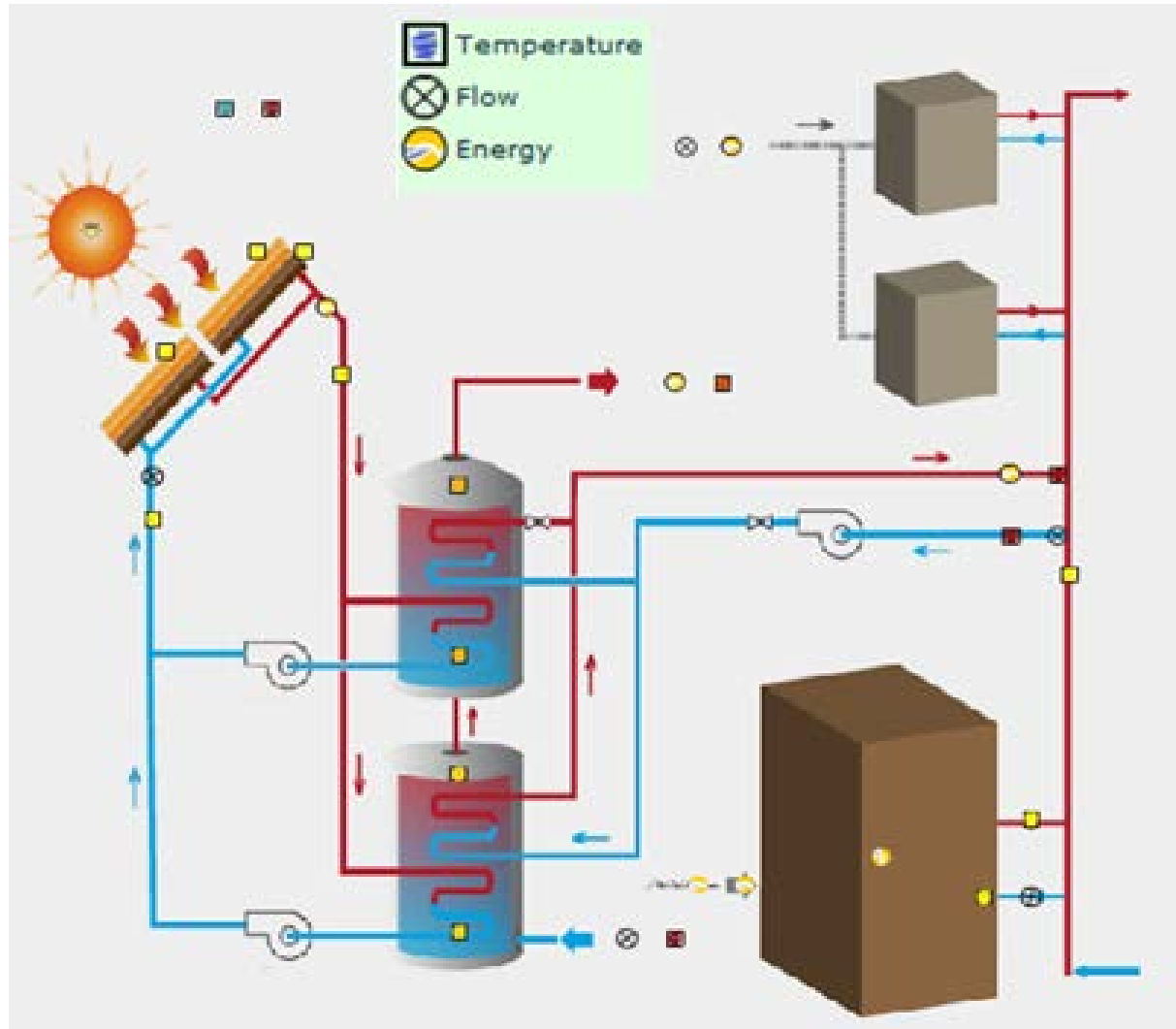
| | | | | |
|---------|-----------------|------------------------------------|-----------------|---------|
| | 12 Months Prior | Boiler Fired April 2010 | 12 Months After | |
| LP Gas | \$ 65,702.34 | | \$ 10,394.64 | LP Gas |
| Pellets | \$0.00 | | \$ 23,655.45 | Pellets |
| | \$ 65,702.34 | | \$ 34,050.09 | |
| | | | | |
| Savings | | \$ 31,652.25 | | |



Tanks for Hot Water Storage



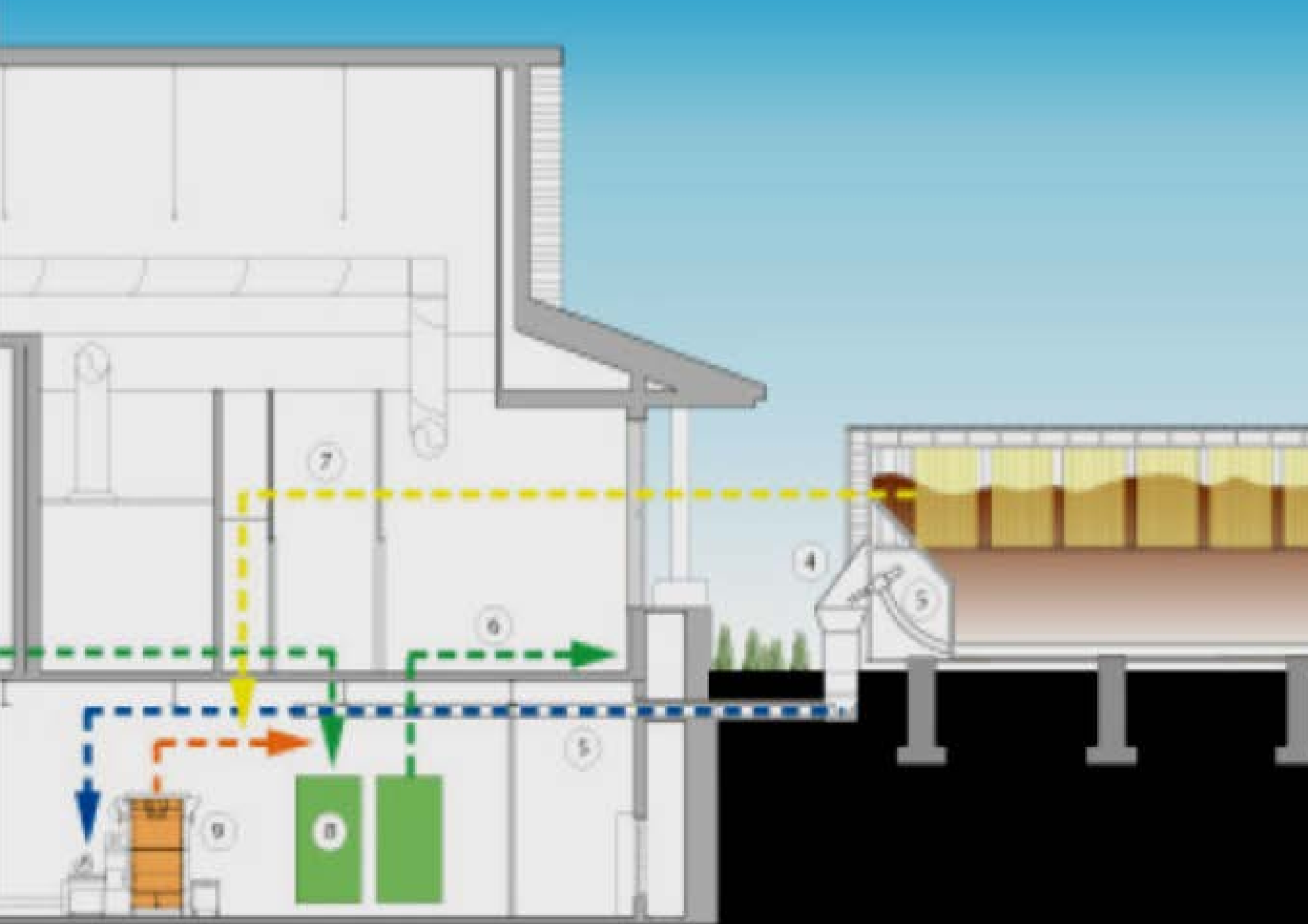
Heat Flow to The Wild Center



FSC Certified Wood Pellets

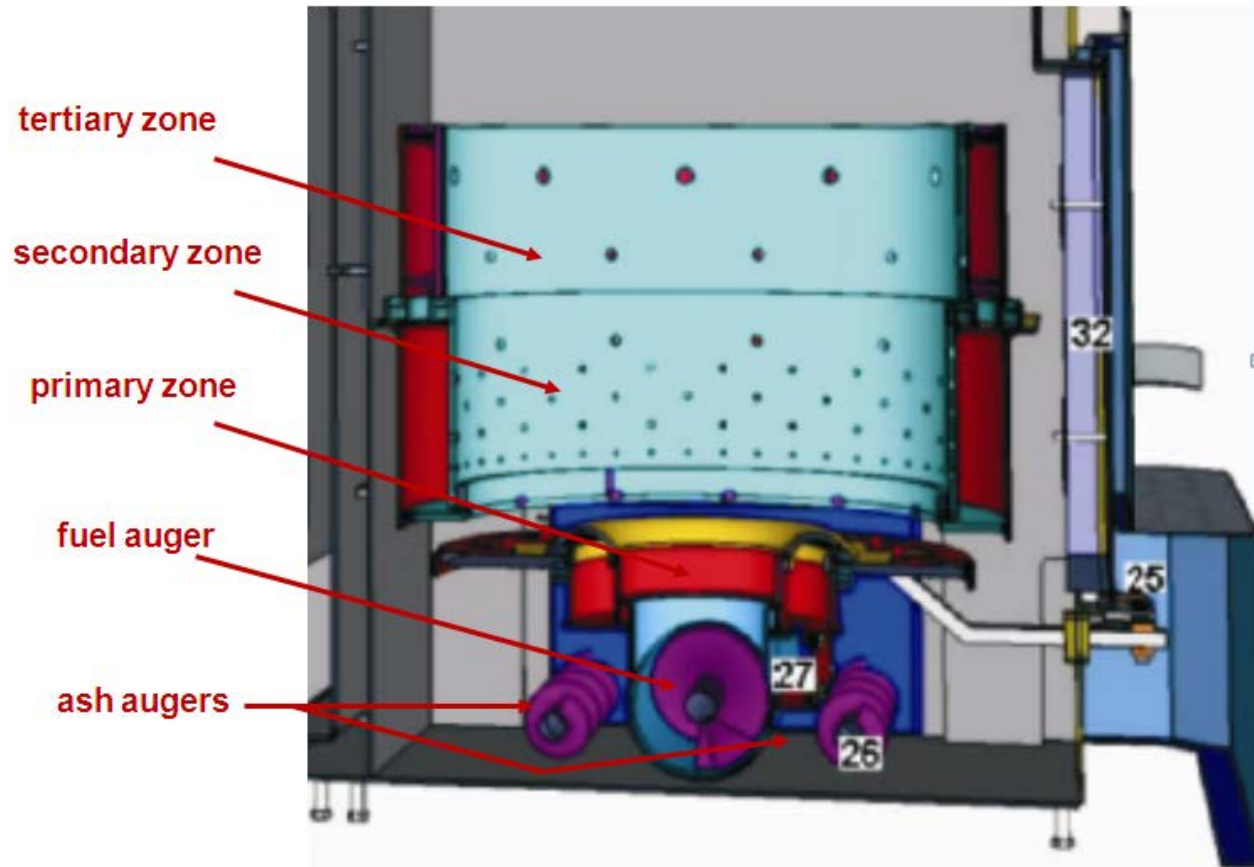








Boiler Fire Chamber



Pellet Fuel Flow Path

Primary air introduction and fuel gasification

Secondary air introduction and combustion of gases

Tertiary air introduction to
completely combust gases

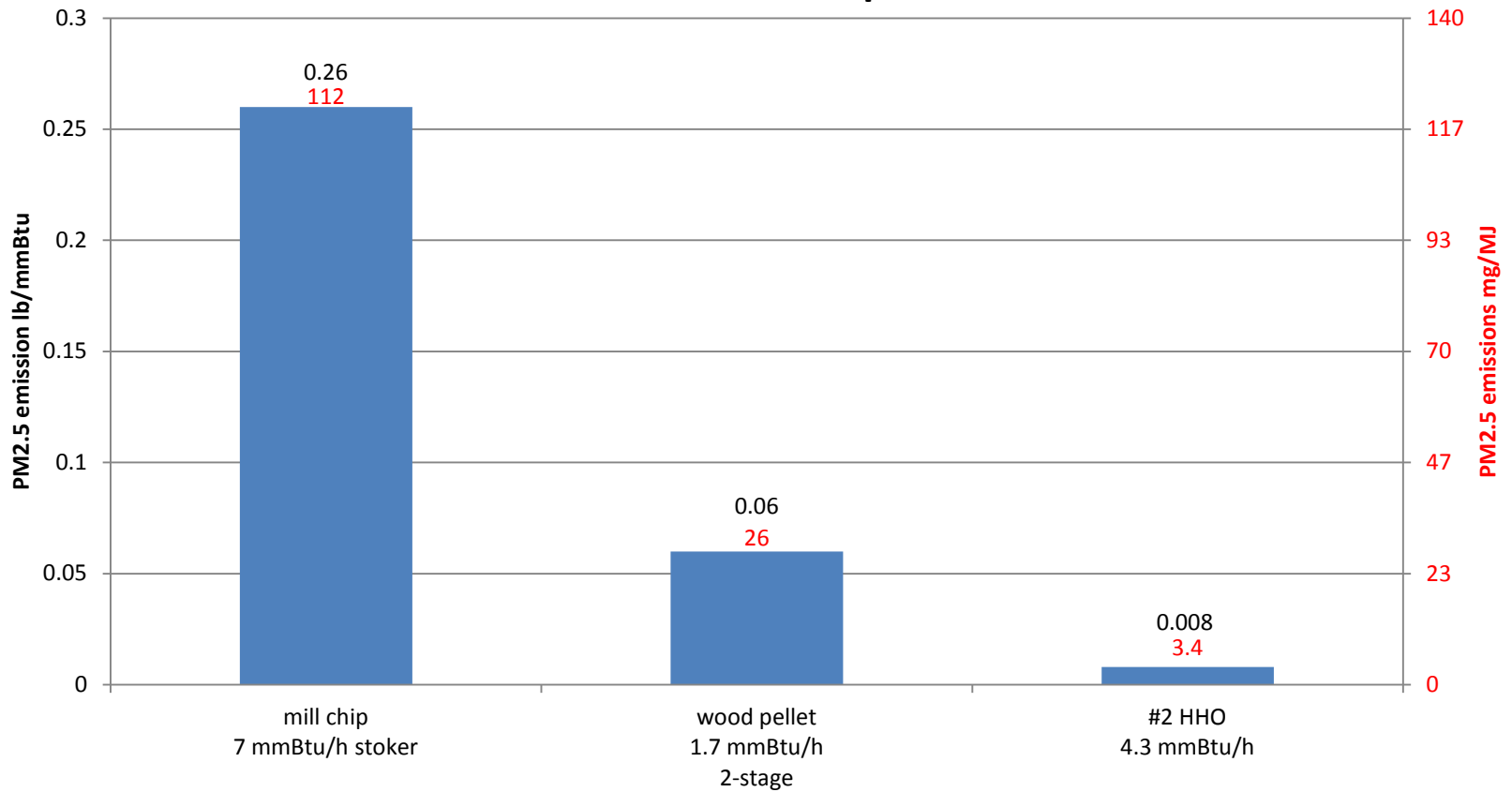
Completed fuel combustion

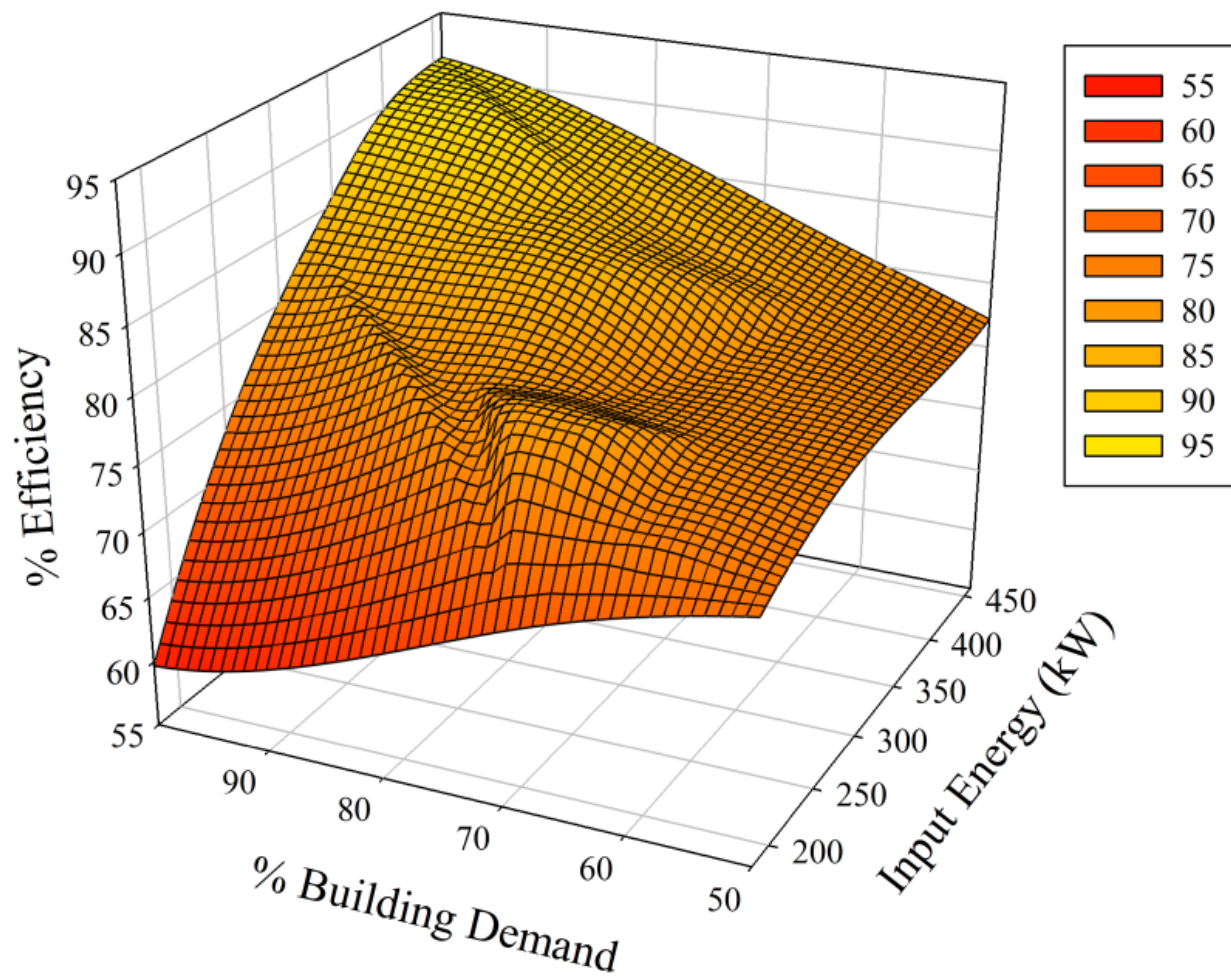
Emissions



Emissions

PM 2.5 Emissions Input Basis





Questions?



MISSION

Ignite an enduring passion for the Adirondacks
where people and nature can thrive together
and set an example for the world



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