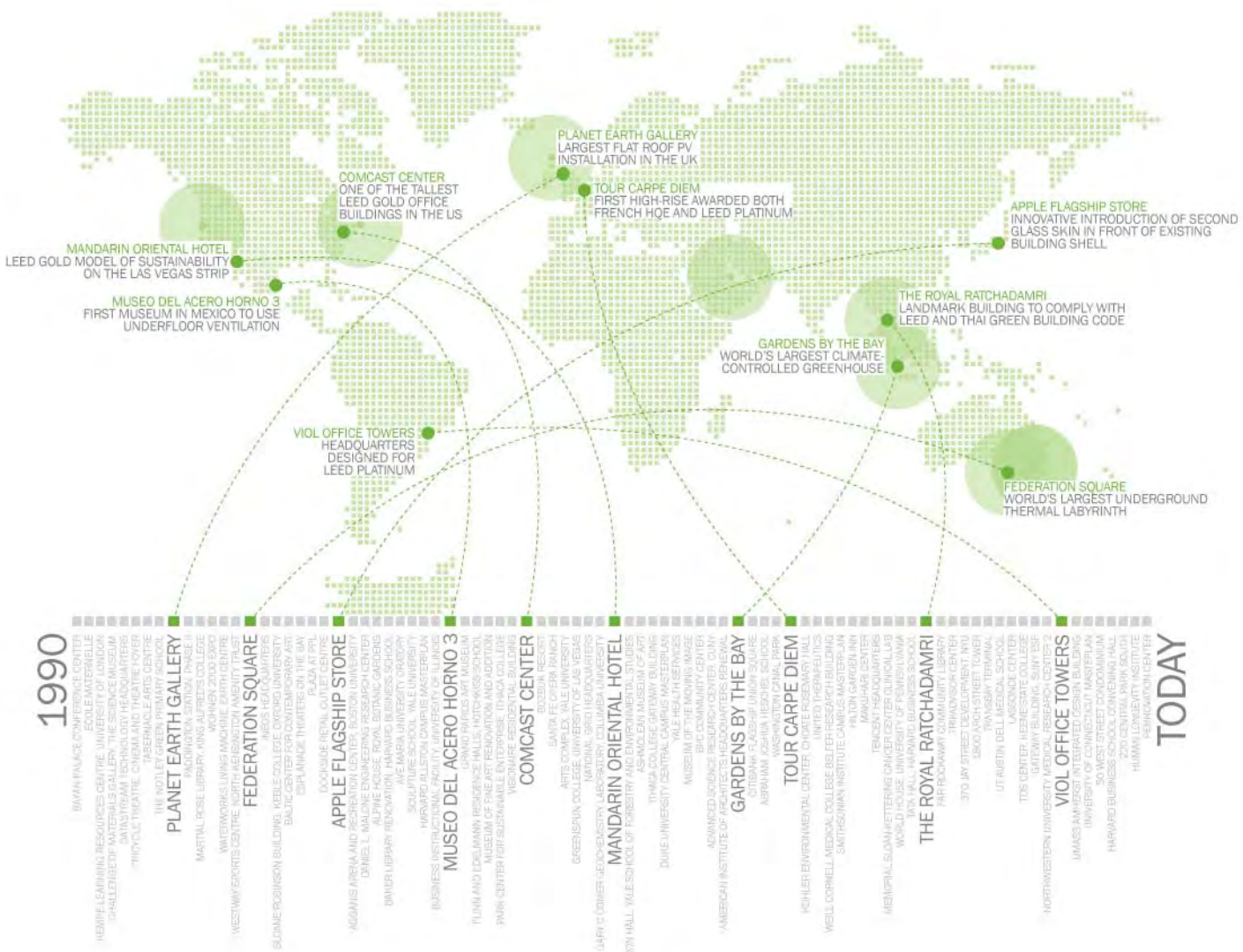
Who We Are



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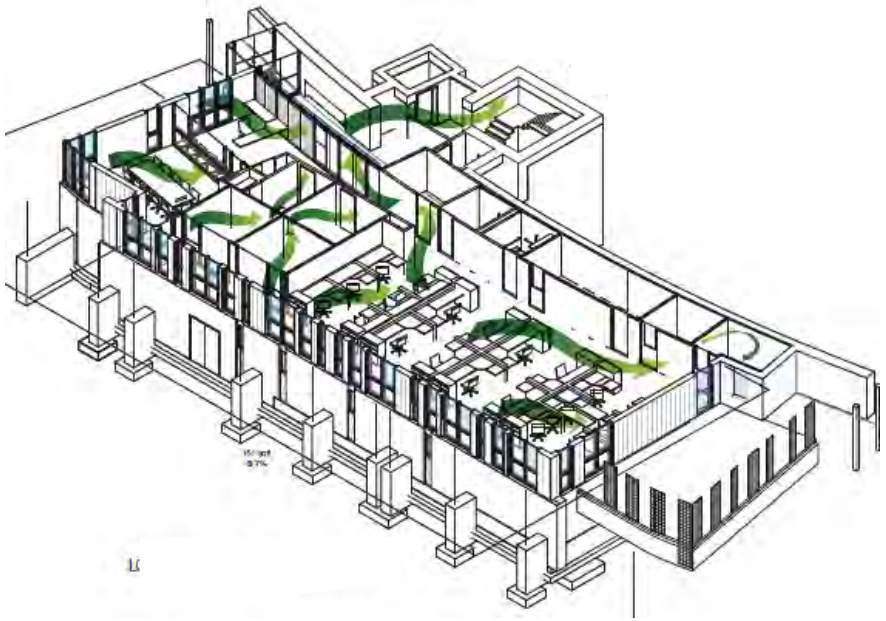
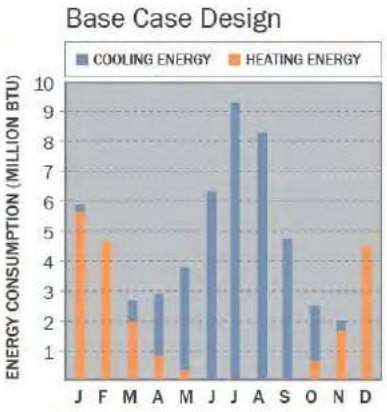
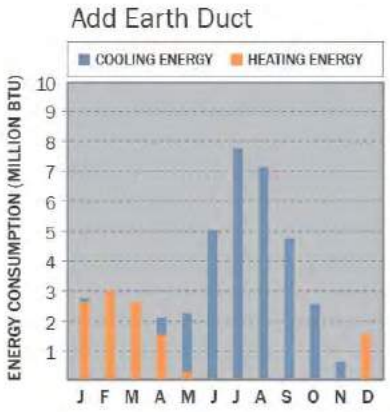
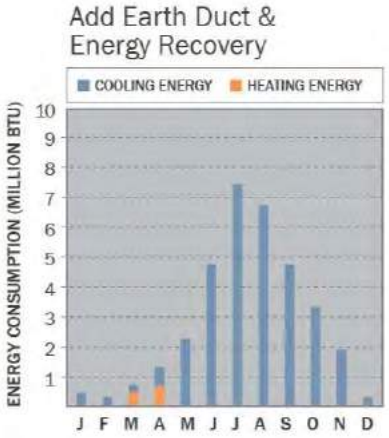
Frick Park Environmental Center









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Class of 1978 Life Sciences Center, Dartmouth College

Bohlin Cywinski Jackson

Through an integrated sustainable design process, the building has achieved an annual energy intensity of 97 kBtu/sq. ft. compared to that of a conventional lab building of 199 kBtu/sq. ft. per year.

LOCATION: HANOVER, NH
AREA: 174,000 SQ FT
COST: $93 M
COMPLETED: 2011

LEED PLATINUM

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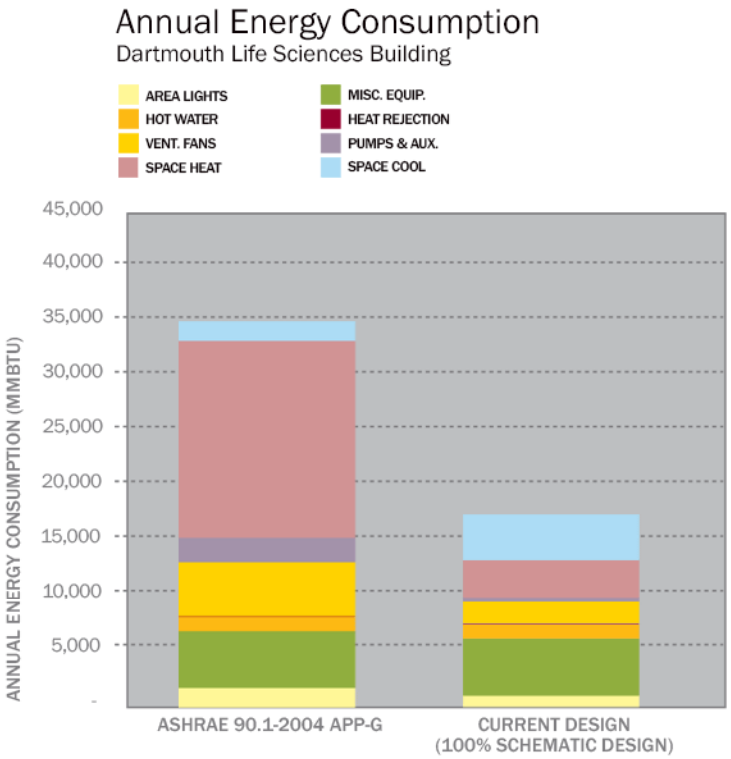
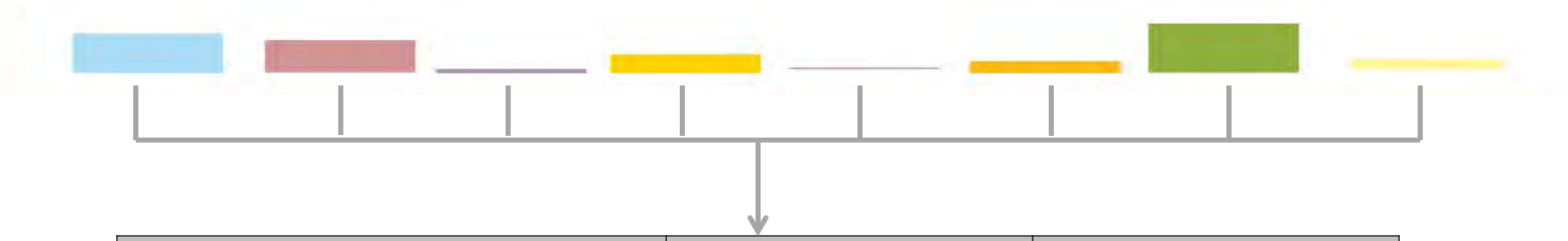
Tracking Energy by End Use



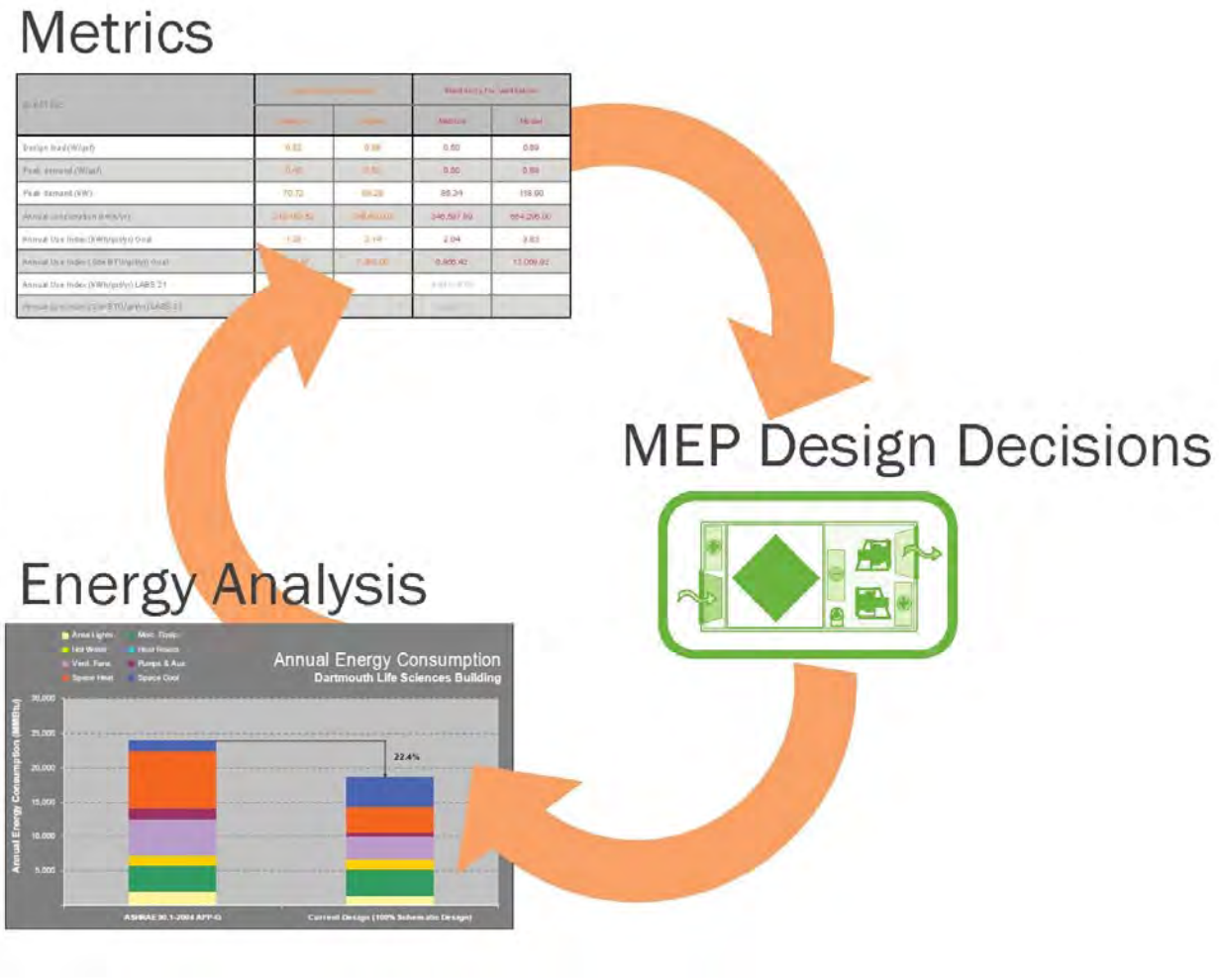
Tracking Energy by End Use

Energy Analysis Data



ELECTRIC	Electricity for lighting		Electricity for ventilation	
	Metrics	Model	Metrics	Model
Design load (W/gsf)	0.52	0.86	0.50	0.69
Peak demand (W/gsf)	0.42	0.52	0.50	0.69
Peak demand (kW)	70.72	88.29	85.34	118.90
Annual consumption (kWh/yr)	218,153.52	365,400.00	346,597.69	654,286.00
Annual Use Index (kWh/gsf/yr) Goal	1.28	2.14	2.04	3.83
Annual Use Index (Site BTU/gsf/yr) Goal	4,378.47	7,300.00	6,956.42	13,069.92
Annual Use Index (kWh/gsf/yr) LABS 21	2.51 to 3.32		4.48 to 6.88	
Annual Use index (Site BTU/gsf/yr) LABS 21	8,564.12		15,285.76	

Progress of Design



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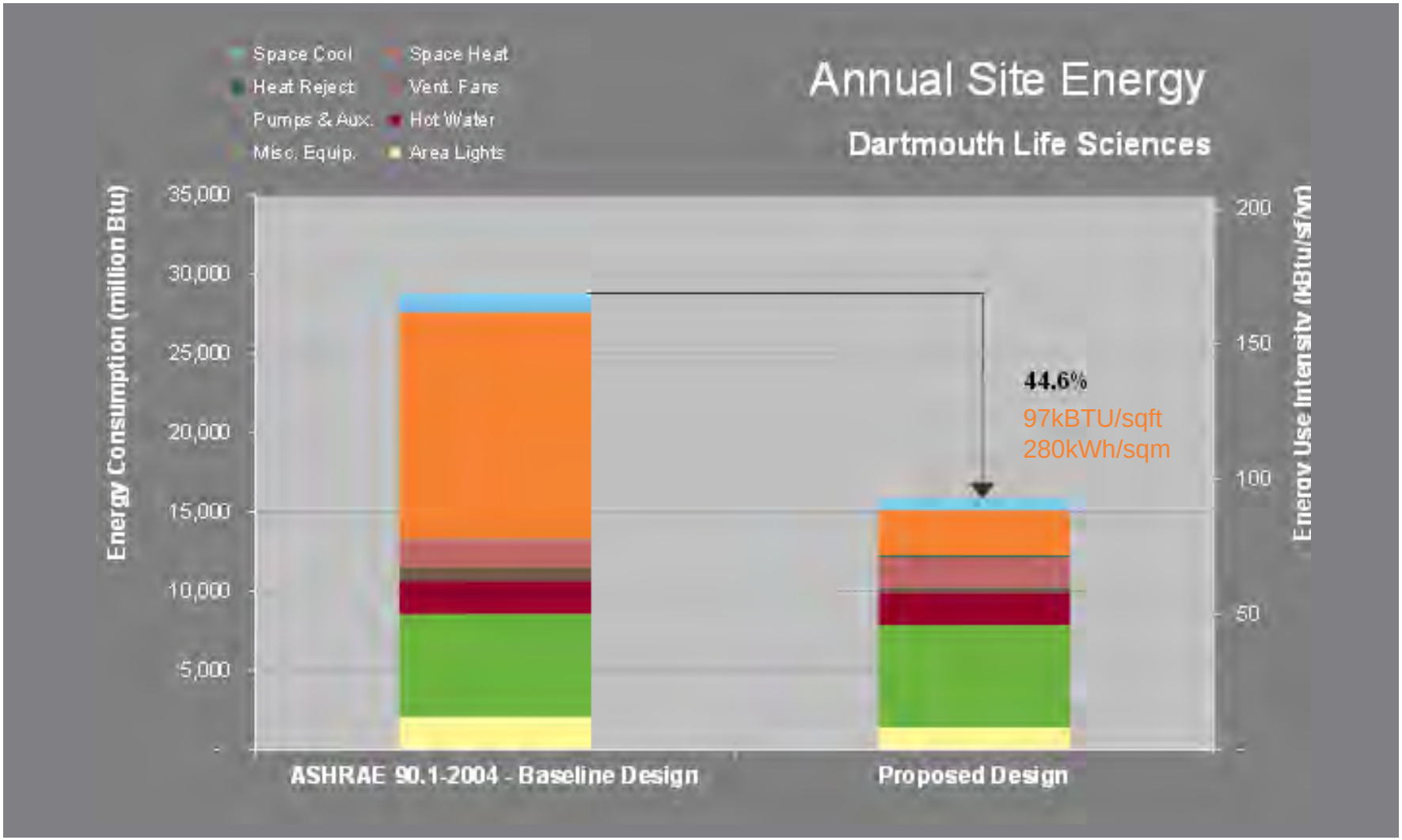
Progress of Design



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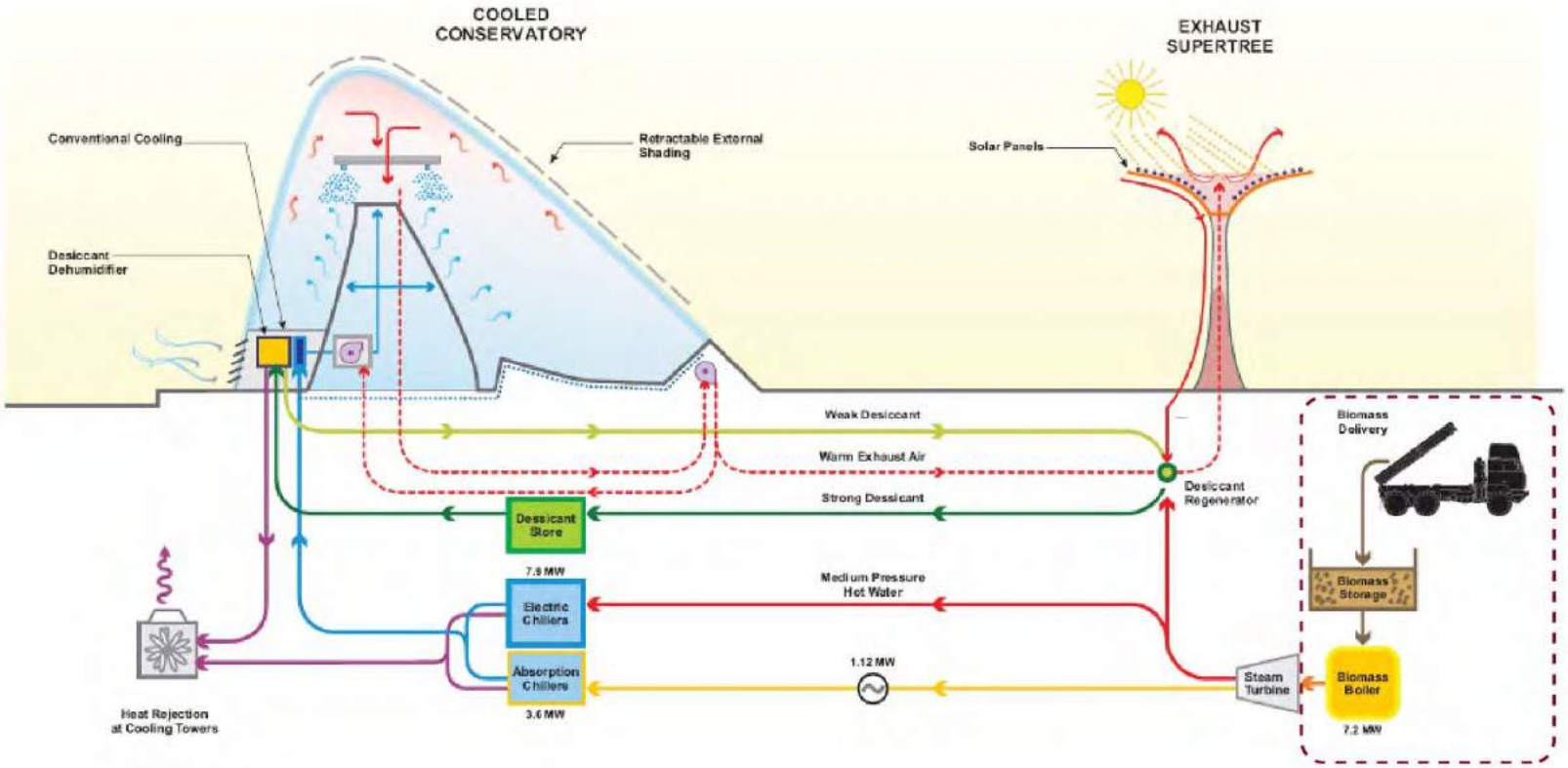
Environmental Concept



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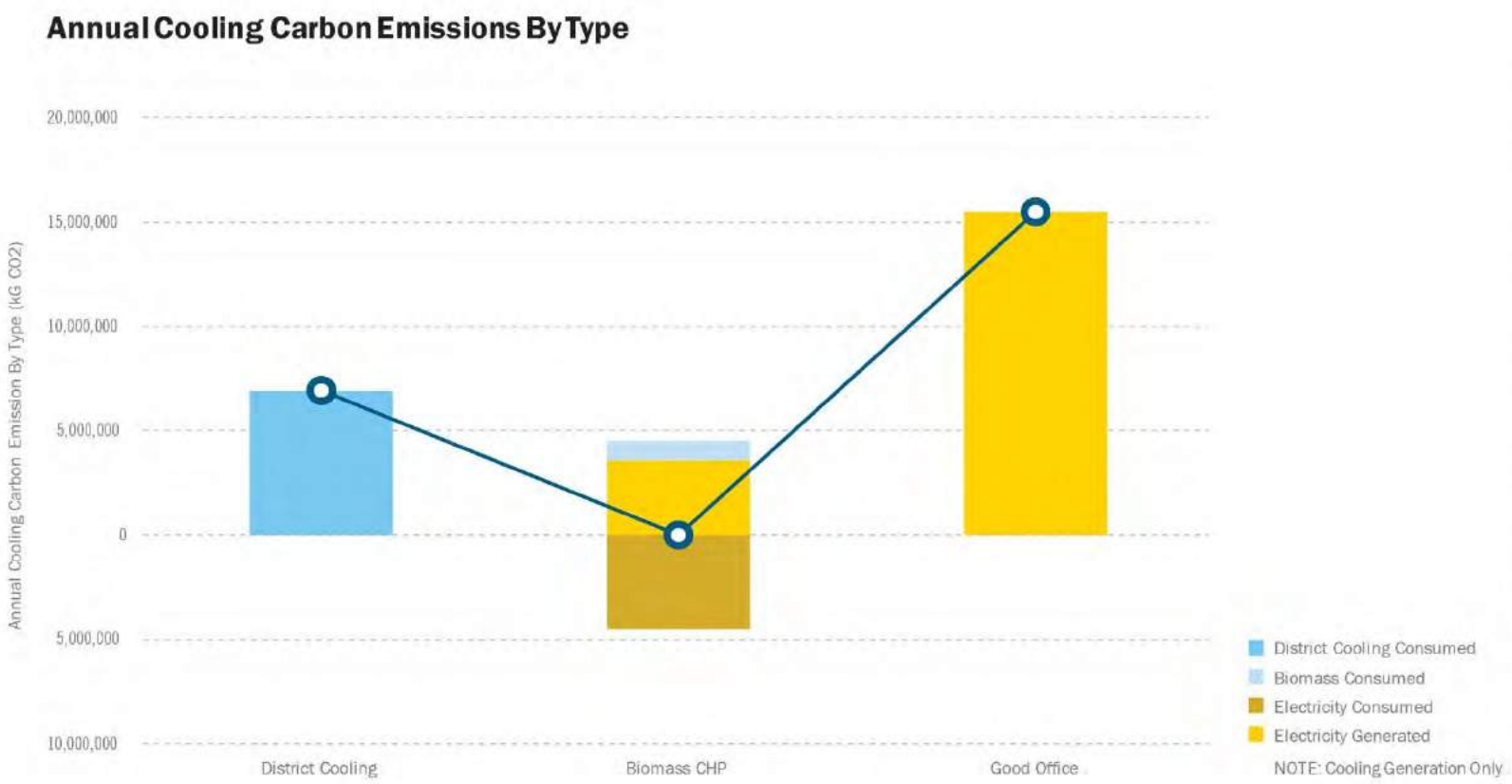
Carbon Footprinting



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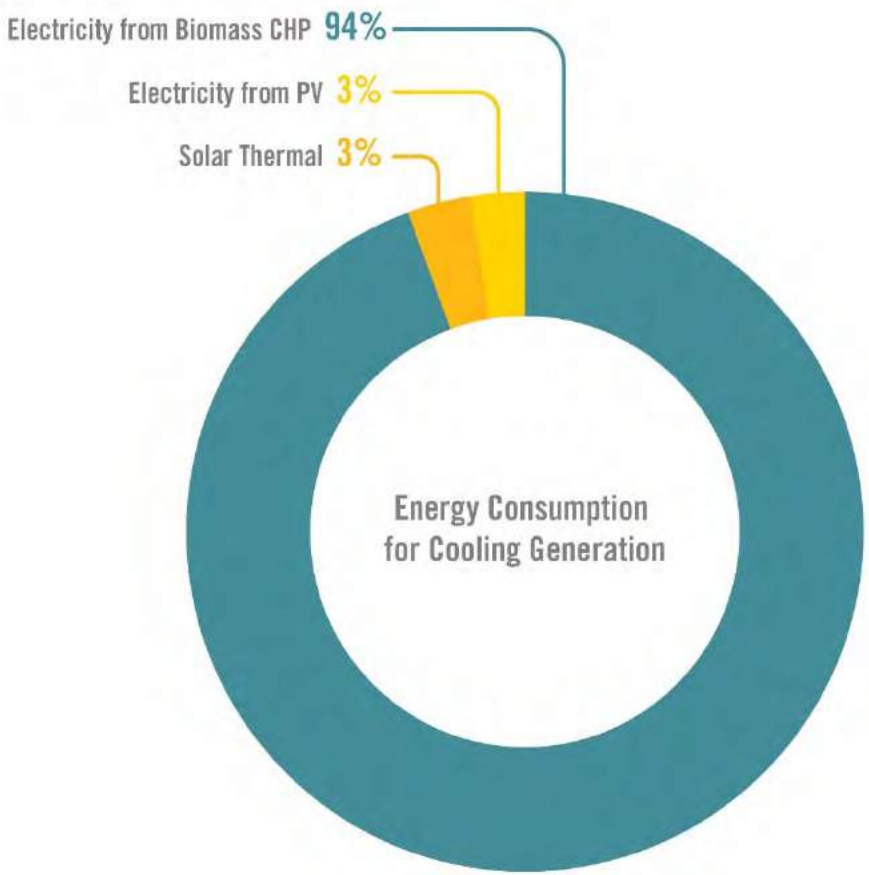
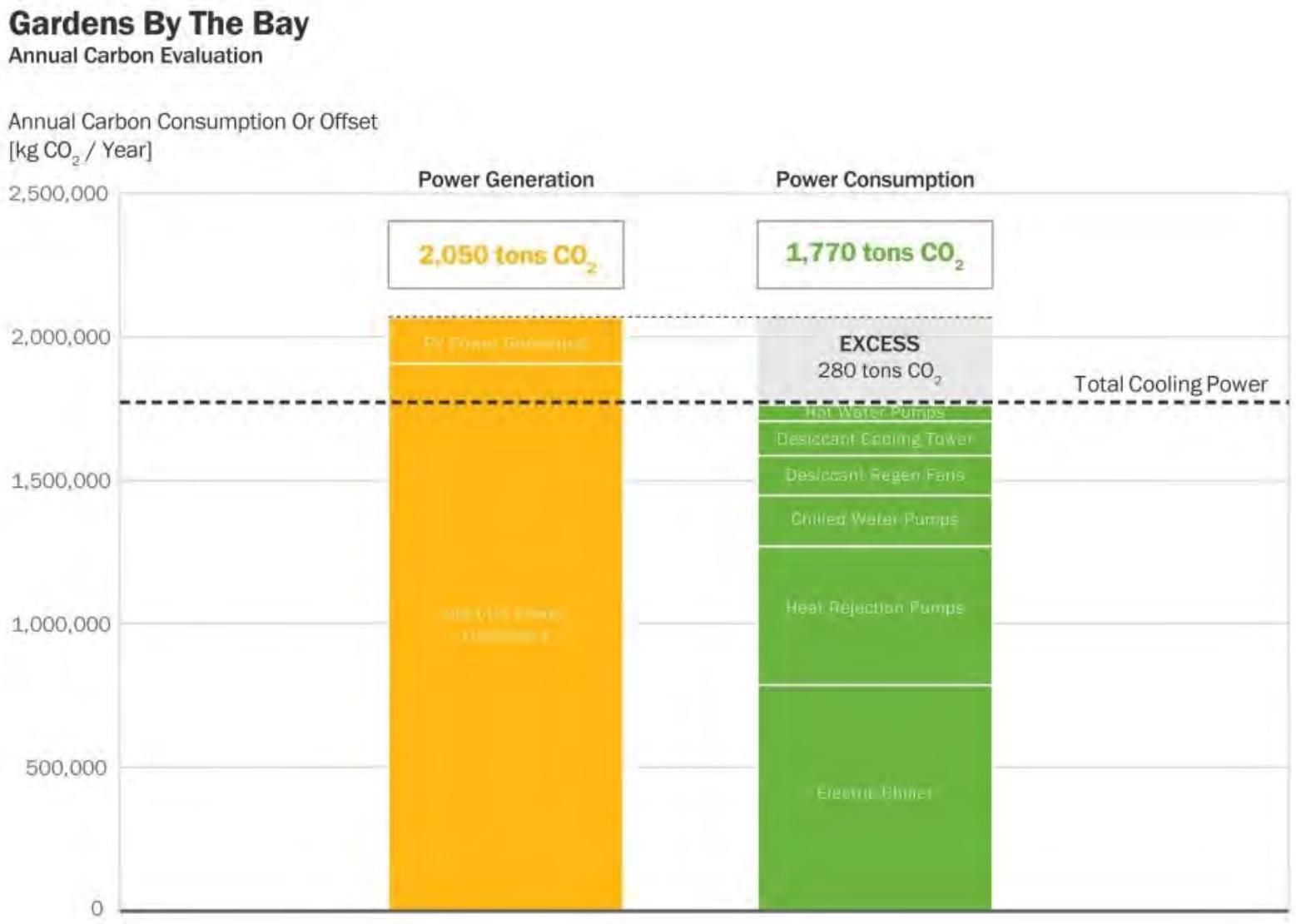
Biomass Energy



Carbon Emissions



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Tufts University Science and Engineering Complex

Payette

- New building attachment to Anderson Hall
- Integrated teaching and research center featuring state-of-the-art laboratories
- The facility will be a model for sustainability standards for mechanical, electrical and plumbing systems
- Anticipated exemplary performance for optimizing exemplary performance

LOCATION: MEDFORD, MASSACHUSETTS
AREA: 70,000 SQ FT (4 STORIES)

LEED NC GOLD TARGET

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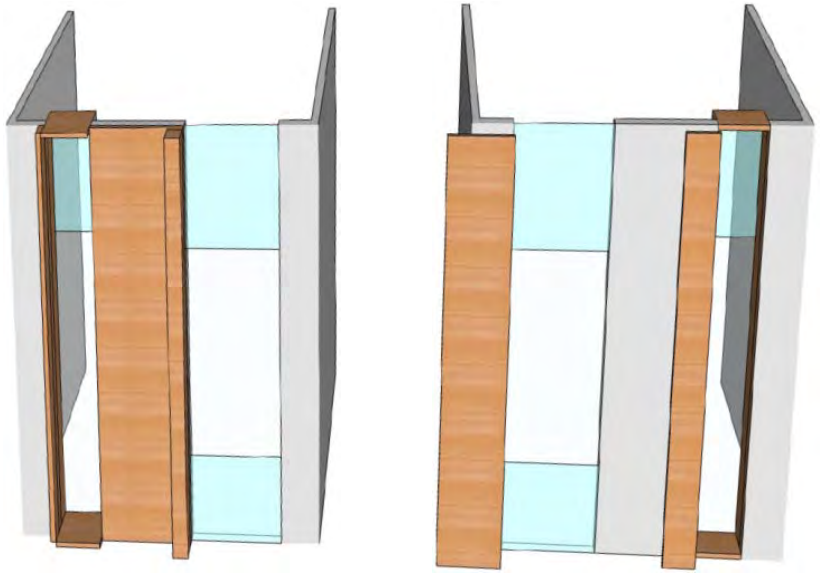
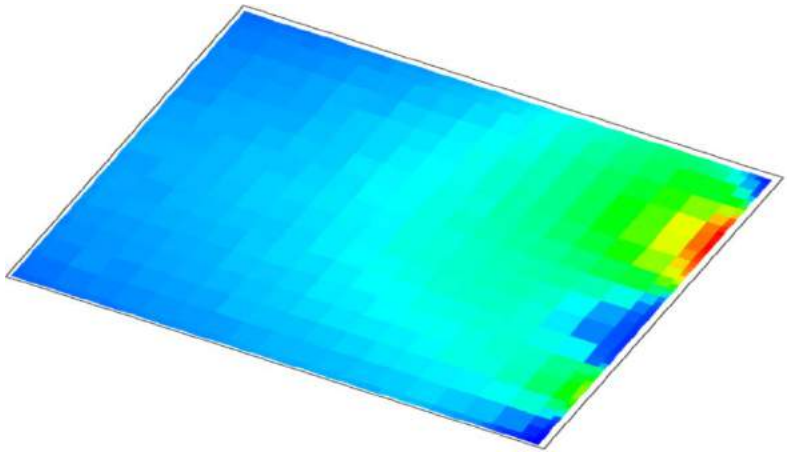
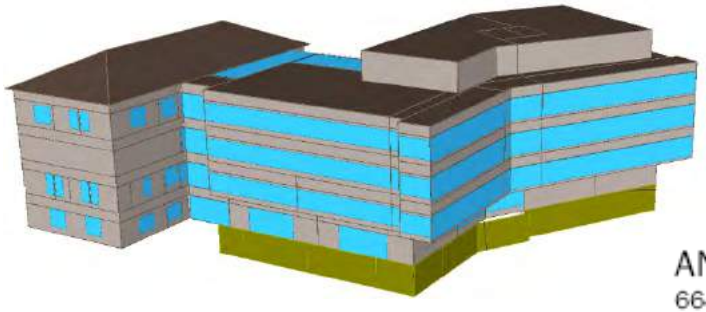
Tufts University Science and Engineering Complex
Schematic Design Daylighting

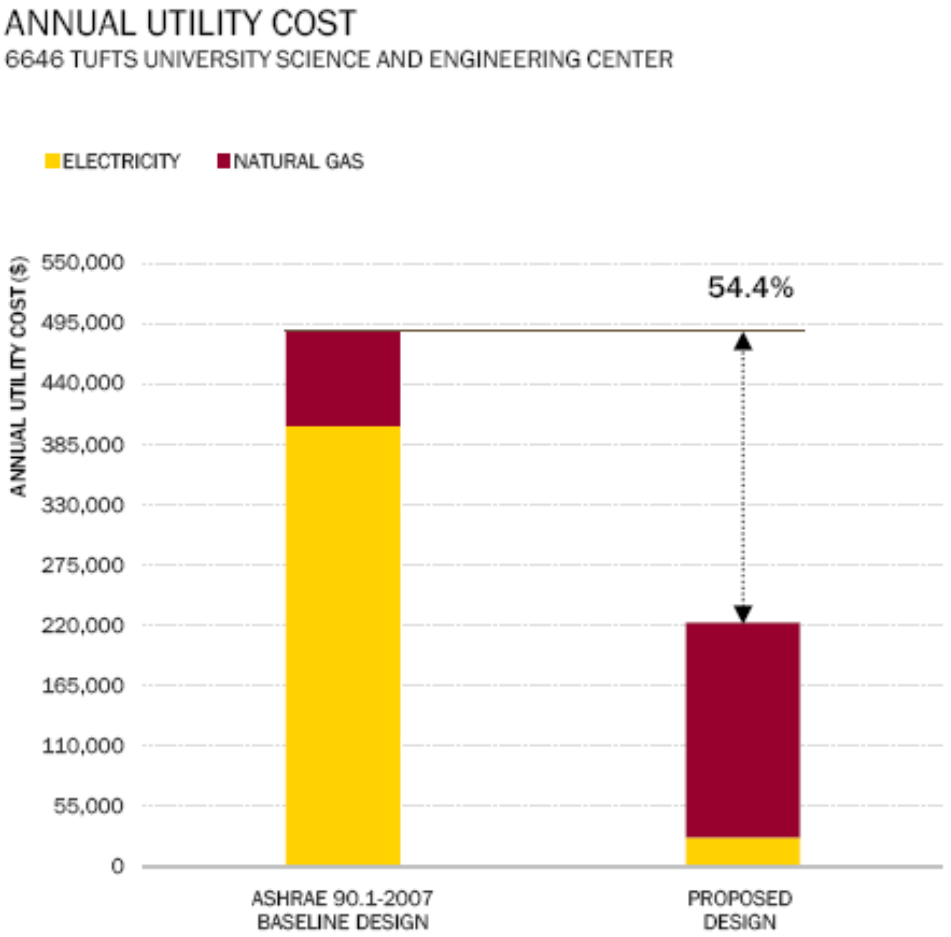


- The target illuminance on the work surface should be 300-400 lux
- Fin and Plank design perform relatively the same with respect to controlling illuminance into the office spaces



Tufts University Science and Engineering Complex





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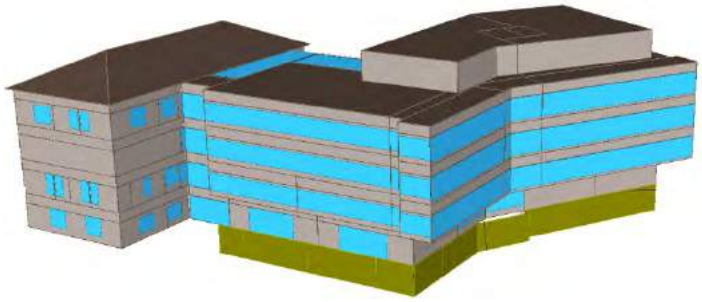
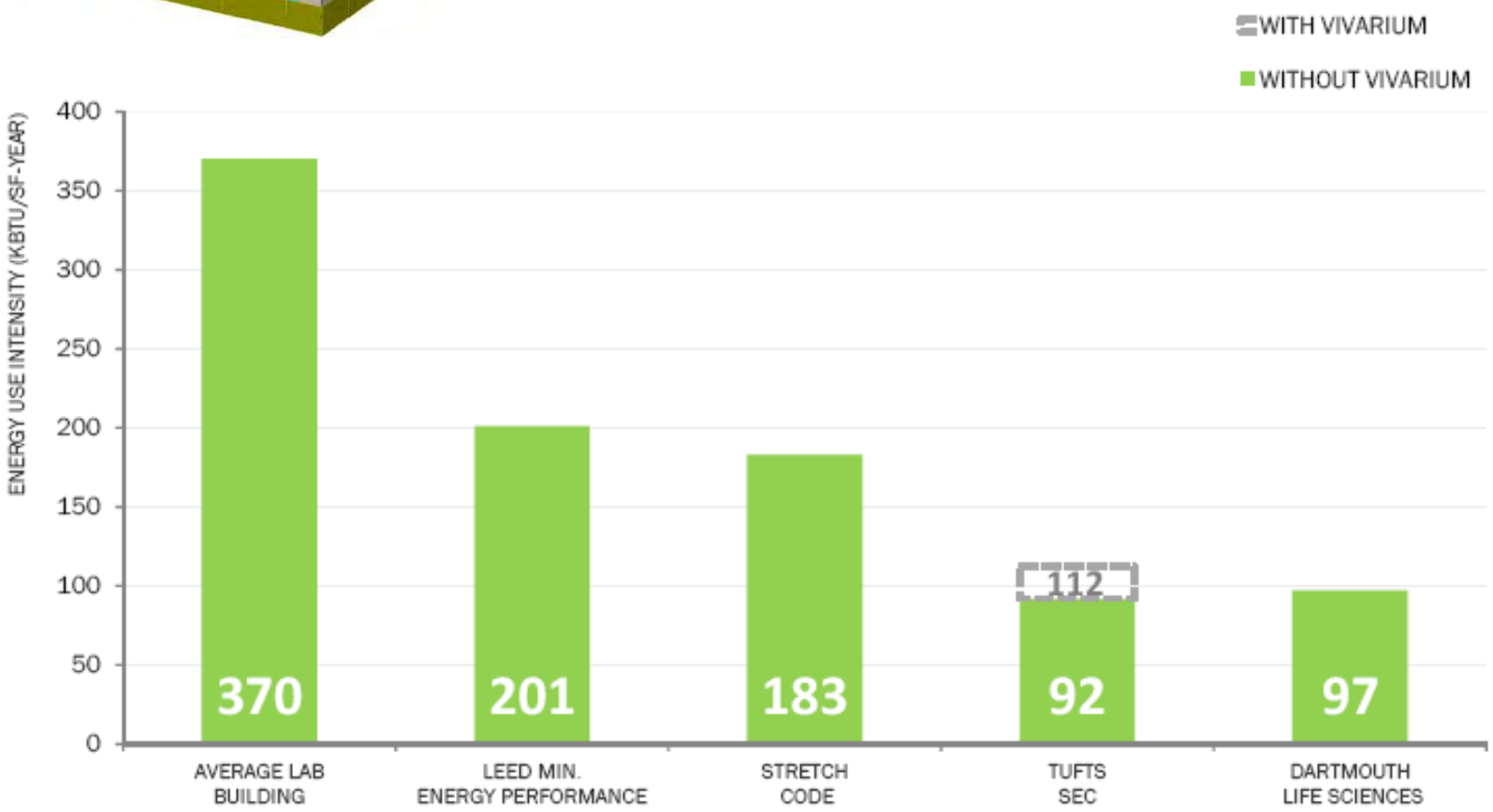
Tufts University Science and Engineering Complex





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