

# Energy Conservation Initiative (ECI) Project Summary

## Reis Tennis Center, Facility 2667

**What We Did:** Installed a new multi-level T-5 fluorescent lighting system using custom direct and indirect light with occupancy sensors. The new lighting system doubled light levels at full brightness, but switching was added to be able to reduce indirect lighting to 50% or off.

**What It Cost:** \$95,000

**How Long It Took:** Three weeks.

**What We Saved:** The project received a \$46,316 rebate from the New York State Research and Development Authority based on expected energy savings of 394,500 kWhr annually. Savings are due to the much higher efficiency and occupancy/schedule based switching. Lights are now “instant” on and off and color quality is significantly im-

proved. The savings in electricity is offset by an expected increase in natural gas use for heating, with the net cost savings expected to exceed \$20,000 annually. The savings will result in a payback of under 3 years for the net project cost after the rebate. Lamp replacements will stretch from 2 years to over 5 years, with much better light output as lamps age.

See energy savings table for details.

176 tons/per year carbon equivalent is saved annually.

We went from the lowest to the highest light levels [among Ivy League NCAA tennis facilities], and expect to reduce energy use by over 50%. Now others are following suit.

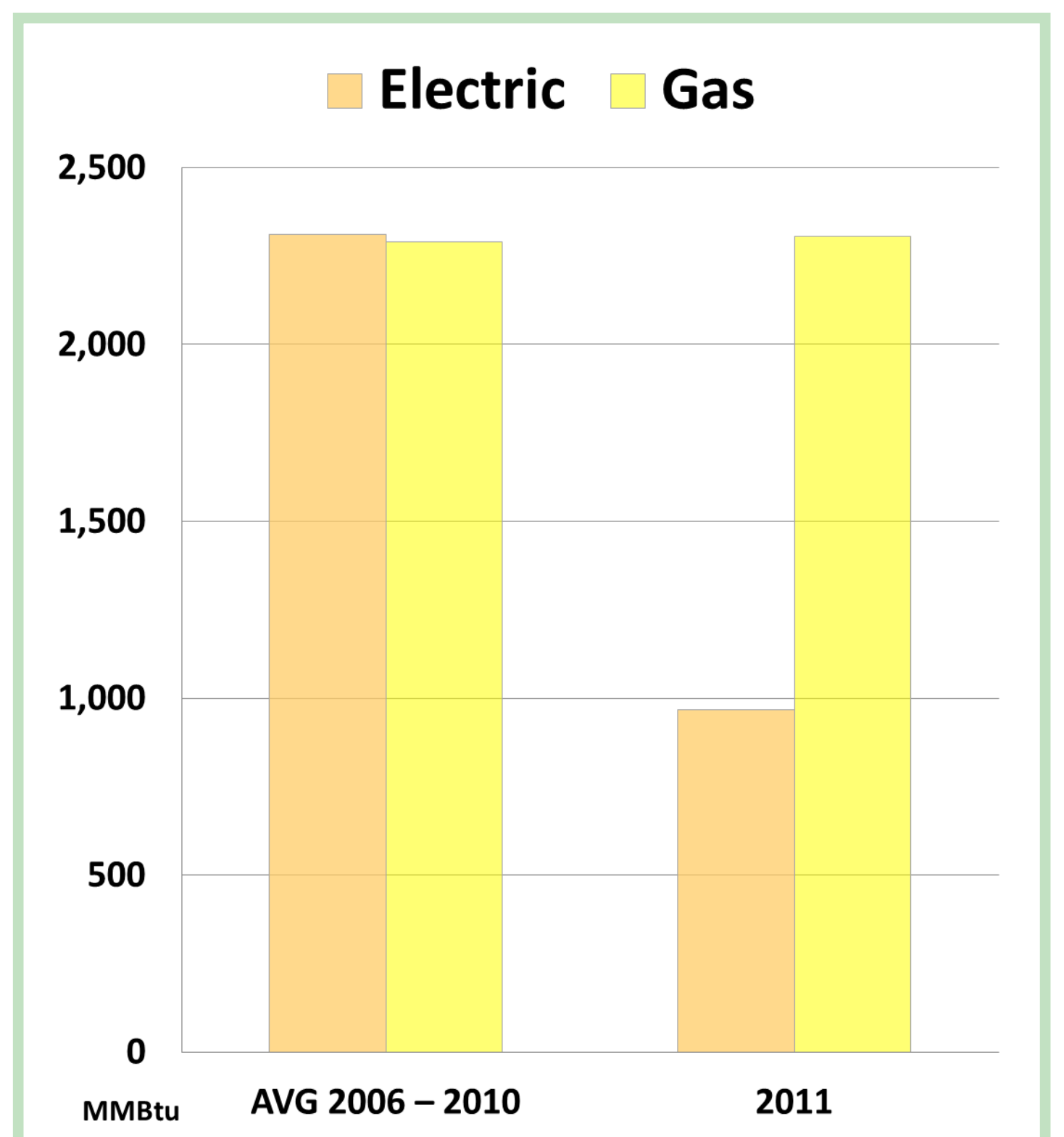
Marty Johnson

### Reis Tennis Center



[Map](#)

### Reis Tennis Center Total Energy Use Pre & Post ECI



## Reis Tennis Center: ECI Savings Table

Utility	Historical Energy Use (MMBtu)	FY 2011 Energy Use (MMBtu)	Energy Savings (MMBtu)	% REDUCTION	Historical Cost (billed rates)	FY 2011 Cost (billed)	Savings \$	Equivalent # Homes
Electric	2,312	968	1,344	58	\$67,750	\$28,250	\$39,500	34
Gas	2,289	2,305	(16)	(1)	\$27,500	\$27,500	(192)	.1
Chilled Water								NA
<b>Totals</b>	4601	3273	1328	<b>29</b>	95,250	55,750	39,500	<b>67</b>

