

# Project Summary:

Project Type: Lighting Retrofit

Location: Baskinridge, NJ

Buildings: 35

Project Size: 40 Acres

Scope of Work: Energy Audit and Assessment

## Fellowship Village

## Phase 1 Lighting Summary:

### Overview:

TVER completed a comprehensive review of the facility and was able to find huge ways to reduce energy usage which saved thousands of dollars. Our leading edge strategies backed by some of the most impressive technologies available today can allow these type of savings to exist.

Monthly Utility reduction: \$2,833.26

ROI Payback: 1.60 years

- Overall combined Cost Savings: **\$787,536.90**
- 5-year Cost Savings: **\$264,754.60**
- 10-year Cost Savings: **\$529,509.20**

Area	#	Existing System	#	Proposed System	Wattage Reduction	Operating Hours/yr	Existing KWH/yr	Proposed KWH/yr	Existing Utility/yr	Proposed Utility/yr	Utility Savings/yr
Read Rm Chand	1	60W Incandescent bulbs	1	9W Edison Base LED bulbs	51	6,570	394	59	\$55.18	\$8.28	<b>\$46.91</b>
CFL Exit Signs	100	2 5W CFL EXIT Signs	100	4W LED EXIT Sign Fixture	8	8,760	10,073	3,504	\$1,410.28	\$490.53	<b>\$919.75</b>
Recessed Cans	660	2 PL 26 Watt (2 Pin)	660	SB30M (Edison Base)	27	7,300	275,574	146,748	\$38,580.43	\$20,544.75	<b>\$18,035.68</b>
Read Rm Floods	53	75W Par 30 Flood Lights	53	13W Par 30 LED	61	5,475	21,762	4,062	\$3,046.67	\$568.71	<b>\$2,477.96</b>
Garage	150	4' T12HO	150	Longevity (T8)	37	2,190	23,651	11,497	\$3,311.10	\$1,609.56	<b>\$1,701.54</b>
Walkway	208	70 (HPS)	208	RL40	29	2,190	31,885	18,675	\$4,463.85	\$2,614.54	<b>\$1,849.31</b>
Bollards	30	100 Watt (HPS)	30	RL40	59	4,380	13,139	5,387	\$1,839.50	\$754.19	<b>\$1,085.30</b>
Street Lights	86	150 Watt (HPS)	86	RL80	70	4,380	56,499	30,133	\$7,909.85	\$4,218.58	<b>\$3,691.26</b>
Pool (24 by 7)	4	250 Watt Metal Halide	4	RL120	175	8,760	10,511	4,380	\$1,471.60	\$613.17	<b>\$858.43</b>
U Fluorescent	72	2x2 (2)UT12 Fluorescent	72	IL7R40	55	2,920	20,182	8,577	\$2,825.47	\$1,200.83	<b>\$1,624.65</b>
Pool (4 by 7)	14	250 Watt Metal Halide	14	RL120	175	1,460	6,132	2,555	\$858.43	\$357.68	<b>\$500.75</b>
Outside Spots	13	150 Watt (HPS)	13	SL60	89	4,380	8,541	3,473	\$1,195.67	\$486.24	<b>\$709.43</b>
Outside Exits	15	70 (HPS)	15	SB30M (Edison Base)	40	4,380	4,599	1,971	\$643.82	\$275.92	<b>\$367.90</b>
Dining Sconces	10	60W Incandescent	10	9 Watt Edison Base LED	51	1,825	1,095	164	\$153.29	\$22.99	<b>\$130.30</b>