

The slide features a white background with abstract green geometric shapes on the left and right sides. The text is centered in a green, sans-serif font.

StarTribune Energy Saving Program

Xcel Energy Process Efficiency

3 Phase Approach

- ▶ Phase 1 - Identify Opportunities
- ▶ Phase 2 - Scope Energy Efficiency Potential
- ▶ Phase 3 - Implement Improvements and Qualify for Rebates

Program Costs/Rebates

- ▶ 25% (maximum of \$7,500) of project costs
- ▶ Includes engineering studies to develop energy-saving opportunities
- ▶ Bonus rebates (Ex: \$2/LED bulb)
- ▶ Star Tribune is near end of phase 2

Internal Lighting Project

- ▶ Replace 5,200 T8 florescent with LED bulbs
- ▶ Did not require ballast change
- ▶ Internal labor: Lead Custodian and Building Engineer
- ▶ Rebate: $\$4/\text{bulb} + \text{bonus } \$2/\text{bulb} = \$31,200$
- ▶ Costs: $5,200 \times \$10.40/\text{bulb} = \$54,080 + \$7,800$ for lamp disposal; Net $\$30,680$
- ▶ Annual energy savings: $\$38,574$

Energy Savings Calculation

5,200 bulbs	5,200
Avg usage of 18 hours X 7 = 126 hrs/wk	126
12.58 watts of savings/bulb	12.58
Average of \$.09 kWh	0.09
kWh/year	428,605
Annual Savings	<u>\$38,574</u>