Project Benefits

- Energy savings 80% of the current electrical load.
- Extend life of HPS & MH lighting.
- Longer maintenance intervals and reduced maintenance cost.
- No mercury being put into landfill due to bulb disposal.
- No toxic chemicals like that found in traditional lighting technologies.
- Better lighting coverage, even distribution, and more visible light.
- Better directional lighting, directionality allows for precision lighting with reduced maintenance costs; Replacement cycle costs are drastically reduced.
- Reduced maintenance costs; Replacement cycle costs are drastically reduced.
- 50-90% energy cost savings.
- No UV radiation produces no ultra violet or infrared light.
- Less pollution: No toxic chemicals like that found in traditional lighting technologies.
- Saves the environment; less waste and disposal hazards.
- Better visibility; White light has better color rendering. A blue car looks blue under an LED street light, not just dark.
- Controllable: Able to set controls at individual light for on/off and dimming.
- Extends the life of the lighting system.
- Lifetime warranty for parts and labor.
- Help the environment with lower electric company emissions.

Project Description

The project is to convert existing facility lighting to energy efficient LED lighting. The existing 175watt Metal Halide and 400watt HPS High Bays will be replaced with 18watt LED linear tubes and 90watt LED Retrofit Kits, respectively. The installation will be performed using Energy Harness lighting products and technologies. The onsite visit and lighting audit provided the Energy Harness engineering team with the data necessary to complete the proposal.

Product Pricing

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Ext. Price</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-Beam High Bay Frame for integrated T8 tubes</td>
<td>12</td>
<td>$22.95</td>
<td>$275.40</td>
</tr>
<tr>
<td>90 watt LED Retrofit Kit</td>
<td>40</td>
<td>$16,185.00</td>
<td>$647,400.00</td>
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<td>30 watt LED Retrofit Kit</td>
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<td>$14,229.00</td>
<td>$569,160.00</td>
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<tr>
<td>18 watt 4' LED T8 linear tubes</td>
<td>83</td>
<td>$65.00</td>
<td>$5,385.00</td>
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<tr>
<td>15 watt 4' LED T5 integrated tubes</td>
<td>12</td>
<td>$45.00</td>
<td>$540.00</td>
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<tr>
<td>18 watt 4' LED T8 integrated tubes</td>
<td>10,140</td>
<td>$2.38</td>
<td>$24,294.00</td>
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<tr>
<td>Replaces - 175watt Metal Halide Wall Packs</td>
<td>142</td>
<td>$103,675.00</td>
<td>$146,550.00</td>
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<tr>
<td>Replaces - 32 watt 4' fluorescent T8's</td>
<td>751,872</td>
<td>$2.37</td>
<td>$1,779,084.00</td>
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</tbody>
</table>

Total Project Cost

- Project Cost: $2,198,254
- Estimated Return on Investment (ROI): **at today's electric cost
- Estimated Maintenance Savings: **at today's electric cost
- Total Savings Over Project Life**: **at today's electric cost
- Total Electric Savings: **at today's electric cost
- Total Yearly Electrical Savings: **at today's electric cost
- CO2 Displacement Savings: **at today's electric cost
- Total Project Cost
- Total Savings
- Estimated Maintenance Savings
- Estimated Return on Investment (ROI)
- Future Electric Expense*
- Current Electric Expense*
- LED replacement usage

Material and Installation

- I-Beam High Bay Frame for integrated T8 tubes
- 15 watt 2' LED T5 double integrated tube
- 18 watt 4' LED T8 integrated tubes
- 15 watt 4' LED T5 integrated tubes
- 18 watt 4' LED T8 linear tubes
- 90 watt LED Retrofit Kit
- 30 watt LED Retrofit Kit
- Replaces - 175watt Metal Halide Wall Packs
- Replaces - 400 watt Metal Halide High Bays

For more information, contact Energy Harness at 1-216-990-0044.