

## CASE STUDY

# Roadtec, Inc

Chattanooga, TN

### Site Description:

Heavy manufacturing shop in over a 500,000 square foot warehouse. Ancillary offices, shipping and receiving.

### Project Needs:

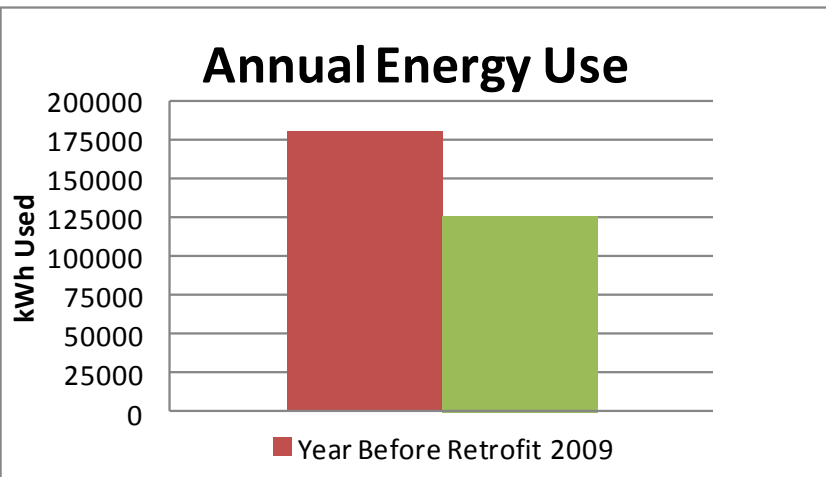
Reduce kWh consumption and costs.

### Project Goals:

12% total reduction in kWh. 48 month return-on-investment.

### Project Results:

19.5% total reduction in kWh. 28.5 month return on investment.



| MONTH        | Year Before Retro-<br>fit 2009 |                  | Year After Retrofit<br>2010 |                  | Energy Reduction |                  | Savings at<br>2011 Avg<br>Rate |
|--------------|--------------------------------|------------------|-----------------------------|------------------|------------------|------------------|--------------------------------|
|              | kW                             | kWh              | kW                          | kWh              | kW               | kWh              |                                |
| Jan          | 1,391.8                        | 586,200.0        | 1,272.0                     | 418,000.0        | 120              | 168,200          | \$15,811                       |
| Feb          | 1,405.4                        | 644,400.0        | 1,180.0                     | 415,200.0        | 225              | 229,200          | \$21,545                       |
| Mar          | 1,349.2                        | 601,800.0        | 1,230.1                     | 443,600.0        | 119              | 158,200          | \$14,871                       |
| April        | 1,397.2                        | 653,000.0        | 1,325.0                     | 422,800.0        | 72               | 230,200          | \$21,639                       |
| May          | 1,395.8                        | 619,000.0        | 1,354.0                     | 482,400.0        | 42               | 136,600          | \$12,840                       |
| June         | 1,479.8                        | 659,800.0        | 1,354.4                     | 482,400.0        | 125              | 177,400          | \$16,676                       |
| July         | 1,510.2                        | 659,400.0        | 1,357.2                     | 498,200.0        | 153              | 161,200          | \$15,153                       |
| Aug          | 1,548.4                        | 640,600.0        | 1,298.4                     | 418,200.0        | 250              | 222,400          | \$20,906                       |
| Sept         | 1,412.4                        | 558,800.0        | 1,147.2                     | 391,800.0        | 265              | 167,000          | \$15,698                       |
| Oct          | 1,352.2                        | 471,400.0        | 1,147.2                     | 391,800.0        | 205              | 79,600           | \$7,482                        |
| Nov          | 1,347.4                        | 330,400.0        | 1,192.2                     | 446,600.0        | 155              | -116,200         | -\$10,923                      |
| Dec          | 1,413.4                        | 320,200.0        | 1,257.8                     | 475,800.0        | 156              | -155,600         | -\$14,626                      |
| <b>Total</b> | <b>1,548</b>                   | <b>6,745,000</b> | <b>1,357</b>                | <b>5,286,800</b> | <b>265</b>       | <b>1,458,200</b> | <b>\$137,071</b>               |

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