



COOPERTIRES®

Enhanced Energy Reduce at Cooper Tires



Cooper Tire Tupelo Lighting Project





Manufacturing Facilities

- \\ World Wide:

Cooper Tire and Rubber Company Findlay, OH
Cooper Tire and Rubber Company Texarkana, AR
Cooper Tire and Rubber Company Melksham, England
Cooper Tire and Rubber Company El Salto, Mexico

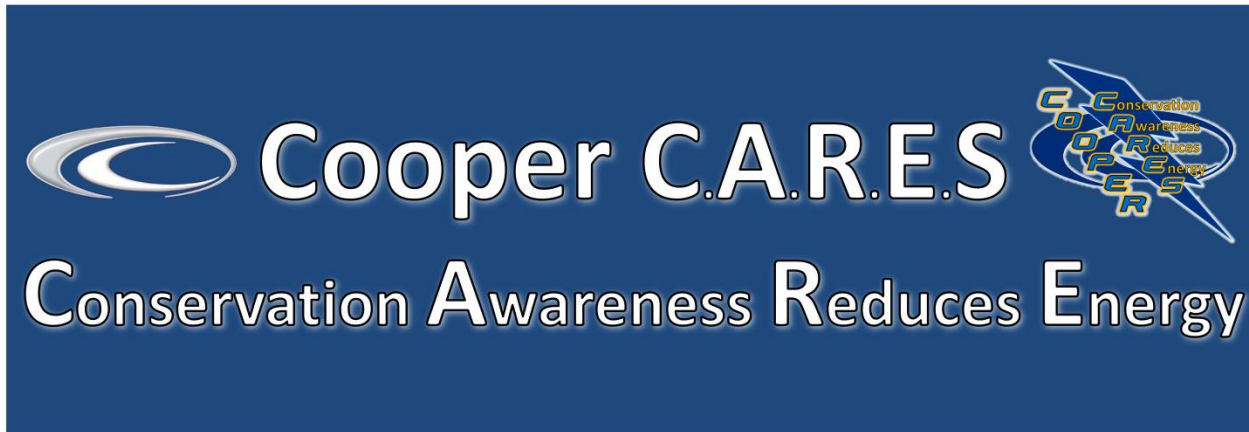
Cooper Tire and Rubber Company Clarksdale, MS
Cooper Tire and Rubber Company Tupelo, MS
Cooper Tire and Rubber Company Krusevac, Serbia
Cooper Tire and Rubber Company Kunshan, China

History Tupelo Plant

- Original manufacturing plant: Pennsylvania Tire
- Cooper Tire purchased in 1984
- Started production in 1985
- Passenger vehicle tire manufacture
- Presently employing : 1,800
- Current Sq.Ft. under roof: 1,718,206 sq.ft
- *Currently adding for expansion(Auto-Compounding 14,000 sq.ft.)*

Energy Slogan

Cooper asked its employees to submit ideas for an energy slogan.



A panel selected the winner.



Promoting Tire Safety



The Cooper Tire & Rubber Foundation, the philanthropic arm of Cooper Tire, has created a new program - "Tread Wisely" - to promote driver and tire safety among teens and young adults. Cooper is teaming up with the National Organizations for Youth Safety (NOYS) on this program.

Sustainability



RESPONSIBILITY THE COOPER WAY

2015 CORPORATE SOCIAL RESPONSIBILITY AND SUSTAINABILITY REPORT

The most recent report showing Cooper's sustainability efforts can be found linked on the Cooper Tire website

http://coopertire.com/CooperTireCorporate2015/media/Media/sustainability-report/CSR_SustainabilityReport_2015.pdf

5-Year achievements include:

- Energy intensity reduced by 17%
- GHG Emissions reduced by 16%
- Water use reduced by 6%
- Landfill use reduced by 30%
- Experimenting with alternate sources of rubber
- Developed a fuel efficient tire that improved efficiency by 5.5%
- Safety-TRIR improvement of 30%



- **PLANT PRODUCTION LIGHTING**

HUBBELL FIXTURES

- PREVIOUS PLANT LIGHTING WAS THE HUBBELL 400 WATT FIXTURE USING APPROXIMATELY 460 INPUT WATTS TO GET 60 FC ON THE WORKING SURFACE. COST PER YEAR TO RUN APPROX. \$236/YR PER FIXTURE



HOLOPHANE 320

ALSO USED WAS THE HOLOPHANE 320 WATTS
FIXTURE APPROXIMATELY 380 WATTS INPUT TO THE
FIXTURE. \$183 ANNUAL COST PER FIXTURE



IMPROVE AND REDUCE



SUSTAINIBILTY

SUSTAINIBILTY

Reducing your carbon footprint



Sustain a Green Environment



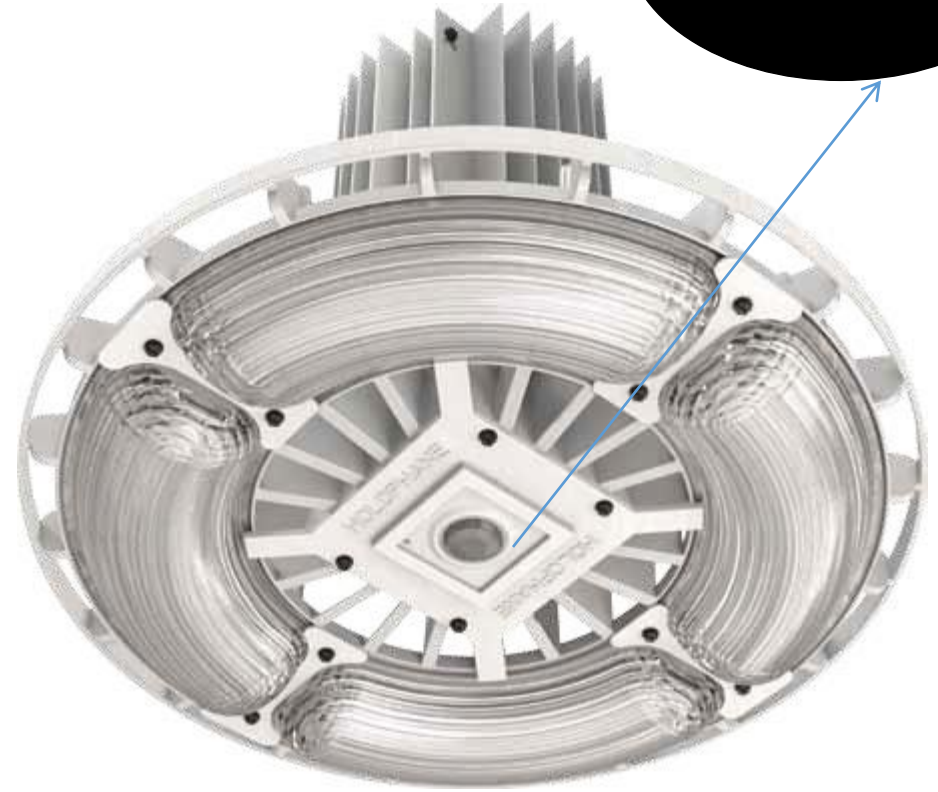
Reduction of CO2

- Amount of CO2 reduced 802,065. pounds at a reduction of 270 watts, this is going from 460 watt fixture to a 190 fixture annually
- For this project there was a total of 375 on this project
- The plant total number of fixtures is 4265 fixture
- Total reduction of CO2 for the plant was 3,420,807,225 billion metric ton of CO2 reduced.

HOLOPHANE PHUZION LED

- THE NEW CORPORATE LIGHT IS THE HOLOPHANE PHUZION LED INPUT WATTS ARE 190 AND IT PRODUCES APPROXIMATELY 72 TO 84 FC ON THE WORKING SURFACE. THIS HELPS IN SAFETY, HOUSEKEEPING AND QUALITY WHILE REDUCING ENERGY COST BY **41%** PER FIXTURE. COST TO RUN IS APPROX. **\$97/YR.** THIS A **59%** SAVING OVER THE EXIST HUBBELL FIXTURES.
- THE PLANT BEGAN ITS LIGHTING IMPROVEMENTS IN THE CONDITIONED SPACES, THEN MOVED ON UNTIL THE ENTIRE PLANT WAS UPGRADED. THE STANDARD FOR THE CORPORATE LIGHTING WAS SET HERE AT TUPELO PLANT.
- SOME OF THE FIXTURES ARE EQUIPPED WITH A MOTION SENSOR TO HELP ACHIEVE EVEN GREATER SAVINGS, THESE ARE LOCATED IN STORAGE AREAS WHERE THERE IS VERY LITTLE TRAFFIC OR MOVEMENT.

Holophane Phuzion Fixture



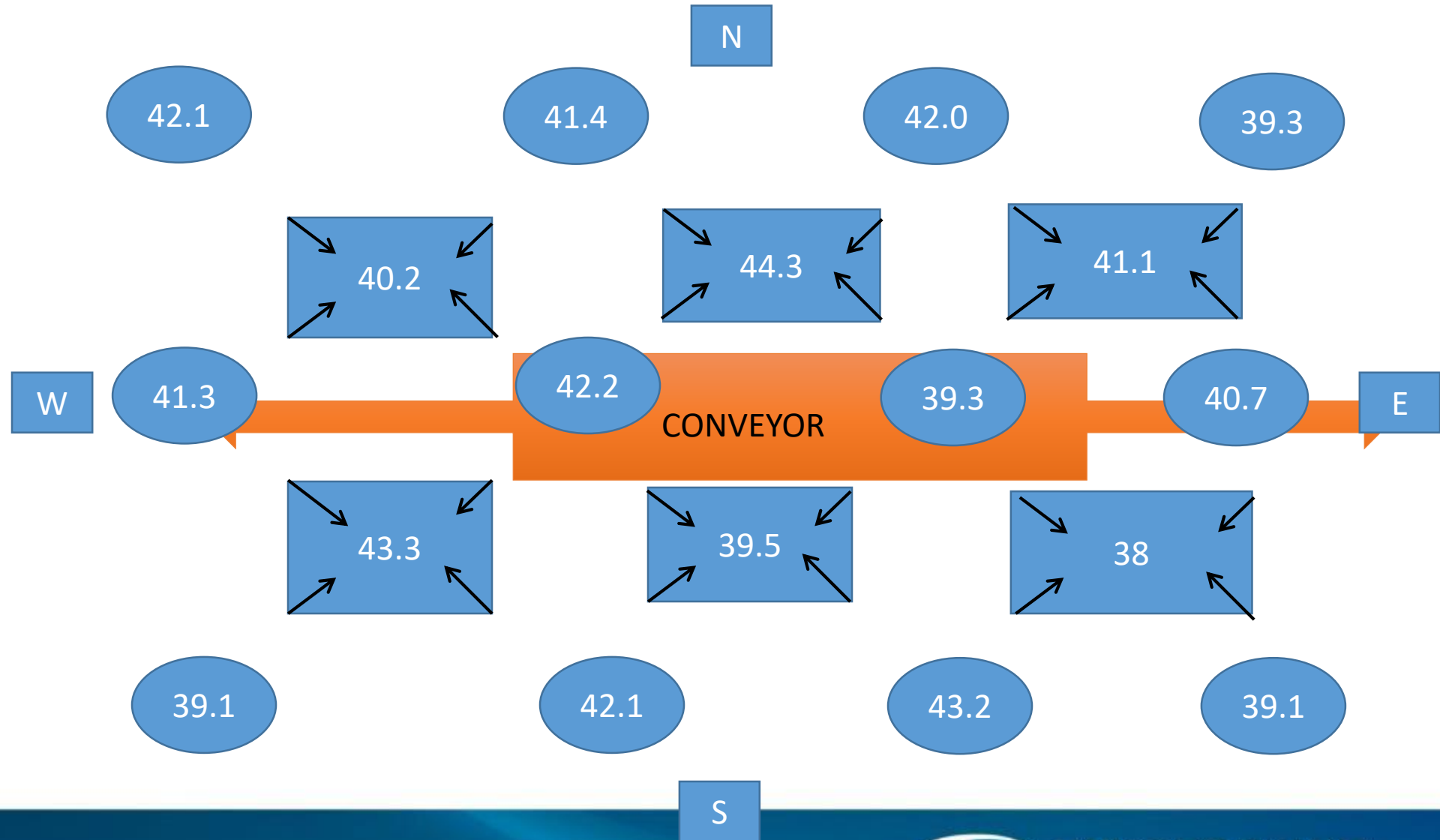
Photocell for
greater
Savings



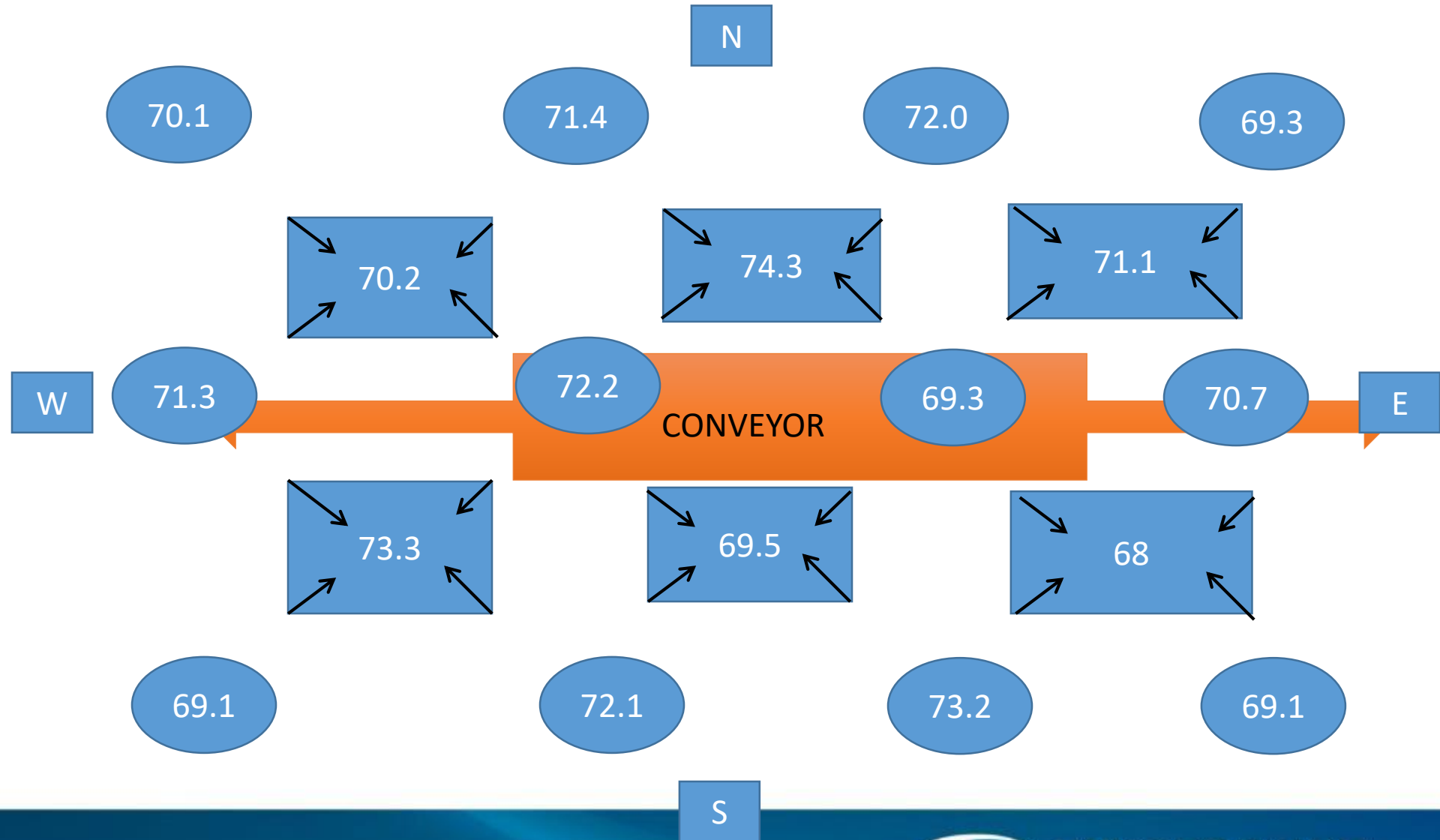
VMI MAXX ROOM LIGHTING



VMI MAXX ROOM(before)

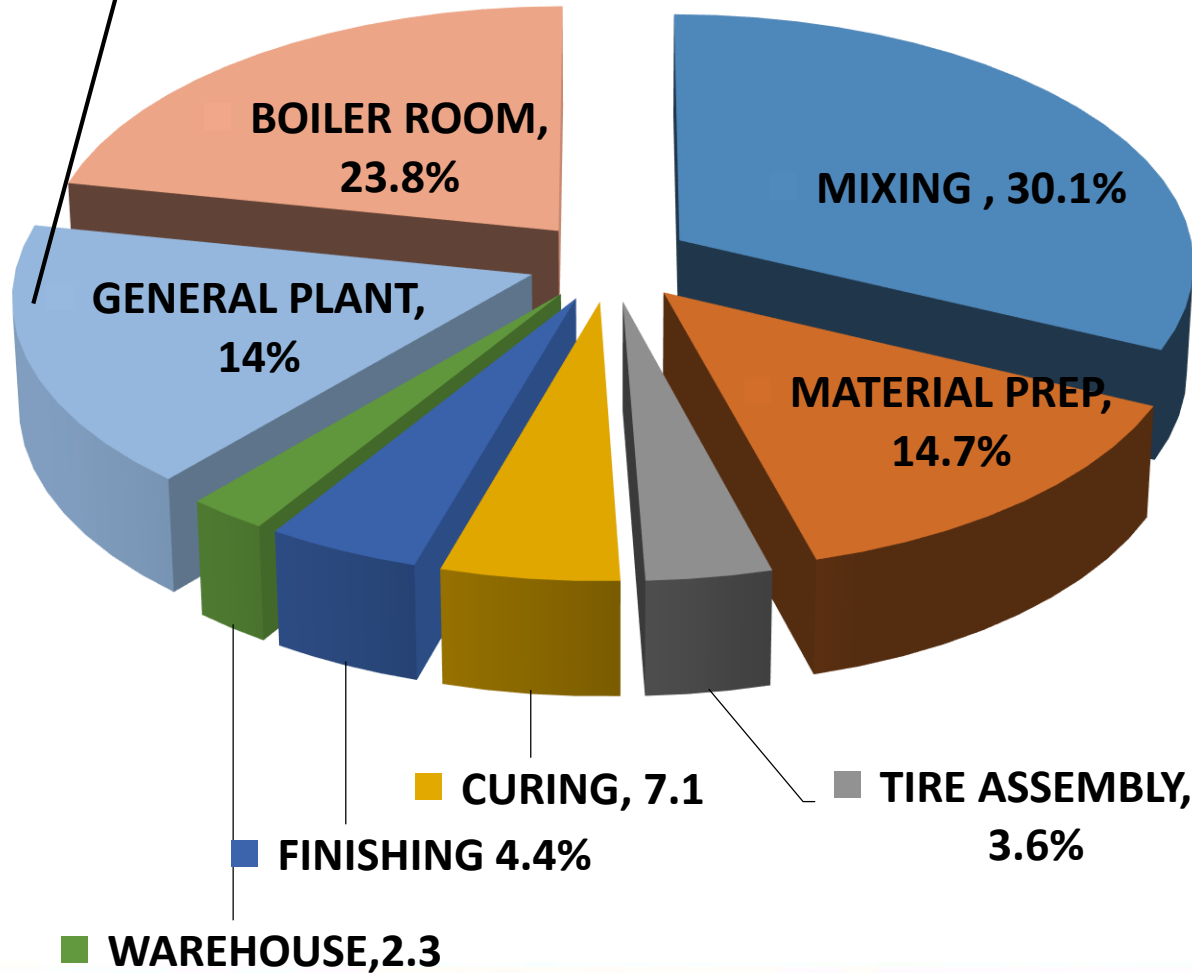


VMI MAXX ROOM(after)



PLANT ELECTRICAL

Plant lighting ,(over a megawatt of energy)



- MIXING
- MATERIAL PREP
- TIRE ASSEMBLY
- CURING
- FINISHING
- WAREHOUSE
- GENERAL PLANT
- BOILER ROOM

Incentive Program



Cooper Tire Warehouse

Submission #: -

Project #: -

Preliminary Assessment - In-work

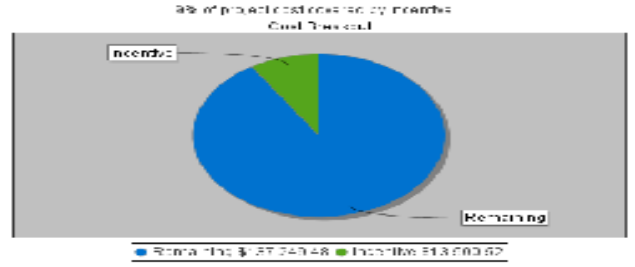
Summary

Incentive: \$13500.52 TVA Incentived Savings: 225008.700 kWh	Number of Rooms: 1 Number of Measures: 1 Number of Existing Fixtures: 375 Number of Proposed Fixtures: 375
Project Cost: \$150750.00 Incentive: \$13500.52 Reductions: \$0.00 Remaining Cost: \$137249.48	Project Rate: \$0.00/kW \$0.063/kWh Annual kWh Savings: 501291.000 Annual Utility Bill Savings: \$31581.33 Simple Payback without Incentive: 4.8 yrs Simple Payback with Incentives: 4.3 yrs

In-work

Project Costs

Project Cost	\$150750.00
Incentive	\$13500.52
Reductions	-\$0.00
Remaining Cost	-\$137249.48

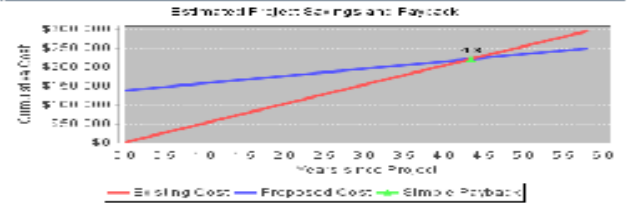


Incentive Calculations

Incentive:	\$13500.52
Simple Payback without incentive:	4.8 yrs
Simple Payback with incentive:	4.3 yrs

Estimated Usage

	Original	Pre Asmt	Savings	TVA Savings
kWh	131,625	49,875	\$7,125	\$1,750
kWh	02,124,820	26,339,200	24,214,380	225,008.700
Utility Bill	\$70,942.54	\$13,267.51	\$31,581.33	\$1,350.00



Submitted Date:
 User Name:
 Approved Date:
 User Name:

Famous Quote

“ THERE ARE ENDLESS OPPORTUNITIES, WE SET UP OUR OWN BOUNDARIES, WHICH SHOULD BE ENDLESS”



PRESIDENT RONALD REAGAN

Energy Thought

Energy Saved Here ... Equals Security For Here

