



Saving Energy and Reducing Emissions Worldwide



CASE STUDY NO. 02

INCREASED TUBE LIFE BY 300%



Patented Radiant Tube Insert (RTI)



Installation & Tuning



Tuning & Troubleshooting

HOW WE HELPED A TUBE MANUFACTURER INCREASE PRODUCTION BY 11% ON 4% LESS GAS AND IMPROVE TUBE LIFE 300%

01 APPLICATION

- Carbon steel DOM and welded tube
- 38 recuperated trident tubes – roller hearth furnace

02 PROBLEM

- Poor tube life due to pancaking, blowout, and cracking
- Limited line speeds due to available heat in zones 1 and 2

03 OBJECTIVE

- Increase tube life
- Increase line speed

04 SOLUTION

- PSENERGY installed RTIs in all tubes of zone 1 and zone 2
- PSENERGY balanced and tuned all 38 tubes

05 RESULT

- 300% increase in tube life
- 11% production increase
- 4.3% reduced gas usage

**LET'S
TALK**

**814.504.2326 or
Team@PSENERGY.com**

COMBUSTION SYSTEM EXPERTISE

- *Tuning & Troubleshooting*
- *Radiant Tube Inserts (RTI)*
- *Training*
- *Monitoring & Alerting*
- *Consulting*

OUR MISSION

PSENERGY's team of engineers works hard to increase our customer's global competitiveness by increasing productivity and reducing emissions with affordable, highly technical product and service solutions. Our customer centric, data driven approach establishes long-term partnerships with our customers on their way to realizing improved bottom line performance.

Want to learn more about how PSENERGY can increase your output? Our friendly and knowledgeable team of combustion system experts are standing by—call today!



PSENERGY, LLC

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