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AMERICAN SOCIETY OF BAKING
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TABLE TOP #89

Commercial/Industrial Bakeries **Volume1, January-April 2013**

In This Issue

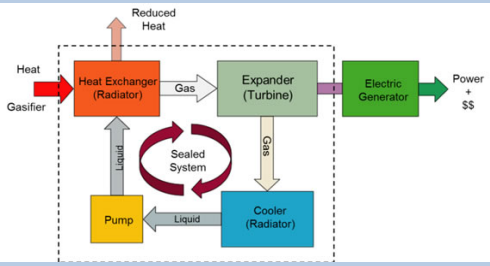
Link Category Title

Oven/Oxidizer Heat Recovery

http://www.airmanagement.com/oxidizer

Organic Rankine Cycle

http://en.wikipedia.org/wiki/Organic_Rankine_Cycle



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Services:

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- ***Mechanical Insulation***
- ***Energy Management***
- ***Waste Heat Management***
- ***Microturbines***
- ***Dehumidification***
- ***Fermentation Environmental Control***

Generating Electricity from Waste Heat!

I'm sure most of us have looked at the heat plume from our ovens/oxidizers stacks and thought what a waste of energy and have accepted that its part of the process and a necessary evil. It doesn't have to be that way anymore and by implementing proven heat recovery solutions designed for the baking industry by **Air Management Technologies** that waste heat can be converted into a revenue stream providing both **thermal** and **electric** resources.

Sustainable Energy Solutions "Green Technologies" are here to stay and many customers are requiring Industry accountability for environmental initiatives, as their consumers demand the same. Combine this with the renewed talk about the carbon credit initiatives requires a new thought process on how return on investment is defined. Simply put it's the right thing to do and we have a responsibility to be good stewards for future generations? Our company is dedicated to providing sustainable energy solutions that exceed expectations and are introducing our **Second Generation of Oven/Oxidizer Waste Heat Recovery Solutions**. What is different in the second generation is the ability to increase the amount of waste energy captured even further and now have the potential not only to satisfy **thermal loads** in the facility but additional capacity can now be used to **generate electricity!** Yes that is correct, the heat coming out of your stack can be used to create electricity with investment costs comparable to wind technologies, and only at a fraction of solar costs with many states offering grants and utility rebates for implementing this technology.

Solar and wind technologies have received much of the attention for good reason since they can be applied in almost any facility and environment with the basic requirement being to have "sun and wind". For those that have explored this technology even with tax incentives and rebates the return on investment (ROI) is normally long-term, meanwhile Commercial Bakeries have the unique opportunity to implement oven and oxidizer waste heat recovery that provides a sustainable solution available whenever the oven is operating and not having to be concerned if the wind is blowing or sun is shining with typical returns ranging from immediate with new plants, to 4-8 years in retrofit situations.

Oven & Oxidizer waste heat recovery designs in the past considered two key components, which includes the amount of energy available "generation" as well as the amount of heat that can be used "distribution" for thermal loads and many times especially during summer generation exceeded thermal demands and was discharged into the atmosphere. Our second generation eliminates this waste by converting any additional heat not used for thermal loads to electricity with a balance to ensure an optimized cost to benefit ratio.

In many cases boilers and auxiliary heating equipment can be eliminated from the facility providing capital cost avoidance. Other options include micro-turbine electric generation that can produce electricity at a lower cost than the utility and provide backup power.