



SUCCESSFUL COGENERATION AT ADAMS ROCKFORD

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ADAMS PRODUCTS

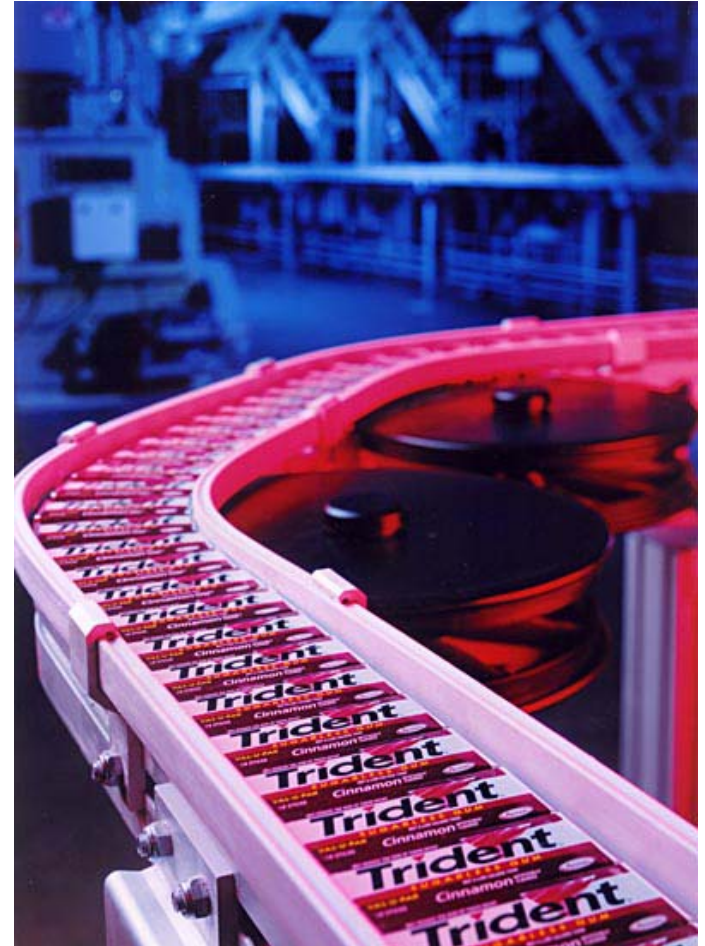
- Adams produces Trident, Dentyne, Bubblicious, and Chicklets





ADAMS VOLUME

- The production volume is 150,000,000 display boxes per year



ADAMS BUILDING

- The plant is 450,000 sq. ft. of mostly temperature and humidity controlled space



TURBINE / GENERATOR

- Installed in 1994
- Driven by a Solar Taurus gas turbine
- Producing 4.8 megawatts of electricity
- Recovering 22 kpph steam from waste heat





COGENERATION ECONOMICS

- **Four-year payback**
- **Operation is 24hrs/day,
5 days/week**
- **Gas Price \$0.285/Therm**



ELEMENTS OF A SUCCESSFUL COGENERATION PROJECT

- **System must operate at or near full capacity 24hrs/day year round**
- **Must use all recovered steam**
- **Cost of fuel / 10**
 - **Gas = \$0.35/Therm**
 - **Cost = \$0.035/kwh**



COGENERATION OBSTICALS

- **Cost of Fuel**
- **Gas pressure**
- **EPA or noise restrictions**



CONCLUSION

- **Not recommended for every business, must be a perfect fit**
- **Cogeneration is feasible for Adams**
- **Enhanced reliability and quality of electric power**