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Heat Recovery

What California industries have large volumes of ultra-low (1,600Âº F) waste heat? Ultra-low temperature waste heat is produced in large volumes by the food production industry.

What research is needed on advanced technologies or materials (including coatings) for recovering waste heat cost effectively in ultra-low heat or ultra-high temperatures? Chemical energy storage of low temperature thermal energy. Basically, if an industrial plant could capture its waste heat with a transportable (high energy density) storage media and be used later (e.g. in the winter) for space heating, that would make a MASSIVE impact.

Should research focus primarily on the ultra-low or ultra-high temperature waste heat or, if not, what other temperature ranges? Ultra low temp

What are the cost and technical targets that must to be met to drive customer adoption (such as minimum rate of return or minimum percent heat recovery)? Needs to be a sub 5 year payback against $5/mmbtu gas and $0.10/kwh electric.