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Increasing Energy Efficiency and Reducing CO2 Emissions

Good day California Energy Commission

We may be blessed to live in the most desired part of America, but we still have a lot of buildings that need to be heated using natural gas, and we have a lot of industries that consume large volumes of natural gas for their process requirements.

At all of these locations is a chimney poking out of the roof - venting hot exhaust and water. A lot of wasted energy! With the technology of Condensing Flue Gas Heat Recovery the waste heat energy can be recovered out of the combusted natural gas exhaust. This recovered heat energy can be used in the building or facility and be used for building space heating or as heated domestic or process water. What will be vented from the Condensing heat recovery unit will be cool exhaust, someday even cooler than the outside air temperature.

The Appliances Energy Efficiency can be increased to well over 90%.

For every 1 million Btu's of heat energy that is recovered from the combusted natural gas exhaust and the recovered heat energy is utilized, 117 lbs of CO2 will not be put into the atmosphere. This adds up to be tons very quickly.

California is also dependent upon water. In every 1 million BTu's of combusted natural gas are 5 gallons of recoverable - distilled water. To get at that water the heat energy must be removed from the combusted exhaust. The lower the exhaust temperature can be reduced, the greater the volume of water produced.

Applying this technology is not only good for California's environment and economy, but it will create many full time jobs in the engineering of, and the installation of these systems at buildings and facilities across the state.

We look forward to your comments.

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