

DOCKETED

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It's About Climate Change

California wants to retain it's leadership as the state doing the most in the battle against Climate Change.

If it truly wants to win it has to increase it's natural gas energy efficiency and apply the technology of Condensing Flue Gas Heat Recovery. Natural gas can be consumed to near 100% energy efficiency and California is overlooking this opportunity.

Combusted natural gas is putting a lot of wasted heat energy into the atmosphere. California says it wants to Reduce Global Warming. Really?

With the above technology the heat energy will be removed from the combusted exhaust making it available for use in the building where it was combusted, or be used in another application. Being vented into the atmosphere at times will be exhaust that is cooler than the outside ambient air temperature. Can this be called Mass Cooling?

For every 1 million Btu's of heat energy that is recovered from this combusted natural gas exhaust and is utilized, 117 lbs of CO₂ will not be put into the atmosphere. What other method of CO₂ reduction can create such big numbers from a single room or a single appliance?

California got reprieve this past winter with an abundance of rain, but will it continue in future years? In every 1 million Btu's of natural gas that is combusted are 5 gallons of recoverable distilled water, and this water is very usable.

Today California is allowing all this natural gas to be combusted and be vented into the atmosphere as hot exhaust. It is missing out on Increasing Natural Gas Energy Efficiency. It is allowing all this CO₂ to be vented into the atmosphere instead of showing reduced CO₂ emissions. It is allowing all this water to get into the jet stream and come down as rain in the Mid West or on the East Coast.

Don't we need it here?

Our natural gas power plants emit a lot of exhaust into the atmosphere as do California industries. At all these locations Increased Energy Efficiency can be applied. Last year California at these commercial and industrial locations consumed approximately 1.9 Trillion cu.ft of natural gas. This is so much wasted energy, in a State that wants to be the leader in Energy Efficiency.

We want to help you too, but you have to recognize the wasted energy. Do this and we will show you what all can be done to make this major step forward in the states major battle against Climate Change.

Our goal is to help reduce Global Warming and CO₂ Emissions, and to help our State in it's Water Conservation/Creation.

Who comes ahead? Anyone who wants to be more efficient in their natural gas consumption and wants to reduce their Carbon Footprint.

It costs nothing to inquire. See attached.

Additional submitted attachment is included below.



QUESTIONNAIRE FOR COMPUTER CALCULATION
OF A SIDEL SERIES **FLUE GAS HEAT RECOVERY** UNIT

Email: Sid@SidelSystems.com

Company Name

Contact Name

Address

Phone

Fax

E-mail

Required information:

Project name

Boiler make

Boiler capacity

Maximum gas consumption

Stack temperature @ maximum load

Excess air at maximum load

Average burner load

Average stack temperature

Excess air at average load

O₂

CO₂

Combustion air temperature

Maximum permissible back pressure

Water inlet temperature to SRU unit

Water flow

Maximum water pressure to SRU unit

Chimney diameter

boiler HP

cu.ft./hr

F

%

BTU/hr

F

%

%

%

F

inches w/c

F

GPM

PSI

inches

Potential application for recovered heat:

plant washdown; preheat process water; preheat return water for heating system, boiler
make-up feedwater; other:

(Remember, the cooler the water at a 'good' flow rate,
the higher the efficiency that can be achieved)

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