

From: [CNRA Climate](#)
To: [DeLaRosa, JR@CNRA](mailto:DeLaRosa_JR@CNRA)
Subject: FW: Safeguarding California Plan : 2017
Date: Friday, June 23, 2017 9:12:50 AM

From: sidabma@gmail.com On Behalf Of Sid Abma
Sent: Friday, June 23, 2017 9:12:43 AM (UTC-08:00) Pacific Time (US & Canada)
To: CNRA Climate
Subject: Safeguarding California Plan : 2017

Good Day Technical Advisory Group

California's Climate Goals as I see it is to (1) Reduce Global Warming (2) Reduce Greenhouse Gas Emissions (3) Conserve Water

Last year California consumed in the area of 1.7 trillion cu.ft of natural gas by commercial and industrial and at our natural gas power plants. Approximately 65% of this was wasted. It was blown up chimneys across the state as hot exhaust into our atmosphere. This does not help us in our battle against global warming.

Natural gas is an energy source that can be consumed to near 100% energy efficiency. The residential market proves that with their condensing boilers and water heaters. The technology of Condensing Flue Gas Heat Recovery has been used by some industries to increase their energy efficiency. It needs to be encouraged more by the utilities and the state.

For every 1 million Btu's of heat energy that is recovered from the combusted natural gas exhaust and is utilized, 117 lbs of CO2 will NOT be put into the atmosphere. A lot of these industries and power plants operate 24/7. CO2 emissions can be reduced by big numbers if the technology of Condensing Flue Gas Heat Recovery is applied more.

In every 1 million Btu's of natural gas that is combusted are 5 gallons of recoverable water. When the heat energy is removed from the combusted natural gas exhaust, this distilled water is created. The cooler the temperature of the exhaust is brought to, the greater the volume of water produced.

Today all the combusted natural gas is just being vented into the atmosphere. The water is coming down as rain in the Mid West and on the east coast, when we need the water here.

It's a simple solution that can provide much good to our environment and our economy.

I look forward to your reply.

Have a Fantastic Weekend!



What natural gas is not wasted today, will be there to be used another day.

Sid Abma

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