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To: [DEP NJDEP-BAQP](#)
Subject: [EXTERNAL] REDUCING CARBON EMISSIONS IN NEW JERSEY
Date: Wednesday, March 4, 2020 9:21:13 AM
Attachments: [SOLUTION TO HSFO FOR BOILERS..docx](#)

Department of Environmental Protection,

I admire your approach to climate change. Your stakeholders meeting February 25, 2020 was great. I would like to help you in your endeavor to increase fuel efficiency, reduce carbon dioxide, nitrogen oxides and sulfur dioxide along with particulate matter emissions as follows.

ENRJ International has a Dual Fuel Conditioning System that is reducing HSFO fuel cost up to 5%. The reduced fuel cost for a small 215 MW electric generating plant is more than \$5 M annually. The reduced fuel cost for a ship burning 120mt of HSFO per day is more than \$600K annually. The reduced fuel cost is sufficient to support an emissions reduction system to reduce carbon dioxide, nitrogen oxides and sulfur dioxide emissions while improving the operators bottom line. **Therefore, the operator can get paid while reducing emissions.**

ENRJ'S patented ABS and USCG approved Dual Fuel Conditioning System is singular in design; custom, scalable, mature, 100% automatic, PLC controlled stand alone or it may be connected to the DCS. All system parameters are displayed on a HMI in the control room. We inject a small volume of boiler blow down water or potable water into the HSFO at inception of conditioning controlling water droplet size at 4 to 7 microns with 100% dispersion. The micro explosions of water droplets during combustion explode the oil drop to a larger burning area, creating the probability of oil and oxygen molecules colliding creating secondary atomization. Secondary atomization increases the burnout times by a factor of six and increase burnout temperature. This is a mature proven system with more than 30 successful installations.

The fuel savings are adequate to support ENRJ's closed loop emissions reduction system to reduce carbon dioxide, nitrogen oxides, sulfur dioxide that will not increase back pressure. This system operates on sea water onboard ships and land based boiler when sea water is available to reduce sulfur dioxide without injecting chemicals.

ENRJ International is researching a sponsor/partner to get our systems on the market. The funds invested by a sponsor or partner will be recovered in a couple of years as well as owning part of the company.

Please review to attachment.

Together we can make New Jersey an example of increasing efficiency and reduced emissions.

We look forward to your response. We enjoy answering questions.

Sincerely,

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