

From: [Soyars, Darrell](#)
To: [Smith, Laura](#)
Subject: RE: NV Energy Emissions Factors
Date: Monday, November 09, 2009 2:11:36 PM

Hello Laura,

The 2008 CCAR factors have not been verified yet but they most likely will be very similar to 2007. The emission factors below look ok except for the CO2 which would be 1,443 lbs/Megawatt – hour (MWh). Let me know if you have any questions...

Thanks, Darrell

*Darrell Soyars | Program Manager
NV Energy | Environmental, Health and Safety
6100 Neil Road, Reno, Nevada 89520
O:775.834.4744 | C:775.771.0882
NEW EMAIL: dsoyars@nvenergy.com*

From: Smith, Laura [mailto:lsmith@jsanet.com]
Sent: Monday, November 09, 2009 1:59 PM
To: Soyars, Darrell
Subject: RE: NV Energy Emissions Factors

Hi Darrell,

I hope this email finds you well. I wanted to follow up with our email conversation regarding emission factors for CO2, CH4, and N2O (below). Last we spoke; you provided a CO2 emission factor and indicated that statistics for CH4 and N2O may be available next month (November). I am just beginning my analysis and was wondering if these values now available? If not, I will go ahead and use the below statistics to calculate emissions from electrical usage:

CO2: 0.001443 lb/ MWh (your email 10/5/2009)
CH4: 0.0302 lb/ MWh (CCAR)
N2O: 0.0081 lb/MWh (CCAR)
SF6: 0.00032 lb MWh (ARB)

Please note that the CCAR emission factors for CH4 and N2O are higher than the CO2 emission factor you provided in October. Please verify that this is correct.

Thanks so much!

Laura

From: Soyars, Darrell
Sent: Monday, October 05, 2009 9:42 AM
To: Matthews, Jeff
Cc: Weldon, Eric
Subject: RE: NV Energy Emissions Factors

We currently have California Climate Action Registry (CCAR) third-party verified numbers for CO2 only.

These represent "NV Energy Power Delivered" to the customer...

2006: 1.489 lbs CO2/kWh

2007: 1.443 lbs CO2/kWh

We are going through the CCAR verification process right now so I expect that our 2008 value will be available next month. I do have rough estimates for CH4 and N2O but they have not been verified. Let me know if you have any questions.

-Darrell

*Darrell Soyars | Program Manager
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NEW EMAIL: dsoyars@nvenergy.com*

From: Smith, Laura [mailto:lsmith@jsanet.com]
Sent: Thursday, October 01, 2009 3:51 PM
To: _DL Nevadateam
Subject: NV Energy Emissions Factors

Hello,

I will be completing an Air Quality analysis for a project located in the South Lake Tahoe area. More specially, I will quantify GHG emissions from anticipated electricity and water consumption. Does NV Energy have current emissions factors for CO2, CH4, and N2O per kWh? If so, are these statistics third party verified or audited? Any information would be extremely helpful.

Thank you in advance,

Laura Smith

Air Quality and Climate Change Specialist

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