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19-October-2020

Information Quality Guidelines Staff

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Re: Information Quality Act Correction Request Regarding Dissemination of Flawed Information Concerning the Terms “Greenhouse Effect” or “Greenhouse Gas” -- Revised (19-10-2020) to correct misspelling of Stefan-Boltzmann.

In the following, “Agency” will be a reference to your Agency within the US Government.

I am submitting this request for correction under the Information Quality Act (IQA), 114 Stat. 2763, section 515, as implemented through the Agency and the Office of Management and Budget (OMB) guidelines.

Paraphrased from the Federal Register, Volume 67, Number 36, Friday, February 22, 2002/Notices Page 8459, Under the general definition of “Objectivity”, there are two distinct areas of concern. The first is that the Agency in question accurately reports existing information in a clear, complete, and unbiased manner. The second is that the information itself is accurate and reliable and has been arrived at in an unbiased manner.

The second of these is alluded to in the summary text of the same document on page 8453, “...presented in an accurate, clear, complete, and unbiased manner *and as a matter of substance, is accurate, reliable, and unbiased*” (my italics).

It is my contention that the second of these, i.e., the accuracy of the information itself, in reference to the terms “Greenhouse Effect”, “Greenhouse Gas”, and related concepts, has not been met.

As has been detailed in the recently published book, *Air of Doubt* (ISBN: 979-8697917329), the genesis of the concept of a “Greenhouse Effect” (also called a “Natural Greenhouse Effect”) is by noting that the empirically measured global mean surface temperature of the Earth over continental crust, $\sim 288K$ (15C or 59F), differs from that computed through the Stefan-Boltzmann equation using empirically measured ground-level incident solar flux, $240 W/m^2$. The

Stefan-Boltzmann equation computation is somewhat trivial,

$$\begin{aligned} T &= 64.8 \cdot \Phi \cdot \\ &= 64.8 \cdot 240 \cdot \\ &= 64.8 \cdot 3.936 \\ &= 255K \text{ } (-18C \text{ or } 0.4F). \end{aligned} \quad 1$$

In this, the *64.8* factor is, in essence, the Stefan-Boltzmann constant. Obviously, the symbol Φ represents ground-level insolation.

From this, it is easily seen that the measured surface temperature (*288K*) is *33K* greater than that provided by insolation (*255K*). Therefore, there must be some contribution to Earth's surface temperature other than insolation. This is the basis of the "Greenhouse Effect Theory" that postulates an atmospheric contribution to the surface temperature that involves absorption and reradiation of thermal radiative flux emitted from the surface.

This is manifestly incorrect in that one contribution to Earth's surface temperature is not properly accounted for. That is, the geothermal heat from Earth's interior is missing. The mean global geothermal flux has been well-measured for some time. It is common knowledge in the field that the magnitude of that flux over continental crust is approximately *0.065W/m²*. Using the Stefan-Boltzmann equation above and this well-known mean flux value we obtain

$$\begin{aligned} T &= 64.8 \cdot \Phi \cdot \\ &= 64.8 \cdot 0.065 \cdot \\ &= 64.8 \cdot 0.505 \\ &= 33K. \end{aligned} \quad 2$$

What this computation does is indicate that for Earth's surface to radiate away the *0.065W/m²* of geothermal flux as it reaches the surface, the surface must have a temperature of *33K*.

There is no argument within the scientific community that the geothermal flux is ignored in the calculation. The argument for doing so is because of the relative difference between the magnitude of the solar flux and that of the geothermal flux. However, this analysis requires the simple addition of the fluxes in the Stefan-Boltzmann equation, i.e.,

$$\begin{aligned} T &= 64.8 \cdot \Phi \cdot \\ &= 64.8 \cdot (240 + 0.065) \cdot \\ &= 64.8 \cdot 3.936 \\ &= 255K. \end{aligned} \quad 3$$

This naïve summing of the two fluxes violates the first law of thermodynamics (conservation of energy). The mathematical technique used to solve for temperature in a solid with two constant heat sources is to 1) treat each source independently of the others, 2) compute the temperature distribution for each source, and then 3) sum the solutions. This is known as the

superposition principle. It is not simply a mathematical technique. It is, in fact, required by the physics of the problem. In this instance, since the temperature at any place in the solid is equivalent to the internal energy there, to not obey the superposition principle is to violate the first law of thermodynamics. Adding the heat fluxes violates the superposition principle.

Therefore, the entire, exact, global mean surface temperature of planet Earth is completely explained by properly including both solar and geothermal fluxes through standard mathematical techniques and the Stefan-Boltzmann equation. As such, the "Greenhouse Effect" is unconditionally disproven. Further, sans a "Greenhouse Effect", the concept of a "Greenhouse Gas" is equally disproven.

Therefore, it is requested that correction be made to all documents, electronic or paper based, published by the Agency, that includes the terms "Greenhouse Effect", "Greenhouse Gas", or any related concept. Such correction should address the fact that the Effect has been disproven or the document in question should be removed from public view and replaced with an accurate analysis of Earth's surface temperature.

Since the term itself is in wide use throughout the Agency, focus on a specific document is unhelpful. However, a relatively accurate and complete list of flawed documents can be found via a search engine focused on the Agency's URL and the terms "greenhouse effect" or "greenhouse gas".

Using the Google search engine, the Agency has approximately *64,200* flawed documents. I've attached a portion of the results of that search.

It must be stressed that widespread adoption of the flawed Greenhouse Effect Theory has affected virtually every citizen of the United States. Rapid response to this request for correction can only help to resolve the deleterious effect it has had on those citizens.

Sincerely,

Frank A Tinker, Ph.D.

ftinker@airofdoubt.com



View all

[www.epa.gov/files › pictorial-g-emissions-2016](#) PDF

Global Greenhouse Gas Emissions - EPA

Increasing emissions of greenhouse gases due to many activities worldwide have led to a substantial increase in atmospheric concentrations of long-lived a d...

[www.epa.gov/climate-education › greenhouse-gases](#)

Climate Change Indicators: Greenhouse Gases - EPA

February 22, 2017 – Since 2005, however, total U.S. **greenhouse gas** emissions have decreased by 7 percent. Carbon dioxide accounts for most of the emissions...

[www.epa.gov/epo-activities › greenhouse-gases](#)

Greenhouse Gases | EPA's Report on the Environment (ROE ...

March 19, 2020 – What are the risks of **greenhouse gas** emissions and climate change? Impacts on human health and the environment? Impacts on...

[active.epa.gov/climatechange › kids › basics › today](#)

The Greenhouse Effect | A Student's Guide to Global Climate ...

May 9, 2017 – The **Greenhouse Effect**. If it were not for greenhouse gases that trap heat in the atmosphere, the Earth would be a very cold place. Greenhouse...

[19january2017snapshot.epa.gov › greenhouse › sources](#)

Sources of Greenhouse Gas Emissions - US EPA

October 6, 2016 – Approximately 67 percent of electricity comes from burning fossil fuels, mostly coal and natural gas. Transportation (26 percent of 2014...

[active.epa.gov/climatechange › kids › basics › today](#)

Greenhouse Gases | A Student's Guide to Global Climate ...

September 5, 2017 – Carbon dioxide is the **greenhouse gas** you hear people talk about the most. That's because we produce more carbon dioxide than any other...

[www.epa.gov › greenhouse › interactive › greenhouse](#)

Interactive of US Greenhouse Gas Emissions and Sinks - EPA

September 11, 2020 – This interactive provides a comprehensive accounting of total **greenhouse gas** emissions for all man-made sources in the United States. The...

[www.epa.gov › greenhouse › greenhouse-gas-interactive](#)

US Greenhouse Gas Inventory Report: 1990-2014 - EPA

September 10, 2020 – This report tracks total annual U.S. emissions and removals by source, economic sector, and **greenhouse gas** going back to 1990. EPA sees...

[www.epa.gov › greenhouse › greenhouse-gas-education](#)

Greenhouse Gas Education: Health Effects - EPA

July 11, 2017 – **Greenhouse Gas** Education: Health Effects. View the slideshow on the page to see a list of facts about the health effects...

[cfp.epa.gov › ghdata › interactive › explore](#)

Greenhouse Gas Interactive Data Explorer | US EPA

The Data Explorer is an interactive tool that provides access to data from EPA's annual Inventory of U.S. **Greenhouse Gas** Emissions and Sinks. You can follow...

[www.epa.gov › greenhouse › old-carbon-footprint](#)

How Old Carbon Footprint Calculator | Greenhouse Gas ...

September 10, 2020 – Many of our daily activities cause emissions of greenhouse gases. For example, we produce **greenhouse gas** emissions from driving gasol...

www.epa. ov > limate-i i ators > limate- ha e-i ... ▼

Climate Change Emissions: U.S. Greenhouse Gas Emissions ...

December 17, 2016 — This figure shows emissions of carbon dioxide, methane, nitrous oxide, and several fluorinated gases in the United States from 1990 to 2014.

www.epa. ov > h reporti > fluori ate - ree house... ▼

Fluorinated Greenhouse Gas Emissions - EPA

October 1, 2019 — The Greenhouse Gas Reporting Program (GHGRP) covers emissions of these compounds by requiring specific facilities that emit significant amounts...

www.epa. ov > e er y > ree house- as-equivalen ies... ▼

Greenhouse Gas Equivalencies Calculator | Enter your ...

Did you ever wonder what your carbon dioxide (CO₂) emissions by 1 million metric tons means in everyday terms? The greenhouse gas equivalencies ...

www.epa. ov > h reporti ▼

Greenhouse Gas Reporting Program (GHGRP) | US EPA

January 10, 2020 — The GHGRP requires reporting of greenhouse gas (GHG) data and other relevant information from large GHG emission sources, fuel ...

efpub.epa. ov > roe > i i ator_p f ▼ PDF

US Greenhouse Gas Emissions - EPA

His "greenhouse effect" occurs naturally, making life as we know it possible. Since the Industrial Revolution began in the late 1700s, however, people have ...

www.epa. ov > h emissio s > us- ree house- as-i ve... ▼

US Greenhouse Gas Inventory Report Archive - EPA

September 10, 2020 — This page contains past versions of the U.S. Greenhouse Gas Inventories developed by the U.S. Government to meet U.S. commitments under the ...

archive.epa. ov > epa > re u i - ree house- as-emiss... ▼

Reunion Greenhouse Gas Emissions | Climate Change | US ...

May 9, 2017 — These houses are likely to the limbic levels of carbon dioxide and other greenhouse gases in our atmosphere, caused by human activities ...

www.epa. ov > h emissio s > e a erme t-a - au... ▼

Environmental Cause or Contributor Factors for ... - EPA

However, this action was a prerequisite for implementing greenhouse gas emissions standards for vehicles. Collaboration with the National Highway Traffic ...

www.epa. ov > h emissio s > i ve tory-us- ree hou... ▼

Inventory of U.S. Greenhouse Gas Emissions and Sinks Fast ...

April 13, 2020 — Inventory of U.S. Greenhouse Gas Emissions and Sinks Fast Facts and Data Highlights. See below for summary information from the report, ...

www.epa. ov > arbo -pollutio -tra sportatio ▼

Carbon Pollution from Transportation | Transportation, Air ...

June 25, 2020 — Transportation is a Climate Change. Burning fossil fuels like gasoline and diesel releases carbon dioxide, a greenhouse gas, into the ...

www.epa. ov > h emissio s > i ve tory-us- ree hou... ▼

Inventory of US Greenhouse Gas Emissions and Sinks ... - EPA

September 10, 2020 — View the Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2015 (published 2017), developed by the U.S. Government to meet ...

www.epa. ov > e er y > ree house- ases-equivalen i... ▼

Greenhouse Gases Equivalencies Calculator - Calculations ...

www.epa. v > final-ule-fin in - eenh use- as-emis... ▼

Final Rule Fin in That G eenh use Gas Emissi ns F m ...

The EPA finalize fin in s that **greenho se gas** (GHG) emissi ns m ce tain classes en ines use in ai c a t c nt ibute t the ai p lluti n that causes climate ...

www.epa. v > h emissi ns > invent y-us- eenh u... ▼

Invent y US G eenh use Gas Emissi ns an Sinks ... - EPA

Sep 10, 2020 – View the 2014 U.S. **Greenho se Gas** Invent y evel pe by the U.S. ve nment t meet U.S. c mmitments un e the Unite Nati ns ...

www.epa. v > h ep tin > h p-ep te - ata ▼

GHGRP Rep te Data | G eenh use Gas Rep tin P am ...

Dec 16, 2019 – Rep te i ect emissi ns t tale 2.99 billi n met ic t ns ca b n i xi e equivalent (CO2e), ab ut hal t tal U.S. **greenho se gas** emissi ns; ...

www.epa. v > h emissi ns > invent y-us- eenh u... ▼

Invent y US G eenh use Gas Emissi ns an Sinks ... - EPA

Sep 10, 2020 – View the 2008 U.S. **Greenho se Gas** Invent y evel pe by the U.S. ve nment t meet U.S. c mmitments un e the Unite Nati ns ...

www.epa. v > h emissi ns > invent y-us- eenh u... ▼

Invent y US G eenh use Gas Emissi ns an Sinks ... - EPA

Sep 10, 2020 – View the 2006 U.S. **Greenho se Gas** Invent y evel pe by the U.S. ve nment t meet U.S. c mmitments un e the Unite Nati ns ...

www.epa. v > h ep tin > h -ep tin -p am... ▼

GHG Rep tin P am Data Sets | G eenh use Gas ... - EPA

The **Greenho se Gas** Rep tin P am (GHGRP) c llects **Greenho se Gas** (GHG) ata m la e emittin acilities, supplie s ssil uels an in ust ial ...

www.epa. v > files > us- h -invent y-2019-main-text PDF

Invent y US G eenh use Gas Emissi ns an Sinks - EPA

Ap 11, 2019 – N tice an is p ste n the EPA **Greenho se Gas** Emissi ns web site. ... enhancin the **greenho se effect** because b th a e essentially ...

www.epa. v > h emissi ns > invent y-us- eenh u... ▼

Invent y US G eenh use Gas Emissi ns an Sinks ... - EPA

Sep 10, 2020 – View the 2010 U.S. **Greenho se Gas** Invent y evel pe by the U.S. ve nment t meet U.S. c mmitments un e the Unite Nati ns ...

www.epa. v > h emissi ns > invent y-us- eenh u... ▼

Invent y US G eenh use Gas Emissi ns an Sinks ... - EPA

Sep 10, 2020 – View the 2015 U.S. **Greenho se Gas** Invent y evel pe by the U.S. ve nment t meet U.S. c mmitments un e the Unite Nati ns ...

www.epa. v > h emissi ns > invent y-us- eenh u... ▼

Invent y US G eenh use Gas Emissi ns an Sinks ... - EPA

Sep 10, 2020 – View the 2013 U.S. **Greenho se Gas** Invent y evel pe by the U.S. ve nment t meet U.S. c mmitments un e the Unite Nati ns ...

www.epa. v > h emissi ns > invent y-us- eenh u... ▼

Invent y US G eenh use Gas Emissi ns an Sinks ... - EPA

Sep 10, 2020 – View the 2011 U.S. **Greenho se Gas** Invent y evel pe by the U.S. ve nment t meet U.S. c mmitments un e the Unite Nati ns ...

www.epa. v > h ep tin > h p-pet leum-an -n... ▼

GHGRP Pet leum an Natu al Gas Systems | G eenh use ...

Sep 14, 2020 Se - **Greenhouse Gas** Emissi ns Rep ed e GHGRP (all ep ed emissi ns values p esen ed in milli n me i ns CO2e based n ...

www.epa.g v > d umen s > 2017_ mple e_ ep PDF

Inven y f US G een use Gas Emissi ns and Sinks - EPA

Ap 15, 2017 F m e inf ma i n ega ding lima e ange and **greenhouse gas** ... Wa e vap is e la ges n ibu e na u al **greenhouse effect**.

www.epa.g v > g g ep ing > g g p-was e

GHGRP Was e | G een use Gas Rep ing P g am ...

Sep 14, 2020 T e was e se nsis s f muni ipal s lid was e (MSW) landfills, indus ial was e landfills, indus ial was ewa e ea men sys ems, and ...

www.epa.g v > g gemissi ns > inven y-us-g een u... PDF

Inven y f US G een use Gas Emissi ns and Sinks ... - EPA

Feb 11, 2019 View e Inven y f U.S. **Greenhouse Gas** Emissi ns and Sinks: 1990–2016 (publis ed 2018), devel ped by e U.S. G ve nmen mee ...

www.epa.g v > e gula i ns-g een use-gas-emissi ns-a... PDF

Regula i ns f G een use Gas Emissi ns f m Ai af - EPA

EPA p p sed **greenhouse gas** (GHG) emissi ns anda ds f ai planes used in mme ial avia i n and f la ge business je s. T is a i n, if finalized, will align ...

www.epa.g v > si es > p du i n > files > d umen s PDF

Guide G een use Gas Managemen f Small ... - EPA

ange by implemen ing a i ns a save m ney, imp ve p du ivi y, and l we **greenhouse gas** (GHG) emissi ns. T is d umen is a guide es ima ing ...

www.epa.g v > g eenve i les > g een use-gas-emissi...

G een use Gas Emissi ns f m a Typi al Passenge Ve i le ...

May 10, 2018 T is numbe an va y based n a ve i le's fuel, fuel e n my, and e numbe f miles d iven pe yea . Cli k n e ques i ns bel w lea n ...

www.epa.g v > files > us-g g-inven y-2020-main- ex PDF

Inven y f US G een use Gas Emissi ns and Sinks - EPA

Ap 13, 2020 Regis e N i e and is p sed n e EPA **Greenhouse Gas** Emissi ns web ... en an ing e **greenhouse effect** be ause b a e essen ially ...

www.epa.g v > g gemissi ns > na u al-gas-and-pe le...

Na u al Gas and Pe leum Sys ems | G een use Gas (GHG ...

l is EPA's s anda d p ess upda e e Inven y f U.S. **Greenhouse Gas** Emissi ns and Sinks (GHG Inven y) w en elevan new and imp ved da a e ...

www.epa.g v > g g ep ing > key-fa s-and-figu es

Key Fa s and Figues | G een use Gas Rep ing P g am ...

Sep 14, 2020 EPA **Greenhouse Gas** Da a Se s. EPA as w mplemen a yp gams a publis annual da a n U.S. GHG emissi ns: Inven y f U.S. ...

www.epa.g v > g g ep ing > g g p-unde g und- ...

GHGRP Unde g und C al Mines | G een use Gas ...

Sep 14, 2020 Se - **Greenhouse Gas** Emissi ns Rep ed e GHGRP (all emissi ns values p esen ed in milli n me i ns CO2e). 2011, 2012, 2013 ...

19janua y2017snaps .epa.g v > g gemissi ns > gl b...

Gl bal G een use Gas Emissi ns Da a - US EPA

Aug 9, 2016 Gl bal **Greenhouse Gas** Emissi ns Da a. On T is Page: Gl bal Emissi ns by Gas; Gl bal Emissi ns by E n mi Se . T ends ...

www.epa. ov > federal-fleets- s -low- ree ho se- a... ▼

Federal Fleets s ow-Gree ho se Gas Em tt Veh cles ...

Overv ew. Sect o 141 of the 200 E er y l depe de ce a d Sec r ty Act (EISA) req res federal a e ces to acq re low **greenhouse gas** (GHG) em tt ...

www.epa. ov > h em ss o s > ve tory- s- ree ho ... ▼

I ve tory of US Gree ho se Gas Em ss o s a d S ks ... - EPA

Sep 10, 2020 — V ew the 2003 U.S. **Greenhouse Gas** I ve tory developed by the U.S. over me t to meet U.S. comm tme ts der the U ted Nat o s ...

www3.epa. ov > tt che1 > fi al ▼ PDF

AP-42, CH 14.1: Em ss o s From So ls - Gree ho se ... - EPA

Var o s a r c lt ral so l ma a em e t pract ces co tr b te to **greenhouse gas** em ss o s. The se of sy thet c a d or a c fert l zers adds tro e to so ls, ...

www.epa. ov > s tes > prod ct o > files > doc me ts ▼ PDF

Em ss o Factors for Gree ho se Gas I ve tor es - EPA

F el Type. Heat Co te t (HHV). CO2 Factor. CH4 Factor. N2O Factor. CO2 Factor. CH4 Factor. N2O Factor. mmBt per short to k CO2 per mmBt CH4 per ...

www.epa. ov > h report > ree ho se- as-report ... ▼

Gree ho se Gas Report Pro ram a d the U.S. I ve tory of ...

Nov 25, 2019 — These so rces are fo d across all se me ts of the U.S. eco omy. EPA s respo s ble for character z **greenhouse gas** em ss o s s two ...

www.epa. ov > h em ss o s > ve tory- s- ree ho ... ▼

I ve tory of US Gree ho se Gas Em ss o s a d S ks ... - EPA

Feb 11, 2020 — V ew the I ve tory of U.S. **Greenhouse Gas** Em ss o s a d S ks: 1990–201 (p bl shed 2019), developed by the U.S. Gover me t to meet ...

www.epa. ov > re lat o s- ree ho se- as-em ss o s... ▼

Re lat o s for Gree ho se Gas Em ss o s from Passe er ...

A 12, 2020 — The at o al pro ram for **greenhouse gas** em ss o s (GHG) a d f el eco omy sta dards for I ht-d ty veh cles (passe er cars a d tr cks) ...

www.epa. ov > e v ro > ree ho se- as-restf l-data-se... ▼

Gree ho se Gas RESTf l Data Serv ce | E v rofacts | US EPA

This format o s prov ded for tech cal experts who te d to work d rectly w th the database. Other sers ca retr eve format o s the **Greenhouse Gas** ...

www.epa. ov > m dterm-eval at o -l ht-d ty-veh cle... ▼

M dterm Eval at o of ht-D ty Veh cle Gree ho se Gas ...

O Apr 12, 2018, the Adm strator s ed the M d-term Eval at o F al Determ at o wh ch fi ds that the model year 2022-2025 **greenhouse gas** sta dards are ...

www.epa. ov > e er y > ree ho se- as-eq vale ces... ▼

Gree ho se Gas Eq vale ces Calc lator - Rev s o H story ...

Mcf of at ral as: The em ss o factor has bee pdated to 0.0549 metr c to s of CO2/Mcf. The prev o s val e was 0.0551 metr c to s. Home electr c ty se: The ...

www.epa. ov > files > doc me ts > 2018_complete_report PDF

I ve tory of US Gree ho se Gas Em ss o s a d S ks - EPA

Apr 12, 2018 — E er y So rces of I d rect **Greenhouse Gas** Em ss o s. ... e ha c the **greenhouse effect** beca se both are esse t ally tra spare t to ...

www.epa. ov > cl mate- d cators > cl mate-cha e- d... ▼

Cl mate Cha e I d cators: Cl mate Forc - EPA

Dec 17, 2011 The right side of the graph, radiative forcing has been covered on the Annual **Greenhouse Gas Index**, which is set to a value of 1.0 for 1990.

19 January 2017 [epa.gov/ghgemissions](#)

[Greenhouse Gas \(GHG\) Emissions | US EPA](#)

Dec 20, 2011 **NEW!** Explore 2015 GHG emissions from the largest sources and sectors: Read the Press Release » Explore the data through our map app, ...

[www.epa.gov/greenvehicles/archives-facilities-us-r...](#)

[Archives of Facilities: U.S. Transportation Sector Greenhouse ...](#)

Emissions estimates for the Inventory of U.S. **Greenhouse Gas Emissions** and Sectors are recalculated each year for the reference year of the inventory (1990 or ...)

[www.epa.gov/gmi/importance-methane](#)

[Importance of Methane | Global Methane Initiative \(GMI\) | US ...](#)

Nov 15, 2011 Methane is also a **greenhouse gas** (GHG), so its presence in the atmosphere affects the earth's temperature and climate system. Methane is ...

[www.epa.gov/eiro/greenhouse-gas-customized-se...](#)

[Greenhouse Gas Customized Search | Eirofacilities | US EPA](#)

The **Greenhouse Gas** (GHG) Customized Search retrieves data from the GHG database in Eirofacilities. GHG Customized Search allows you to create a report on ...

[www.epa.gov/state-local-transportation/estimates...](#)

[Estimating Greenhouse Gas Emissions | State and Local ...](#)

Jul 1, 2020 Estimating **Greenhouse Gas Emissions**. Related Information. Transportation and Climate includes links to "Basic Information," "Regulation and ...

[www.epa.gov/sites/production/files/documents/PDF](#)

[Emission Factors for Greenhouse Gas Inventories - EPA](#)

Coal and Coke. A. Heating Coal. 25.09. 103. 9. 11. 1. 1. 2, 02. 27. 40 short tons. Bituminous Coal. 24.93. 93.28. 11. 1. 1. 2,325. 274. 40 short tons.

[www.epa.gov/global-mitigation/-co2-greenhouse...](#)

[Global Non-CO₂ Greenhouse Gas Emission Projections ... - EPA](#)

Dec 4, 2019 Between 1990 and 2015, global non-CO₂ emission levels rose by about 29%. By 2030, the total global non-CO₂ GHG mitigation potential is ...

[www.epa.gov/ghgemissions/gridded-2012-methane...](#)

[Gridded 2012 Methane Emissions | Greenhouse Gas \(GHG\) ...](#)

Sep 11, 2020 A team at Harvard University along with EPA and other coauthors developed a gridded inventory of U.S. anthropogenic methane emissions ...

[www.epa.gov/ghgreporting/ghgrp-chemicals](#)

[GHGRP Chemicals | Greenhouse Gas Reporting Program ...](#)

Sep 14, 2020 The chemical manufacturing sector consists of facilities that manufacture organic or inorganic chemicals. For this summary, the sector is broken ...

[www.epa.gov/newsreleases/las-inventory-us-green...](#)

[Las Inventory of US Greenhouse Gas Emissions and ... - EPA](#)

Las Inventory of U.S. **Greenhouse Gas Emissions** and Sectors Shows Long-Term Reductions. 04/11/2019. Contact Information: EPA Press Office ...

[www.epa.gov/ghgreporting/ghgrp-powerplants](#)

[GHGRP Power Plants | Greenhouse Gas Reporting Program ...](#)

Sep 14, 2020 The power plant sector consists of facilities that produce electricity by burning fossil fuels and/or biomass. The sector includes utilities ...

[www.epa.gov](#) > [greenhouse gas emissions](#) > [inventory-us-greenhouse-gas-emissions](#) ▾

[Inventory of Greenhouse Gas Emissions and Sinks ... - EPA](#)

September 10, 2020 — View the 2005 Greenhouse Gas Inventory developed by the U.S. government to meet U.S. commitments under the United Nations ...

[www.epa.gov](#) > [greenhouse gas emissions](#) > [inventory-us-greenhouse-gas-emissions](#) ▾

[Inventory of Greenhouse Gas Emissions and Sinks ... - EPA](#)

September 10, 2020 — View the 2007 Greenhouse Gas Inventory developed by the U.S. government to meet U.S. commitments under the United Nations ...

[www.epa.gov](#) > [greenhouse gas reporting](#) > [greenhouse gas reporting-refineries](#) ▾

[Hourly Refineries | Greenhouse Gas Reporting Program ...](#)

September 14, 2020 — The refinery sector consists of facilities that produce gasoline, gasoline blending stocks, naphtha, kerosene, distillate fuel oils, residual fuel oils, ...

[www.epa.gov](#) > [greenhouse gas reporting](#) > [greenhouse gas reporting-pulp-and-paper](#) ▾

[Hourly Pulp and Paper | Greenhouse Gas Reporting ...](#)

September 14, 2020 — Facilities that have pulping processes report their greenhouse gas emissions from chemical recovery units, lime kilns, and stationary fuel combustion units. In ...

[www.epa.gov](#) > [greenhouse gas reporting](#) > [greenhouse gas reporting-metals](#) ▾

[Hourly Metals | Greenhouse Gas Reporting Program ...](#)

September 14, 2020 — Primary aluminum, ferroalloy, iron and steel, lead, magnesium, and zinc production facilities report their greenhouse gas emissions from metal smelting, refining, ...

[www.epa.gov](#) > [greenhouse gas emissions](#) > [inventory-us-greenhouse-gas-emissions](#) ▾

[Inventory of Greenhouse Gas Emissions and Sinks ... - EPA](#)

September 10, 2020 — View the 2001 Greenhouse Gas Inventory developed by the U.S. government to meet U.S. commitments under the United Nations ...

[enviro.epa.gov](#) > [acts](#) > [greenhouse gas](#) > [search](#) ▾

[Greenhouse Gas Search | Enviroacts | EPA](#)

0 - 23,000,000 metric tons CO₂e: Min: Max: Filter by status. Facilities are color coded to designate their verification and reporting status as of EPA's latest data ...

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EPA is promulgating a regulation to require reporting of greenhouse gas emissions from all sectors of the economy. The final rule applies to fossil fuel suppliers ...

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April 22, 2020 — This rating reflects vehicle tailpipe emissions of carbon dioxide (CO₂), the most prevalent greenhouse gas (GHG). The vehicles that score a 10 are ...

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[Global Non-CO₂ Greenhouse Gas Emission Projections ... - EPA](#)

May 18, 2020 — The report Global Non-CO2 **Greenhouse Gas** Emission Projections & Mitigation Potential: 2015-2050 provides emissions projections and ...

www.epa.gov > ghgreporting > subpart-rr-geologic-seq... ▾

Subpart RR – Geologic Sequestration of Carbon Dioxide - EPA

Finalizes revisions to specific provisions covering 29 subparts of the **Greenhouse Gas** Reporting Rule to streamline implementation, improve data quality, more ...

Searches related to greenhouse use effects OR greenhouse uses as
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greenhouse **gases** effect

greenhouse gas **emissions**

sources of greenhouse **gases**

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