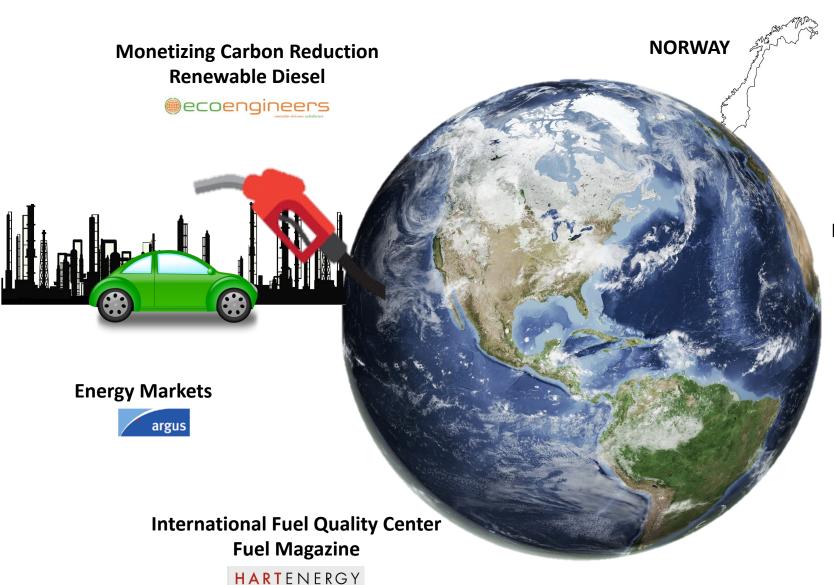




Kristine Klavers – Managing Director, Houston www.ecoengineers.us
January 5, 2023



About Kristine Klavers



MSc Chemical Engineering



Patent: Methane Coupling Catalyst



MTBE Product Specialist ARCO Chemical �

Refinery Design/HAZOP

JGC JGC CORPORATION



Presentation Topics

- 1. The road to "a zero-emission goal"
- 2. Carbon markets
- 3. Carbon Intensity (CI) and Life Cycle Analysis (LCA)
- 4. Experience from downstream



The road to zero carbon





- **Green Deal**
- Fit for 55
- SEC

2030/2050

2021/2022



2015

2018

The European Green Deal

2020

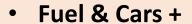


2014



2007





- **Bipartisan Infrastructure Law**
- **Inflation Reduction Act (IRA)**







OREGON

Oregon issues \$2.7M fine to electric charging company

by: The Associated Press Posted: Oct 3, 2022 / 10:01 AM PDT

> BioDiesel Scandal: EPA Claims Auditor Genscape Allowed 68MIn Fraudulent RIN Credits – DTN

January 6, 2017 By Todd Neeley DTN Staff Reporter

SEC Charges Goldman Sachs Asset

Management for Failing to Follow its

Policies and Procedures Involving ESG

Investments

FOR IMMEDIATE RELEASE 2022-209

Washington D.C., Nov. 22, 2022 — The Securities and Exchange Commission today charged Goldman Sachs Asset Management, L.P. (GSAM) for policies and procedures failures involving two mutual funds and one separately managed account strategy marketed as Environmental, Social, and Governance (ESG) investments. To settle the charges, GSAM agreed to pay a \$4 million penalty.

CER investigating potential \$1.5 million solar panel fraud

Australia's Clean Energy Regulator has this week executed search warrants on several residential and commercial addresses connected to a Perth-based solar PV retail and installation business as part of an investigation into a potential \$1.5 million solar panel fraud.

SEPTEMBER 16, 2022 DAVID CARROLL

Shell Loses Dutch Appeal Over Misleading Carbon Emission Ads

- Dutch authority queries extent carbon credits offset emissions
- Oil major says no question of deception in advertisements

By Diederik Baazil and Cagan Koc

October 21, 2022 at 7:55 AM CDT Updated on October 21, 2022 at



FOR IMMEDIATE RELEASE

Tuesday, October 20, 2020

Pennsylvania Biofuel Company and Owners Sentenced on Environmental and Tax Crime Convictions Arising out of Renewable Fuels Fraud

EPA Discovers More RIN Fraud

The U.S. Environmental Protection Agency said it has invalidated 33.5 million renewable-fuel credits sold by an Indiana company for biofuel it didn't produce, the fourth time the agency has alleged fraud in the program, Bloomberg News reported.

Knowing your CI throughout the supply chain is KEY!

Inflation Reduction Act (IRA)

- H₂ Production Tax Credit
 - \$0.60/kg+ depending on lifecycle GHGs
- Clean Electricity Investment Tax Credit
 - GHG to be 25% lower than 2022
- Clean Fuel Production Credit
 - Fuels with less than 50 kg CO₂e/ mmBtu
- Sustainable Aviation Fuel Credit
 - Up to \$0.50/gallon depending on lifecycle GHG

ExxonMobil's GHG reduction plan

- Corporatewide
 - 20-30% reduction in CI
- Upstream
 - GH40-50% reduction in CI
- Methane
 - 70-80% reduction in methane intensity
- Flaring
 - 60-70% reduction in flaring intensity





Regulated by region or state

- Mandated
- Cap-and-Trade regulations
- Credits
 - US Renewable Fuel Standard (RFS)
 - California Low Carbon Fuel Standard (LCFS)

Government managed

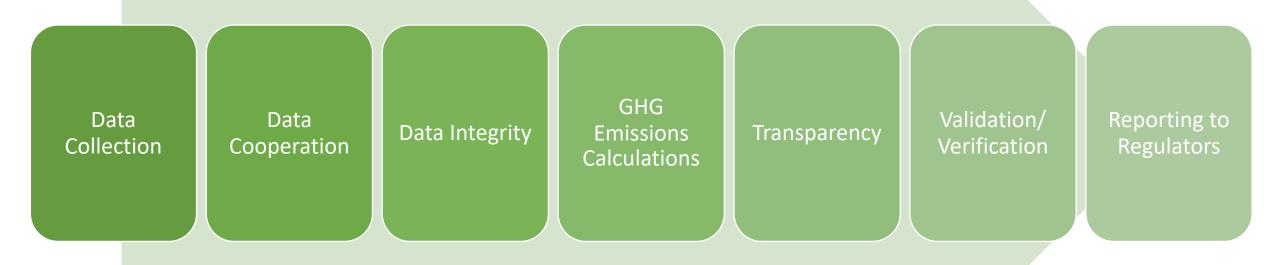
Voluntary between businesses

- Optional
- Offsets available for purchase
 - Reforestation
 - Renewable energy
 - Methane capture/combustion

Registry managed



Transparency, disclosures & verification increasingly important

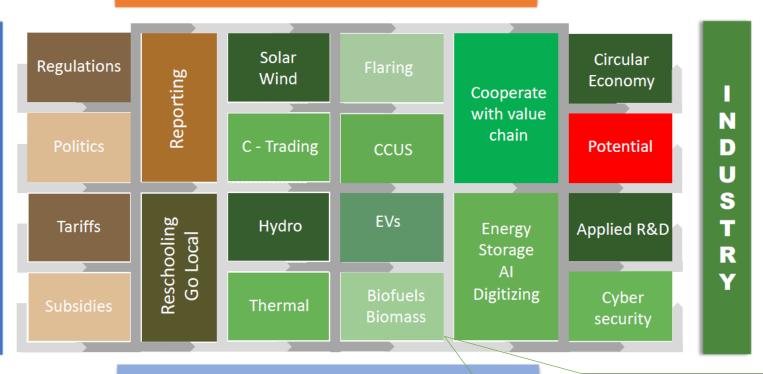




Politics & regulations driving the industry

INVESTORS

G O V E R N M E N T



PUBLIC & ACTIVISTS

Biofuels Biomass



Refiners turning into carbon reducers

Federal RFS Renewable Fuels Standard Volume Driven

State LCFS
Low Carbon Fuels Standard
Carbon Driven

Quarterly Reporting

Biointermediate

UCO

SREs

RIN Generation Protocol

Retirement

Q-RIN

CDX

COI Cellulosic

EMTS

QAP

79 Registration

Third Party Engineering Review

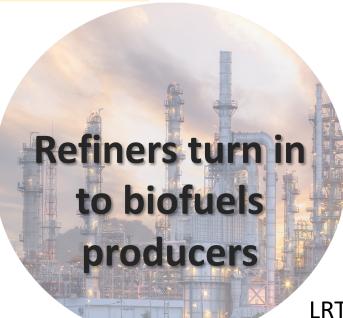
USEPA

40CFR Part 80

Import/Export documentation

D3, D4, D5, D6, D7

Annual Reporting



Compliance Recordkeeping/Monitoring Plan

RCO

) Validation

CI

Life Cycle Analysis

AFP

CA-GREET 3.0 Model

Verification

Deadlines

Temporary Pathway

LRT-CBTS

Fuel Pathway Code

Tier 1 and Tier 2 Pathways



Monetize Your Renewable Diesel

LCFS

\$0.40 for 40 CI

D4 & D5

\$2.80

Energy Value + \$4.45 per gallon

Cap-and- Trade costs at the rack (CAR)

Approx. \$0.25

Blender's Tax (BTC)

\$1



^{*} Prices are per gallon

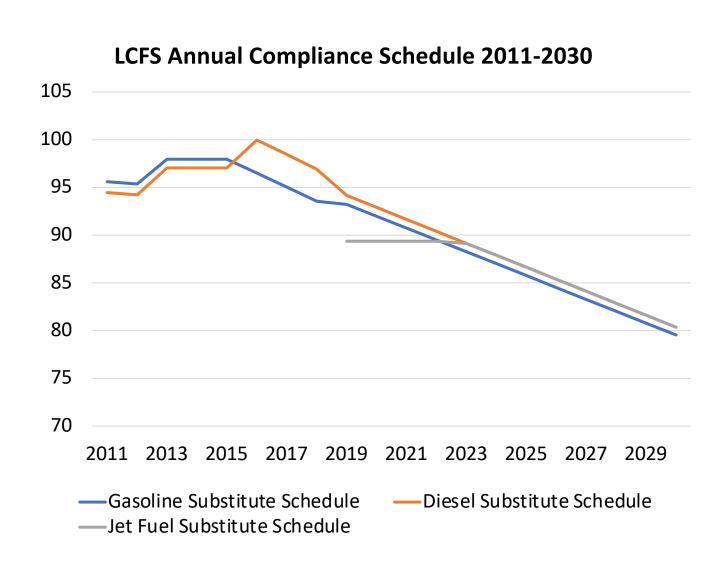
US Renewable Fuel Standard Title 40, Chapter I, Subchapter C, Part 80

D-RINs	Fuel	GHG reductions *compared to 2005 baseline	RVO target billion gallons *2022	Pathways examples Product-Feedstock-Process	RIN price per RIN
D6	Corn ethanolGrandfathered	20%	15	Ethanol-corn starch-dry mill	\$0.80-1.80
D4 D5	Sugarcane ethanolRenewable dieselBiodiesel	50%	5	Renewable diesel-soybean- hydrotreating Naphtha-camelina- transesterification	\$1.20-2.00
D3 D7	Cellulosic fuelsRNG/LNG	60%	0.63 No target is set yet	RNG-dairy-aerobic digestion	\$2.50-3.50



CARB LCFS Title 17, CCR, sections 95480-95503

- Reduce GHG Emissions by 20% by 2030
- Reduce petroleum dependency
- Incentivize the development of low carbon fuels based on CI score
 - Performance-based: Credit or Deficit
 - Fuel neutral: No fuel typespecific goals

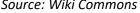




What is the Life-Cycle-Analysis (LCA)?

- Assess the environmental aspects and potential impacts associated with a product, process, or services.
- Consistent LCA methodologies help:
 - Compare technologies
 - Identify drivers for environmental improvements
- Minimum requirements for reliability:
 - The entire supply chain
 - Objectivity
 - Mass and energy balances
 - Co-product methods
 - Functional units







GREET covers many groups of energy systems

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Petroleum Sector Conventional oil Shale oil Oil sands	 Gasoline Diesel Jet fuel LPG Naphtha Residual Oil 	 Electric System Electricity generation at US plant level Aggregate to national, NERC and state level With CCS 	 Natural gas Coal Residual Oil Biomass Nuclear Hydro Wind Solar
NG Sector Conversational NG Shale gas	 NG end use in electric, industrial and residential sectors Transportation: CNG, LNG Alt fuels: LPG, MeOH, DME, FT diesel, FT jet 	Renewable Energy/Fuels Ethanol Biodiesel Renewable Diesel Renewable Gasoline Renewable jet fuel Renewable NG	 1st generation feedstock Corn, Sorghum, Soybeans Rapeseed, Sugarcane 2nd Generation feedstocks Crop and Forest residues MSW, Animal Wastes Algae
Hydrogen EconomyGaseous H2Liquid H2With CCS	 Natural gas Biomass Coal Petroleum coke Coke Oven gas Electrolysis with electricity Nuclear energy 	Renewable H2 via electrolysis Wind Solar Nuclear	Electro Fuels Gasoline Diesel Jet fuel Methanol

Source: DOE

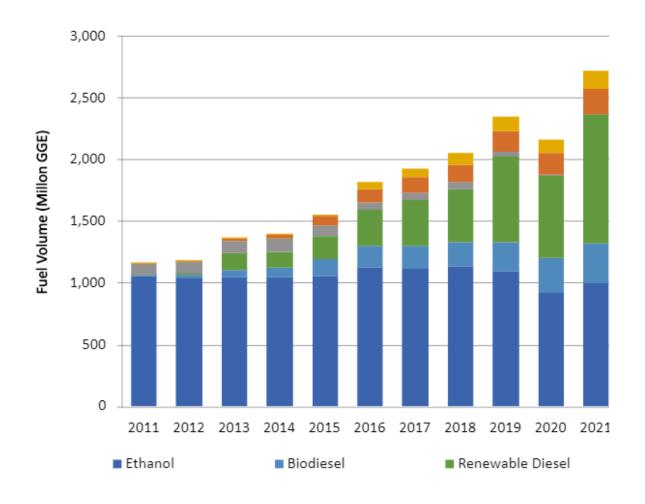


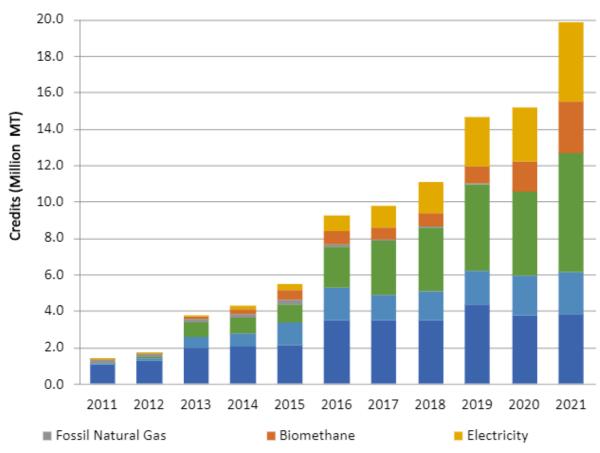
Determine your CI score through LCA

Feedstock	CI g/CO2e/MJ					
Gasoline	100.82					
Diesel	100.45					
Fossil NG	79.21					
Used Cooking Oil Biodiesel	8.63	30.15				
Oil (soy, corn) Biodiesel	29.42	61.94				
Ethanol	7.18	80.85				
CNG (dairy manure, landfill gas)	-408.6	52.64				
Hydrogen	-35	-170				
Electricity	-762.09	108.43				



Advanced Renewables Increase Volume, Decrease Cl





Source: CARB

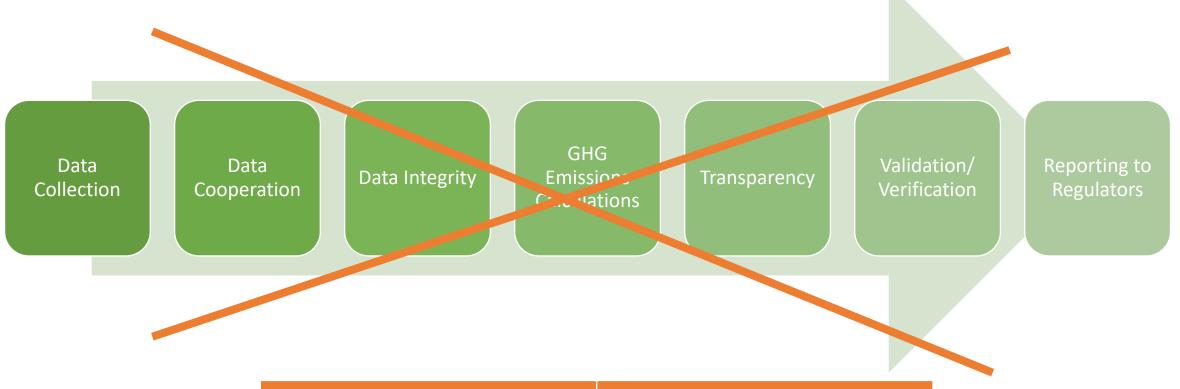


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1,912,460 | 0 | 711,660
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5,619,390 | | 6,109,930
11,729,320 | | | 5,756,720
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 | 0 | 280,350 | 6,438,050 | 6,203,430
 | 514,970 | 280,350 | 6,438,050 | 6,438,050 | 36,419,190 | 5,203,430 | 6,203,430 | 36,262,670
 | 0 | 514,970 | 40,120 | 700,860 | 700,860 |
| 2020 JUL | 0 | 0 | 0 1,100,6 |
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 | 0 | 0 | | 3,558,700 | | 0 |
 | 3,558,700 | 514,970 | 2,230,340 | 2,745,310
 | 0 | | | | 42,208,230 | | |
 | 0 | 724,700 | 55,480 | 599,510 | |
| 2020 AUG
2020 SEP | 0 | 1.782.390 | 0 1,100,6
1,782,390 2,883,0 |
 | 0 1.157.950 | 1,157,950 | 1,459,140
2.617.090 | 0
 | 0 | 624.440 | | 5,222,920 | 1,399,740 | 16,300 | 171,240
 | 5,222,920 | 0 | 2,852,770 | 2.852.770
 | 0 | | 3,666,360 | ********** | 47,431,150
53,311,110 | | |
 | 16,300 | 171,240
624,440 | 43,260
18,850 | 574,740
626,000 | |
| 2020 OCT | 624,440 | 5,133,890 | 5,133,890 8,016,9 | 70 5,197,1
 | 0 5,197,170 | 5,197,170 | 7,814,260 | 0
 | 0 | 561,160 | 0 | 963,810 | | 0 | 0
 | 6,097,700 | 0 | 0 | 0
 | 0 | 624,440 | 6,097,700 | 6,097,700 | 59,408,810 | 5,160,980 | 6,160,980 | 59,189,800
 | 0 | 561,160 | 50,690 | 680,420 | 680,420 |
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2020 DEC | | | 9,998,200 12,881,2
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 | | 10,117,840 | | 0
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35,220 | 503,740
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| 2020 DEC
2021 JAN | | 6,028,460 | |
 | | 6,287,080 | | 0
 | 0 | 288,990 | 0 | 0 | 0 | 0 | 0
 | 6,028,460 | 0 | 0 | 0
 | 0 | | | 6,028,460 | 70,427,640 | | |
 | 0 | 288,990 | 31,630 | 656,500 | |
| 2021 FEB | 288,990 | 4,559,410 | 10,587,870 29,623,6 | 70 4,610,13
 | 0 4,610,130 | 10,897,210 | 29,743,850 | 0
 | | 238,270 | 0 | 0 | 0 | 0 | 0
 | 4,559,410 | 0 | 0 | 0
 | 0 | 288,990 | 4,559,410 | *********** | 81,015,510 | 4,610,130 | ********** | 81,119,390
 | 0 | 238,270 | 38,410 | 477,930 | 1,134,430 |
| 2021 MAR
2021 APR | 238,270
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23,410,330 42,446,3 |
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 | 6,653,070 | 0 | 0 | 0
 | 0 | 238,270 | 6,653,070 | ********** | 93,837,970 | | |
 | 0 | 482,610
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34,110 | 655,440
653,310 | |
| 2021 APR
2021 MAY | | | 29,215,960 48,251,7 |
 | | 29,443,350 | | 0
 | 0 | 320,220 | 0 | 0 | 0 | 0 | 0
 | 5,805,630 | 0 | 0 | 0
 | 0 | 410,100 | 5,805,630 | | 99,643,600 | | |
 | 0 | 320,220 | 34,650 | 626,720 | |
| 2021 JUN | | | 34,260,670 53,296,4 |
 | | 34,360,300 | | 0
 | 0 | 447,980 | 0 | 0 | 0 | 0 |
 | 5,044,710 | 0 | 0 | 0
 | 0 | , | | | 104,688,310 | | |
 | 0 | 447,980 | 59,540 | 475,260 | 3,545,160 |
| 2021 JUL
2021 AUG | | | 41,600,630 60,636,4
48,392,770 67,428,5 |
 | | 41,911,920 | | 0
 | 0 | 236,320
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 | 0 | | | ************ | 112,028,270 | | |
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674,830 | |
| 2021 AUG
2021 SEP | | | 54,377,440 73,413,2 |
 | | 54,288,310 | | 0
 | 0 | 636,740 | 0 | 0 | 0 | 0 | 0
 | 5,984,670 | 0 | 0 | 0
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 | 0 | 636,740 | 54,200 | 610,490 | |
| 2021 OCT | 636,740 | 5,924,710 | 60,302,150 79,337,9 | 50 6,145,68
 | 0 6,145,680 | 60,433,990 | 79,280,630 | 0
 | 0 | 415,770 | 0 | 0 | 0 | 0 |
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 | 0 | 636,740 | 5,924,710 | ************ | 130,729,790 | 5,145,680 | *************************************** | 30,656,170
 | 0 | 415,770 | 35,510 | 628,780 | 6,261,060 |
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Non-Compliance leads to project and financial risks



Regulated Market	Voluntary Market
Invalid RINs or Credits	Reduced price
Financial penalties	



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