

# Benefits of NAEM Community

Conferences



Research



Networking



Publications



Actionable Strategies that Empower Corporate EHS&S Leaders to Make an Impact



# A diverse community for EHS&S leaders









































































































































































































# Today's Speakers



**Daniel McDermott,**Senior Consultant; Huco
Consulting Inc.



**David Cox**, Founder; Firmographs LLC

Have a question?

Type it into the chat box in the lower right-hand corner.



The Solution "off the shelf" tools

# **Qlik**



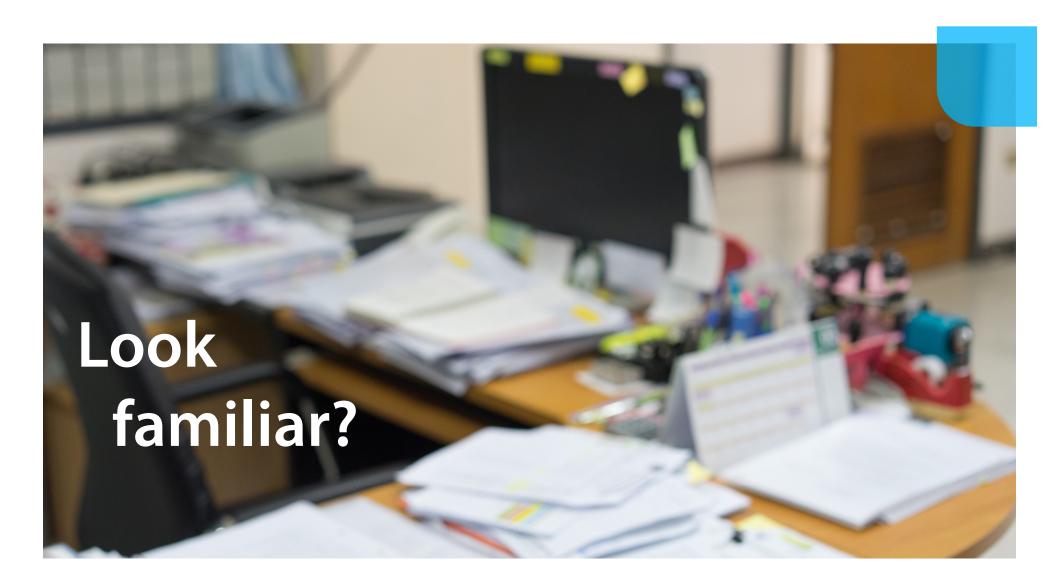
# **Tableau**



### **Power BI**



# Demonstration



#### Polling Question

Q1: Do you, or does your organization currently use BI tools for EHS purposes?



# A **Subpart-W** A Case Study







# Other EHS&S Reporting Types this could apply to:

#### Regulatory Submittals

- •TRI / FormR
- •RCRA Hazardous Waste Biennial
- •NPDES DMR
- •OSHA Form 300/301 (in flux)
- •State, Regional, and City Reporting

#### Voluntary Submittals

- •Carbon Disclosure Project (CDP)
- •Global Reporting Initiative (GRI)
- •Industry-Specific Reporting

#### **Background on Reporting**

2006

ISO 14064 Standards published providing integrated requirements for reporting.

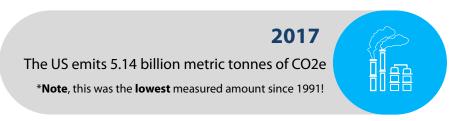


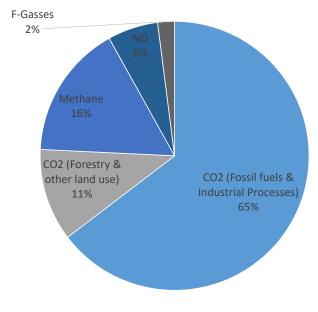
Global Greenhouse Gas Emissions by Gas (EPA)

2010

GHG reporting required by law in the US for top 85% of emitters









# Reporting Challenges

Reports must be prepared correctly! Wrong reports:

- Waste time
- Increase legal risk
- Impact stock/ company value
- Harm reputation

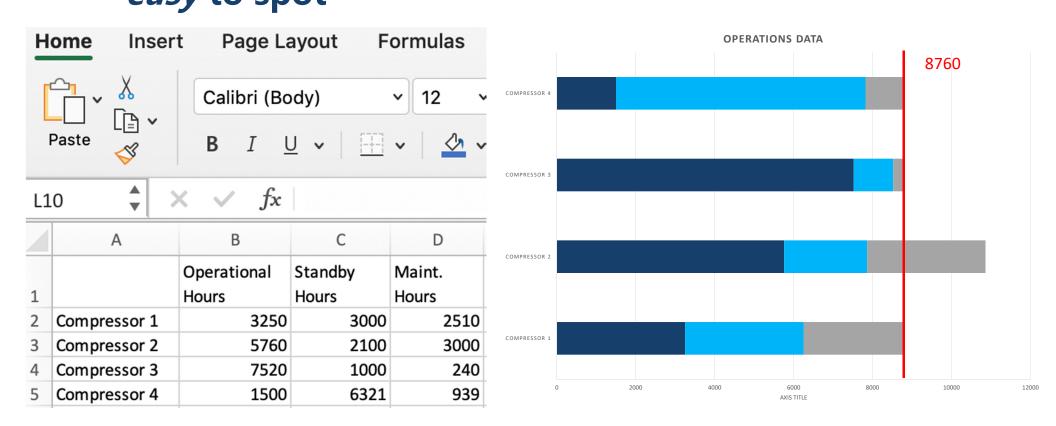


# Data Collection Challenges

Process for calculations may be complex:

- Time averaging
- UOM handling
- Change management
- Calculations
- Special Formats

# Obvious Errors *easy* to spot



Total Operating

Hours

Compressor Runtime

(Hours)

Maintenance Time

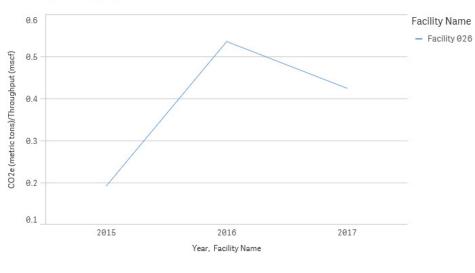
(Hours)

#### Source Type Data Type Year Data Value **Remember Joe?** Amine Units CO2e (metric tons) 2016 Amine Units CO2e (metric tons) 2017 5389.151169 Amine Units CO2e (metric tons) 2016 9110.902723 Unit 1 CO2e (metric tons) 2017 10155.77519 Amine Units AMN AGR Unit 2 2016 6073.935149 Facility 026 Amine Units CO2e (metric tons) Facility 026 Facility Throughputs Facility Throughput (mscf) 72366000 Facility Throughputs Facility 026 Facility Throughputs Facility Throughputs Facility Throughput (mscf) 72603000 Facility 026 Facility Throughputs Facility Throughputs Facility Throughput (mscf) 2017 87512997 Facility 026 BLWDWN Residue Gas Blowdowns Blowdown Systems CO2e (metric tons) 2016 664.8499253 Facility 026 BLWDWN\_Residue Gas Blowdowns Blowdown Systems CO2e (metric tons) 2017 290.6212842 Facility 026 DEHY 3 Glycol Dehydrators CO2e (metric tons) 2015 217.9 Facility 026 DEHY 3 Glycol Dehydrators CO2e (metric tons) 2017 1572.401589 Facility 026 DEHY 1 Glycol Dehydrators CO2e (metric tons) 2016 345.8 DEHY 1 372.215441 Facility 026 Glycol Dehydrators CO2e (metric tons) 2017 Facility 026 DEHY 2 Glycol Dehydrators CO2e (metric tons) 2016 Facility 026 DEHY 2 Glycol Dehydrators CO2e (metric tons) 2017 181.179323 Facility 026 Desiccant Dehydrators DSCNT DEHY DET-16.02A, B CO2e (metric tons) 2015 Facility 026 DSCNT DEHY DET-16.02A, B Desiccant Dehydrators CO2e (metric tons) 2016 Facility 026 DSCNT DEHY\_DET-16.02A, B Desiccant Dehydrators CO2e (metric tons) 2017 0 0 Facility 026 DSCNT DEHY DET-16.02B Desiccant Dehydrators CO2e (metric tons) 2015 DSCNT DEHY DET-16.02B 0 Facility 026 Desiccant Dehydrators CO2e (metric tons) 2016 0 Facility 026 DSCNT DEHY DET-16.02B Desiccant Dehydrators CO2e (metric tons) 2017 0 Facility 026 DSCNT DEHY NT-442 Desiccant Dehydrators CO2e (metric tons) 2015 0 Facility 026 DSCNT DEHY NT-442 Desiccant Dehydrators CO2e (metric tons) 2016 DSCNT DEHY\_NT-442 Desiccant Dehydrators 0 Facility 026 CO2e (metric tons) 2017 Facility 026 DSCNT DEHY NT-443 Desiccant Dehydrators CO2e (metric tons) 2015 0 Facility 026 DSCNT DEHY NT-443 Desiccant Dehydrators CO2e (metric tons) 2016 0 Desiccant Dehydrators Facility 026 DSCNT DEHY NT-443 CO2e (metric tons) 2017 0 0 Facility 026 DSCNT DEHY NT-444 Desiccant Dehydrators CO2e (metric tons) 2015 Facility 026 DSCNT DEHY NT-444 Desiccant Dehydrators CO2e (metric tons) 2016 0 DSCNT DEHY NT-444 0 Facility 026 Desiccant Dehydrators CO2e (metric tons) 2017 Facility 026 FLARE TO Flares CO2e (metric tons) 2016 0 Facility 026 FLARE TO Flares CO2e (metric tons) 2017 636.0468368 Facility 026 FLARE Flare 2015 793 4718495 Flares CO2e (metric tons) Flares 58.0598349 Facility 026 FLARE Flare CO2e (metric tons) 2016 Facility 026 FLARE Flare Flares CO2e (metric tons) Facility 026 FLARE TO Flares CO2e (metric tons) 2016 15642.41269 FLARE TO Facility 026 Flares CO2e (metric tons) 2017 3430.164698 Facility 026 Gas Leaks Equipment Leaks CO2e (metric tons) 2016 40.13529824 Facility 026 Gas Leaks Equipment Leaks CO2e (metric tons) 2017 177.0721207 Facility 026 RECIP C-1000 Residue Reciprocating Compressors CO2e (metric tons) 2015 1481.649263 RECIP C-1000 Residue Facility 026 Reciprocating Compressors CO2e (metric tons) 2016 617.4699842 RECIP C-1000 Residue 2017 362.170104 Facility 026 Reciprocating Compressors | CO2e (metric tons) RECIP C-1100 Rev 2015 630 25/13/5

#### Resolution

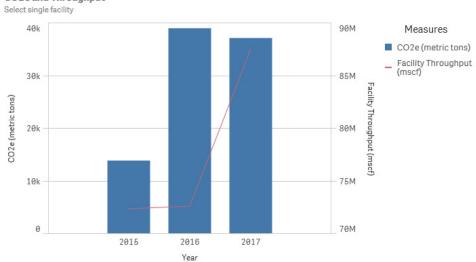
Joe setup visualizations to look at source data **before** it gets entered into their calculation engine.

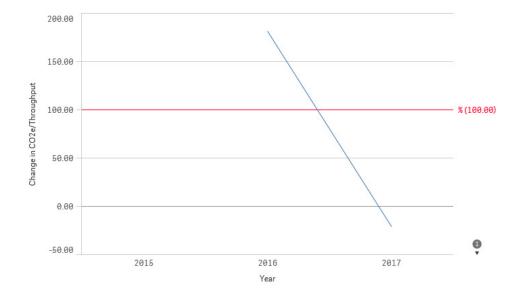
#### Facility Throughputs



Q Facility Name	Q. Year	Change in CO2e/Throughput (%)	Facility Throughput (mscf)	CO2e (metric tons)	Change in CO2e/Throughput (1)
Totals			-	-	-
Facility 026	2015	-	72,366,000	13,807.53	-
Facility 026	2016	181.05	72,603,000	38,932.52	-
Facility 026	2017	-20.99	87,512,997	37,079.03	-

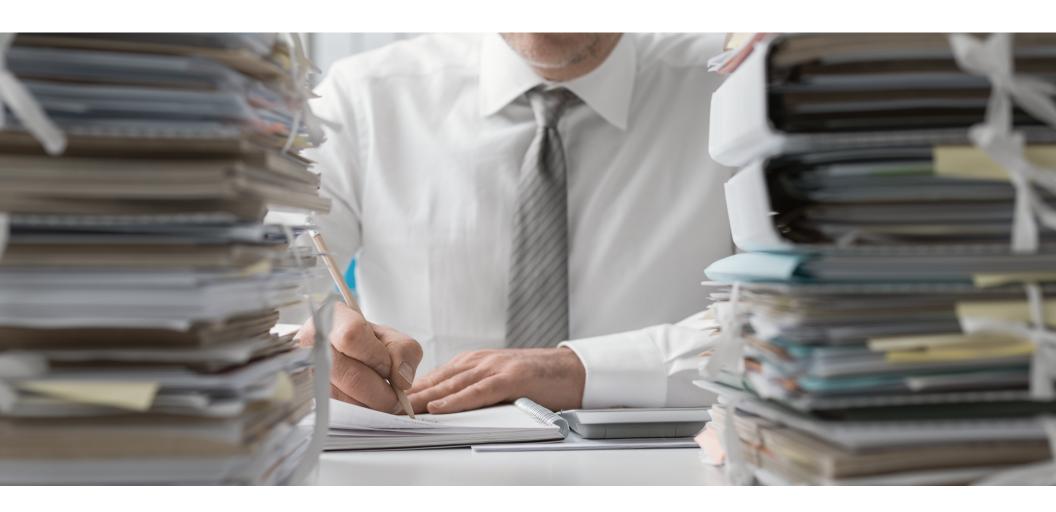
#### CO2e and Throughput





## Polling Question

Q2: Have you experienced resubmitting regulatory reports?



#### Questions

#### Any questions? Ask through the Adobe Connect window!



# Innovative Approach to Research Publications



**Velocity**EHS

- Environmental Risk Auditing
- Sustainability in the Supply Chain
- Comparing Notes on EHS Training Programs
- EHS Compliance Metrics
- Ready, Set, Implement: How to Successfully Deploy an EHS&S Software System
- Planning for a Sustainable Future

Updating NAEM's Staffing, Structure & Budgets Report

Survey Completion Needed this Summer!



# **Great Webinars Every Few Weeks!**

#### March 7



2019 EHS&S Salary Survey Results

#### March 21



Achieve Results with your ESG Reporting

## April 10



Top Reasons Companies are Considering Replacing their EHS&S Software

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www.naem.org

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# Thank you for Attending!

 A recording will be available in 1-2 days. You will receive an email once it's posted to our site.

Have a safe & great day!

