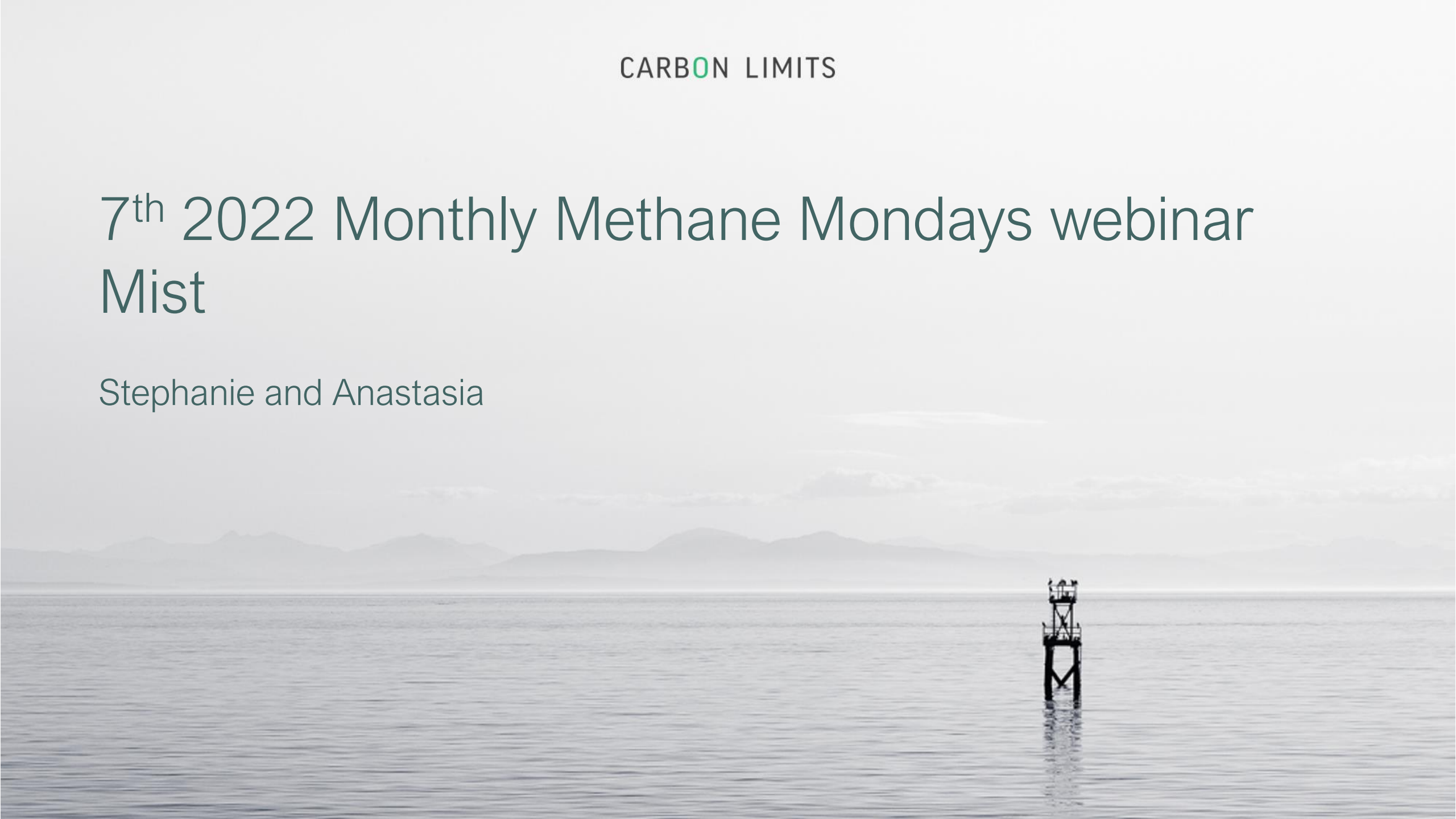


CARBON LIMITS

7th 2022 Monthly Methane Mondays webinar Mist

Stephanie and Anastasia



Mist – What is it?



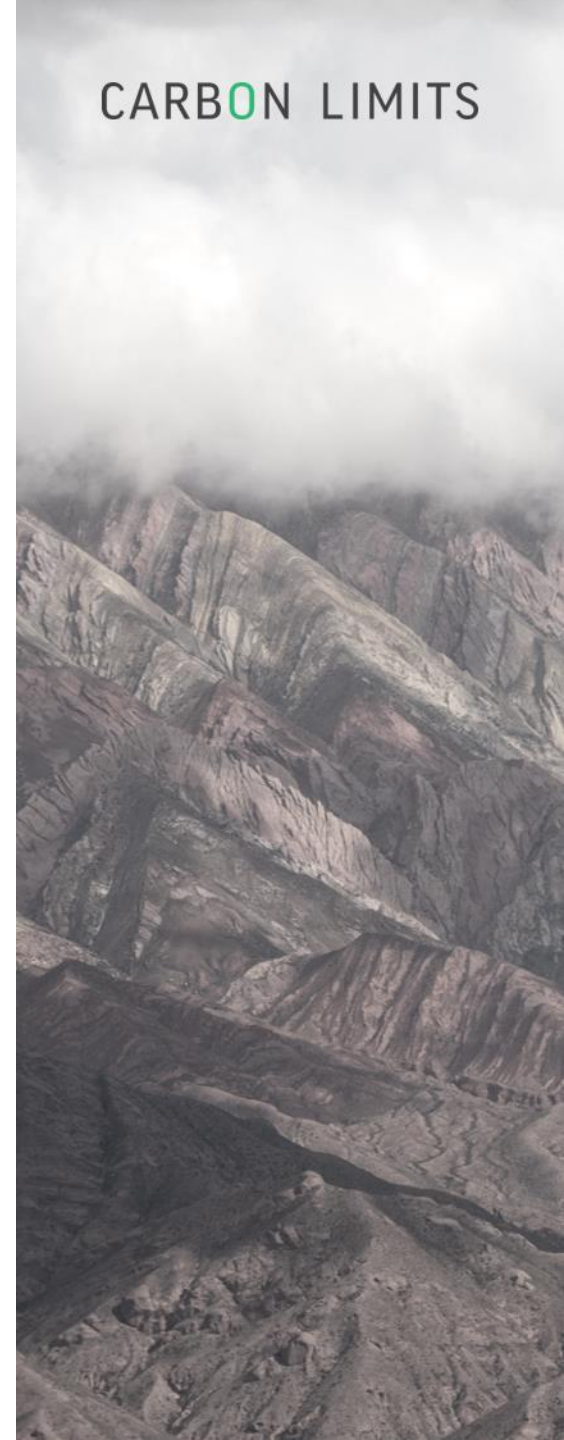
A step-by-step methane inventory and abatement tool



Targeted for the oil and gas sector

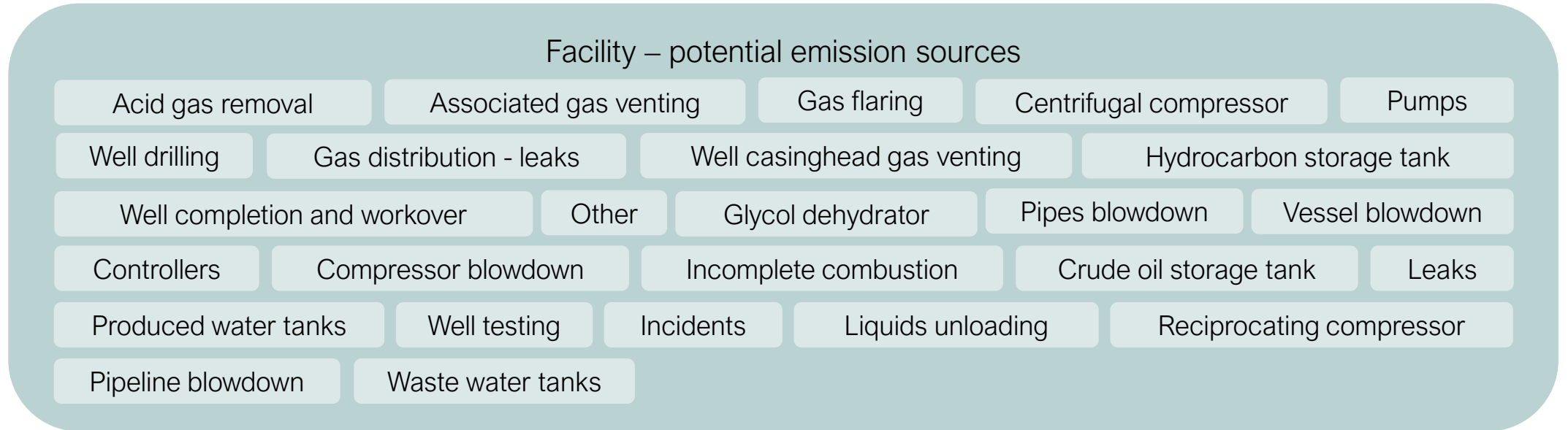


Key objective – Understand where your emissions are coming from to be able to address them



What does Mist do?

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Emissions



Data quality



Abatement potential



Abatement cost



Different levels of data input and quality of output

Example – Centrifugal compressors

Mist allows to estimate emissions and abatement potential with the data available. The software automatically update the calculation as soon as the user provides more detailed information



Red – Level 3 in OGMP

Minimal data is required

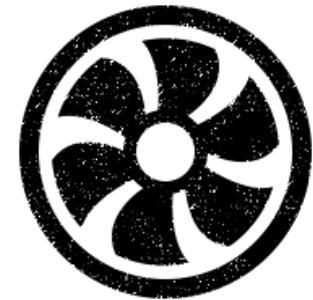
Number and size of compressors



Orange – Level 3 in OGMP

More detailed data is required

Number of hours of operation, mitigation in place, ...



Green – Level 4 in OGMP

Measurement/engineering calc data is required

Measured emissions of compressor in operation

What does Mist have to do with this?

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Methane inventory systematic tool – for the oil and gas sector



What are the total emission and abatement potential in my company?

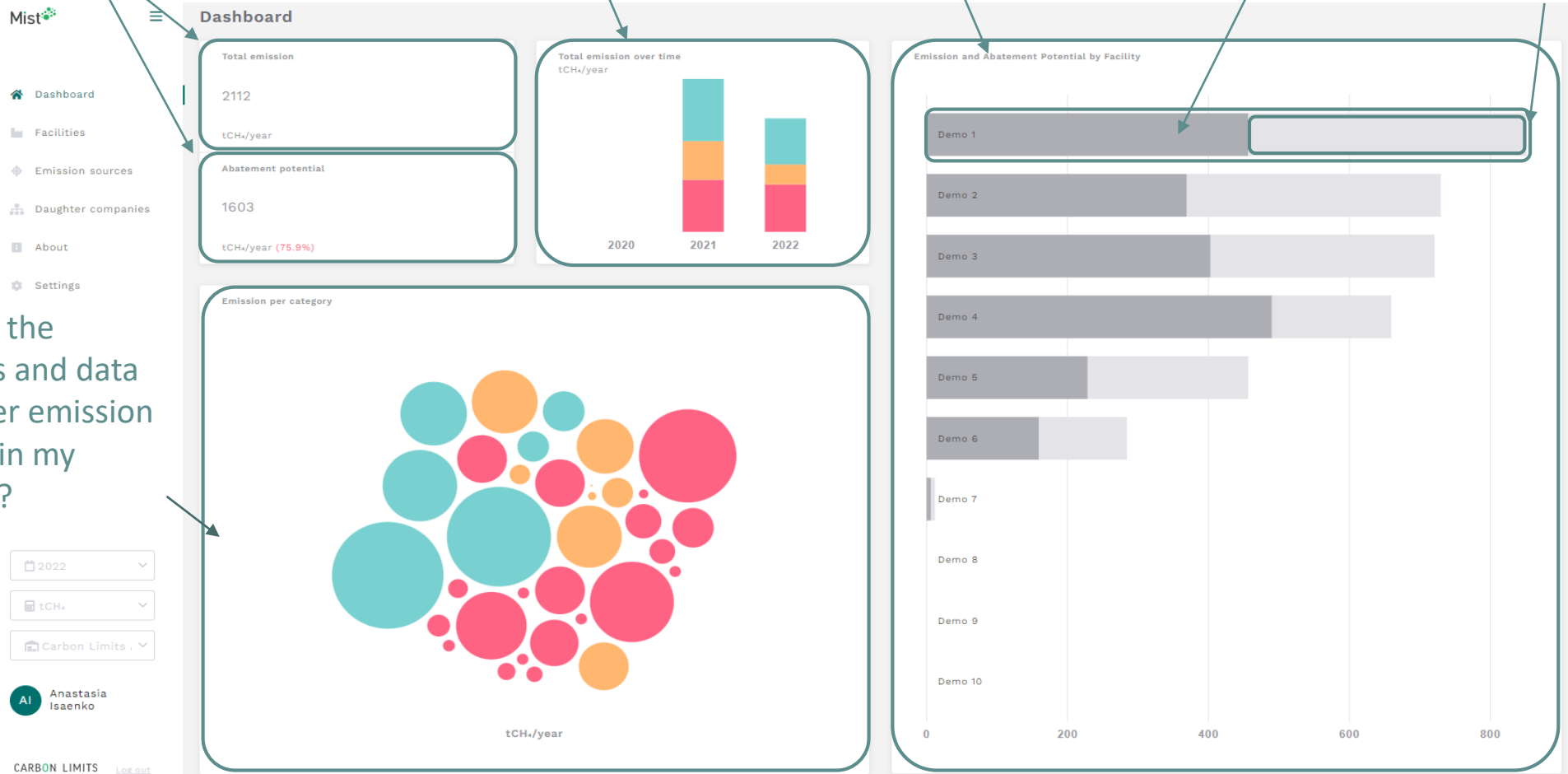
How do emission in my company change over time?

Overview of emissions in the company per facility

Total emissions

Abatement potential

What are the emissions and data quality per emission category in my company?



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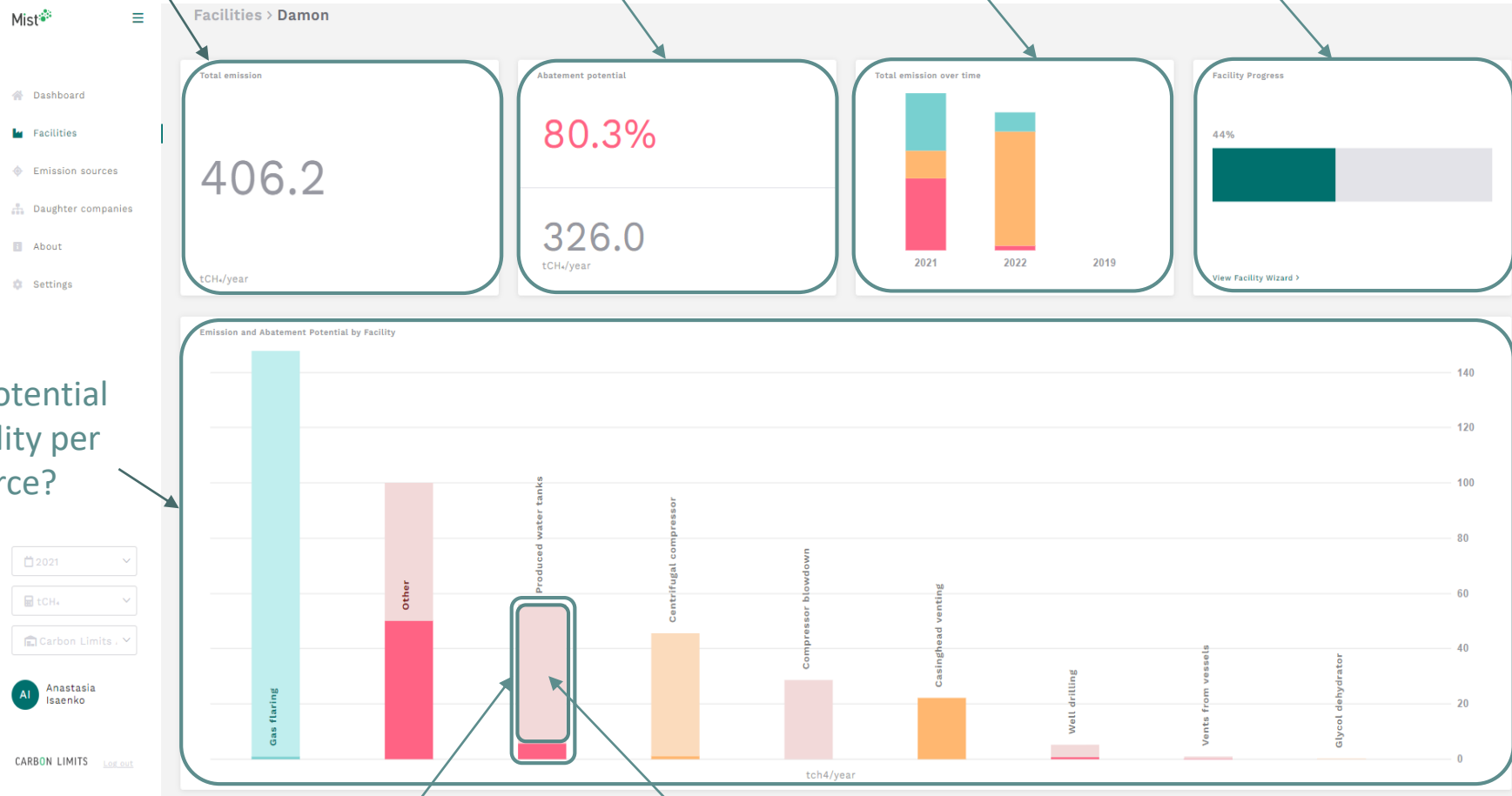
What are the emissions in my facility?

What is the abatement potential in my facility?

How do the emissions and data quality change over time?

What is the progress with entering minimum required data?

What are the emissions, abatement potential and data quality per emission source?



Total emissions per emission category

Abatement potential per emission category

The wiki – a perfect companion to Mist

A step-by-step user guide for the software

How to create a facility

Created by Paula Macias
Sep 13, 2021 • 3 min read

Step 1
Click on "Facilities"

Step 2

Full transparency on all the default values used and information sources

Default emission factors & assumptions

Compressor Size Range & Type of seal	1 MW - 10 MW	10 MW - 15 MW	>15 MW	Unit
Wet Seal	10	20	35	cfm/compressor
Dry Seal	1.0	3.0	6.0	cfm/compressor
Dry Seal with Nitrogen Loop	0.2	0.6	1.2	cfm/compressor

A structured documentation for each emission source with key information

Mist - Methane Invento... / User Guide / Estimate emissions for a facility

Share

Glycol Dehydrator

Created by Malavika Venugopal
Last updated: Sep 10, 2021 • 2 min read

Short description	Industry segment	Minimum required data input
Glycol dehydrators remove water from an incoming wet natural gas stream using monoethylene glycol, diethylene glycol, or, most commonly, triethylene glycol (TEG). "Lean," or dry, glycol is pumped via a pneumatic or electric pump to a gas contactor where it mixes with the natural gas stream. The glycol absorbs water from the gas stream, in addition to lesser amounts of methane, volatile organic compounds (VOCs), and hazardous air pollutants (HAPs), producing dry gas and "rich," or wet, glycol. <i>Source: Adapted from OGMP</i>	<ul style="list-style-type: none"> Oil (and associated gas) production Natural gas (non associated gas) production Gas treatment and/or processing Gas transmission Gas storage 	<ul style="list-style-type: none"> Unit for volume of natural gas treated Unit for frequency of natural gas treatment

Constantly updated and completed – 660 pages to date



Mist is a powerful tool for understanding the issue and start acting on it

Next year – focus on Mid and Downstream – do you want to be part of it?

Visit us at <https://www.mist.carbonlimits.no/>

