Disclaimer

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Delivering Safe, Sustainable and Affordable Energy

ENERGY TRANSITION COMPANY

REDUCE COSTS AND EMISSIONS FROM O&G PRODUCTION

DEVELOP COMPETITIVE RENEWABLE ENERGY LIFECYCLE SOLUTIONS

VALUE PLATFORMS

OCEAN INFRASTRUCTURE

- Strong backlog
- On-time delivery & reliable operations
- Emissions reduction

TRANSITION

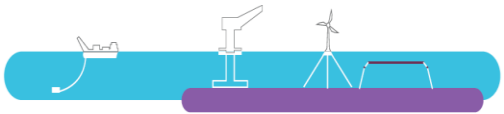
emissionZERO®

NEW ENERGIES

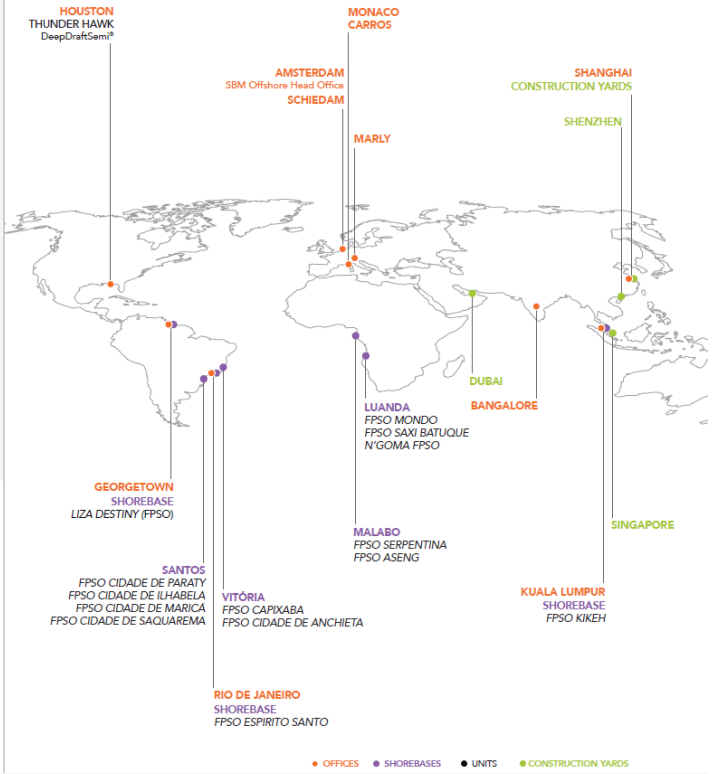
FAW FLOAT4WIND

- Digital services

SBM OFFSHORE ACTIVITIES



CALM Buoy	Catenary Anchor Leg Mooring Buoy	**TLU**	Tower Loading Unit
FOW	Floating Offshore Wind	**TMS**	Turret Mooring System
FPSO	Floating Production Storage and Offloading	**WEC**	Wave Energy Convertor



SBM OFFSHORE

ENERGY. COMMITTED.

SMART OPERATIONS

DELFI | ProcessOps

Process live for Acid removal Membranes

2022

Edson Teixeira Júnior
Gas Processing Process Engineer

Jean-Damien ROLLIER
Digital Factory Manager

SBM OFFSHORE
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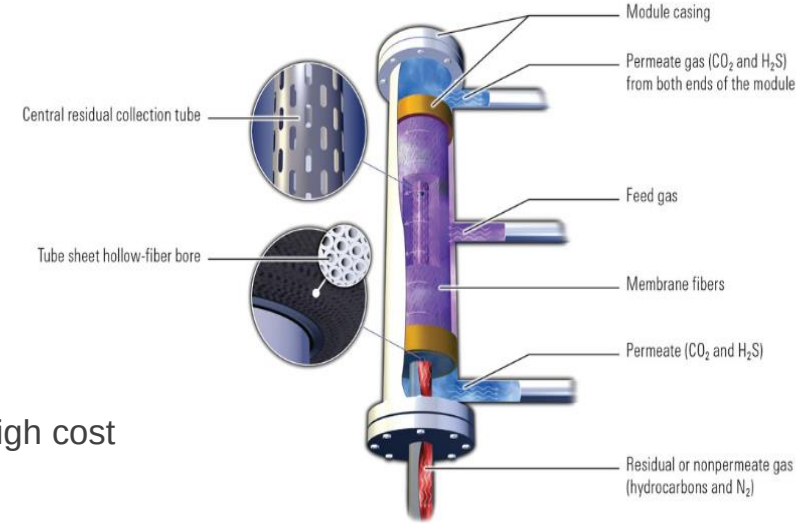
CO2 Removal Membranes - Challenges

- **Advanced Technology**
  - Cidade de Paraty FPSO was Pioneer on 30” Membranes.
- **System Monitoring**
  - Numerous heterogeneous parameters
  - Complex modeling
- **Main challenges to be adressed**:
  - Is the performance as expected?
  - How is the integrity status of the membranes?
  - How to Predict process analysis and prediction;
  - How to optimize capex considering the membranes high cost
  - Replacement X Deployment Strategy;
  - How aging of the field impacts on the capacity.



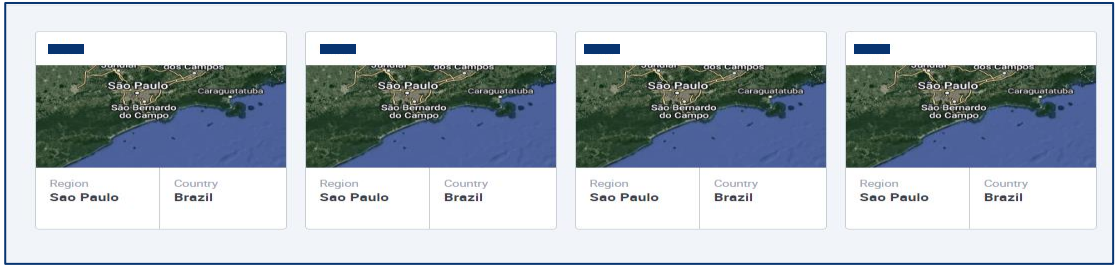
User Experience

Fleet View

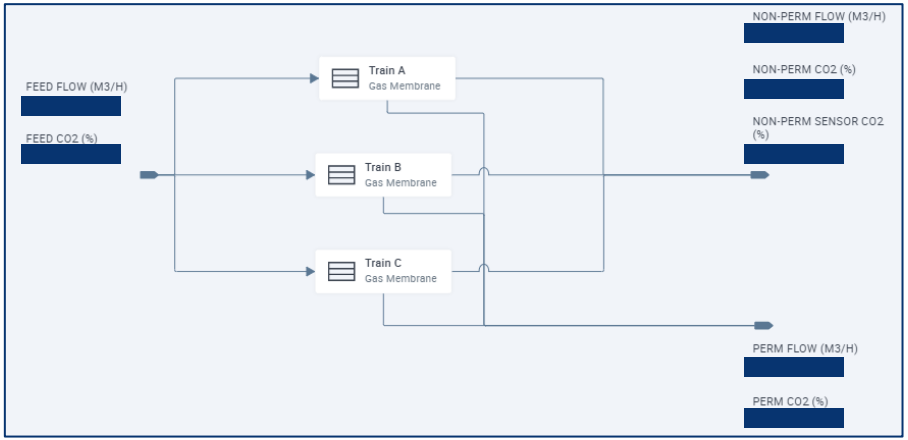
- 4 Units monitored
- Current conditions

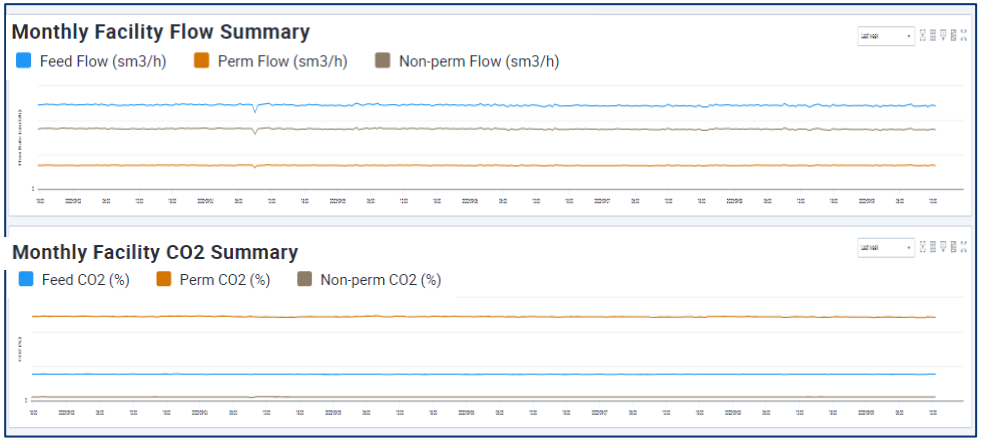
  10%-20% CO_2

  Gas Flowrate 150-250 ksm^3/h



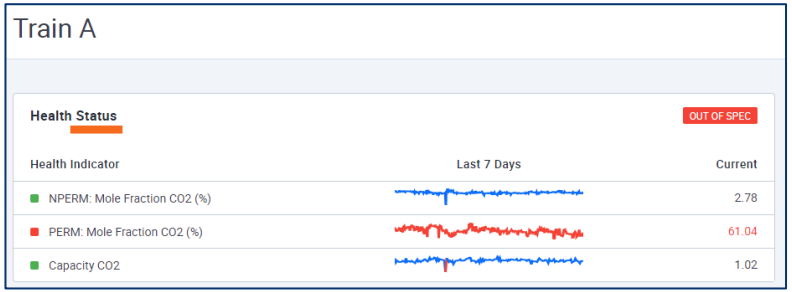
Quick & easy access to **system configuration and main parameters + trends**





Monitoring & Analytics

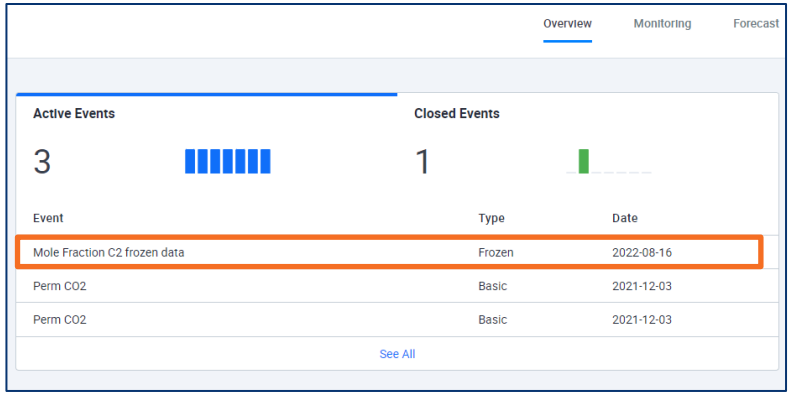
Health Indicators



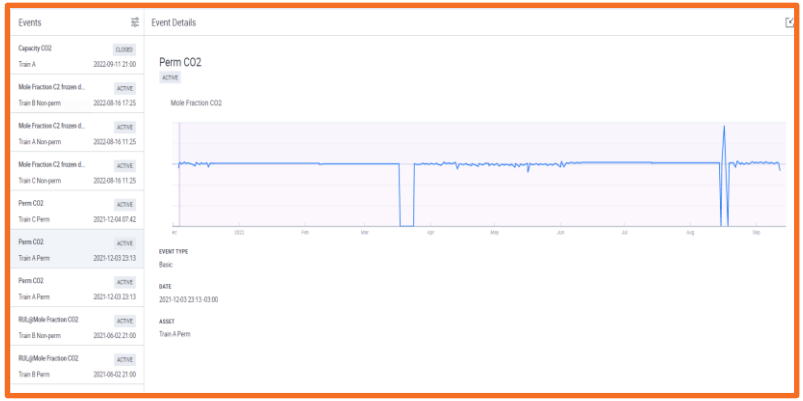
- Ease troubleshooting to improve reactivity

- Prediction of Remaining Usefull Life

Active and Historical **Events**



- Full event detail at a glance



Advanced Functionalities

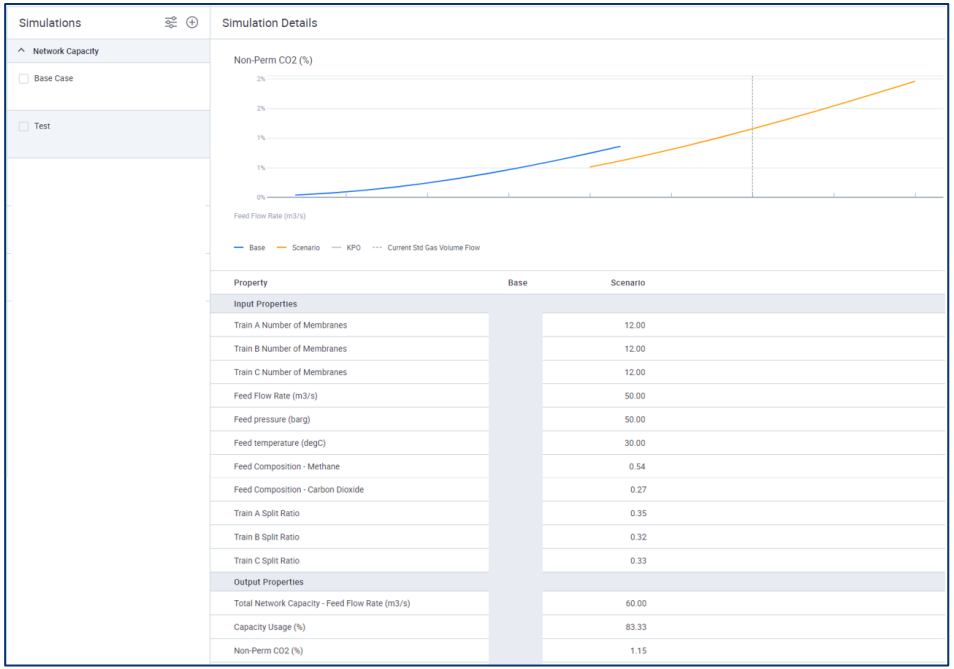
Extra tools Deployed on Process Live

- Scenarios Simulation
- Monthly Reports
- Live discussions / support
- Events Notification

Scenario Simulation

Address Optimizations and do sense check on process variables and configuration impacts

- Input variables:
  - Inlet Temperature
  - Inlet Pressure
  - Feed flow rate
  - Feed composition
  - Number of membranes
  - Train Split Ratio
- Simulation ouputs:
  - Total Network Capacity
  - Capacity Usage
  - Non-Permeate CO2 %

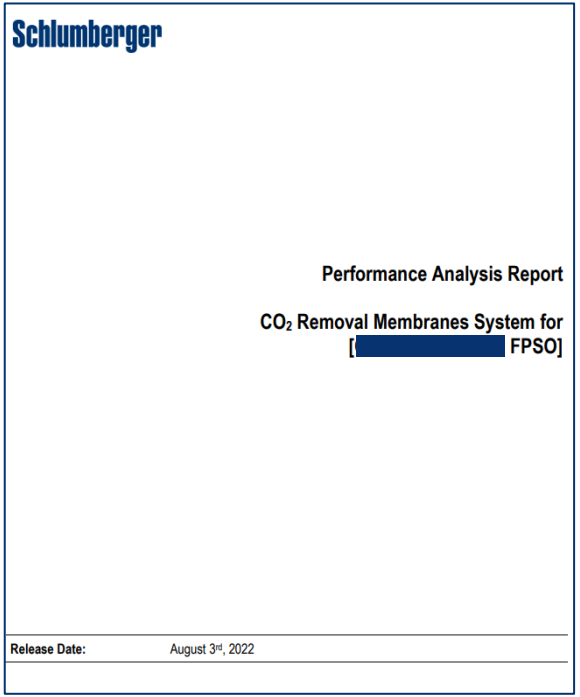


Property	Base	Scenario
Input Properties		
Train A Number of Membranes		12.00
Train B Number of Membranes		12.00
Train C Number of Membranes		12.00
Feed Flow Rate (m3/s)		50.00
Feed pressure (barg)		50.00
Feed temperature (degC)		30.00
Feed Composition - Methane		0.54
Feed Composition - Carbon Dioxide		0.27
Train A Split Ratio		0.35
Train B Split Ratio		0.32
Train C Split Ratio		0.33
Output Properties		
Total Network Capacity - Feed Flow Rate (m3/s)		60.00
Capacity Usage (%)		83.33
Non-Perm CO2 (%)		1.15

Reporting

Monthly report main sections

- **Executive Sumary**
  - ✓ Distribution on Quartile on the treated Gas KPI;
  - ✓ Predicted Remaining useful life (RUL);
- **Operations Parameters**
  - ✓ Feed Pressure;
  - ✓ Permeate Pressure;
- **Acid Gas Membrane performance**
  - ✓ CO_2 concentration split;
  - ✓ Relative Capacity;
- **Expert Analysis and Recommendations**


Schlumberger

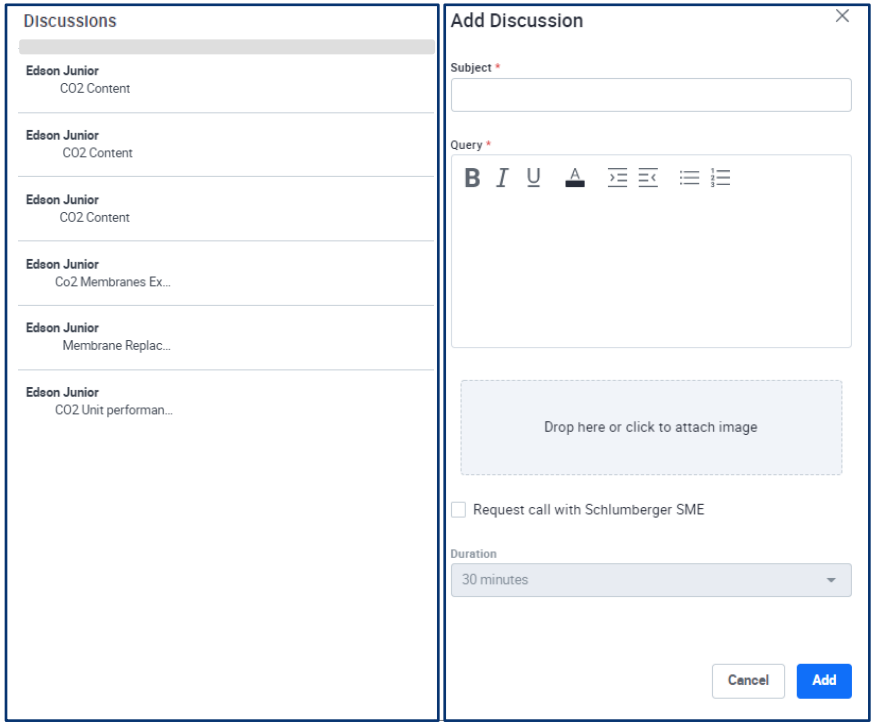
Performance Analysis Report

CO_2 Removal Membranes System for [FPSO]

Release Date: August 3rd, 2022

Live Discussion and Support

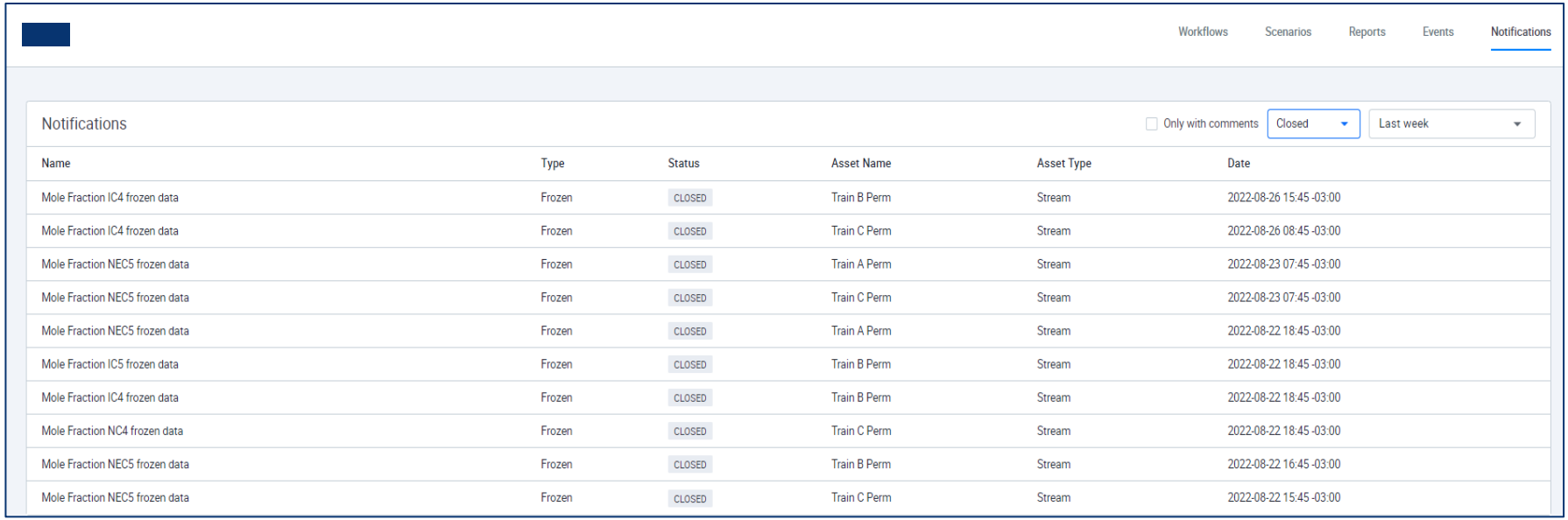
- **Easy access to Schlumberger team SME** (via discussion channel or through call Request).
- **Historical exchanges stay accessible** (improving follow-up and traceability).
- **Accelerate SBM learning curve on operating acid gas removal membranes** (through continious exchanges).



Notifications Alert

Notifications alert on “abnormalities detected” and or “failed communication”.

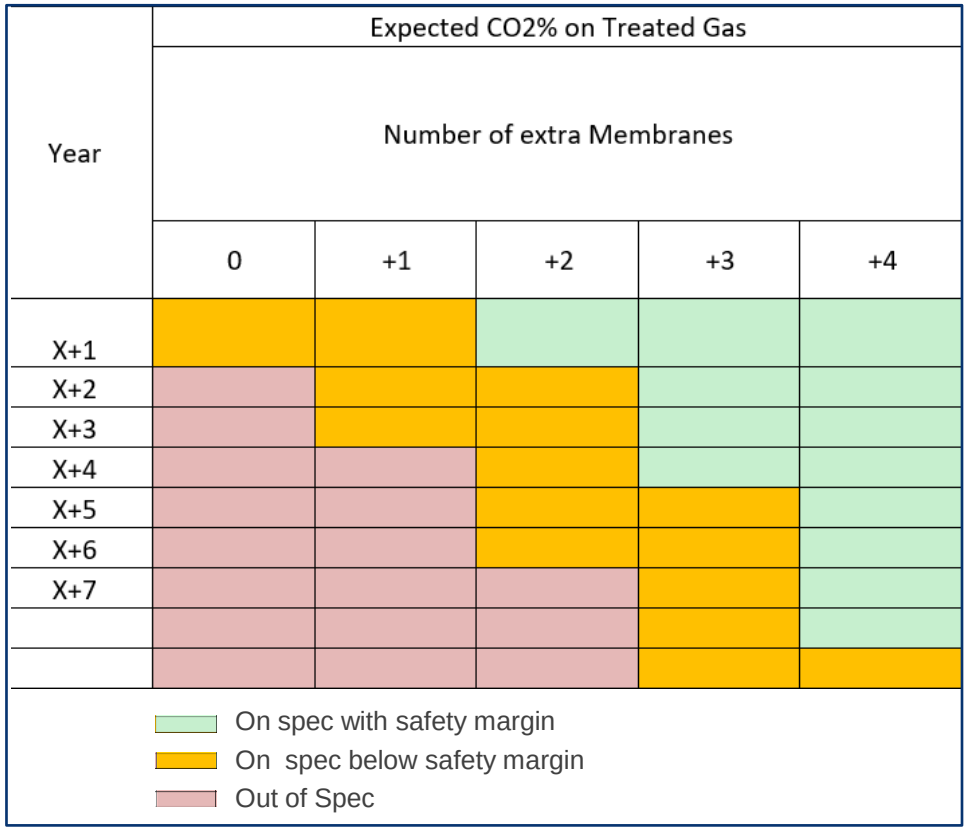
Configuration ongoing on events to be reported on e-mail and at which frequency.



Name	Type	Status	Asset Name	Asset Type	Date
Mole Fraction IC4 frozen data	Frozen	CLOSED	Train B Perm	Stream	2022-08-26 15:45 -03:00
Mole Fraction IC4 frozen data	Frozen	CLOSED	Train C Perm	Stream	2022-08-26 08:45 -03:00
Mole Fraction NEC5 frozen data	Frozen	CLOSED	Train A Perm	Stream	2022-08-23 07:45 -03:00
Mole Fraction NEC5 frozen data	Frozen	CLOSED	Train C Perm	Stream	2022-08-23 07:45 -03:00
Mole Fraction NEC5 frozen data	Frozen	CLOSED	Train A Perm	Stream	2022-08-22 18:45 -03:00
Mole Fraction IC5 frozen data	Frozen	CLOSED	Train B Perm	Stream	2022-08-22 18:45 -03:00
Mole Fraction IC4 frozen data	Frozen	CLOSED	Train B Perm	Stream	2022-08-22 18:45 -03:00
Mole Fraction NC4 frozen data	Frozen	CLOSED	Train C Perm	Stream	2022-08-22 18:45 -03:00
Mole Fraction NEC5 frozen data	Frozen	CLOSED	Train B Perm	Stream	2022-08-22 16:45 -03:00
Mole Fraction NEC5 frozen data	Frozen	CLOSED	Train C Perm	Stream	2022-08-22 15:45 -03:00

Main use Cases

- Flow split and process **parameters optimization** prior new membranes deployment.
  - ➢ **stay on-spec until next planned shutdown**
- Membrane **capacity management** over time as field ages.
  - ➢ **Data driven Membrane deployment continious Strategy review**
    - ❑ **Capex better prediction**
    - ❑ **Optimize Shutdown planning**
- Ongoing improvement on the aging process model performance considering actual historical data.
  - ➢ **Dynamic model performance improvement**

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