SEOGS 2025 - "Responsible and Sustainable Development of Natural Resources"

Moderator – Eugene Tiah, CEO, Caribbean Energy Chamber

Panelists

Mr. Clyde Griffith - Advisor to the Ministry of Natural Resources of Suriname. He has 35 years of experience in Suriname's oil, gas , mining and logistic sectors.

Mr. Juan Simonelli -Leads the Corporate Advisory practice at ERM supporting sustainability strategy and bridging the capital flow to assets, focusing in the Northern Latam region.

Dr Susana Santos - An emissions analyst at S&P Global Commodity Insights and specializes in research and modelling of greenhouse gas emissions for upstream oil and gas assets in the Americas.

Mr Mehrdad Ahmadian- A Senior Process engineer of Total Energies, 26 years experience in process engineering, commissioning, and development within the oil and gas industry, including roles at BP, Saipem and Total Energies. Lead Process discipline for Gran Morgu development since 2021.

Mr. Herve Pichardie- A Senior Operations Manager Total Energies, 31 years experienced in downstream and upstream industries, including roles at Shell Petrochemicals, start-up manager at Yemen LNG and various Total Energies positions including operation manager in Angola deep water field

Mr. Pierre - Group Business Development Director of SBM. He is based at the Monaco office

Areas Covered and Discussed

Suriname Mining Sector Reform Driven By A Focus On Sustainable Development

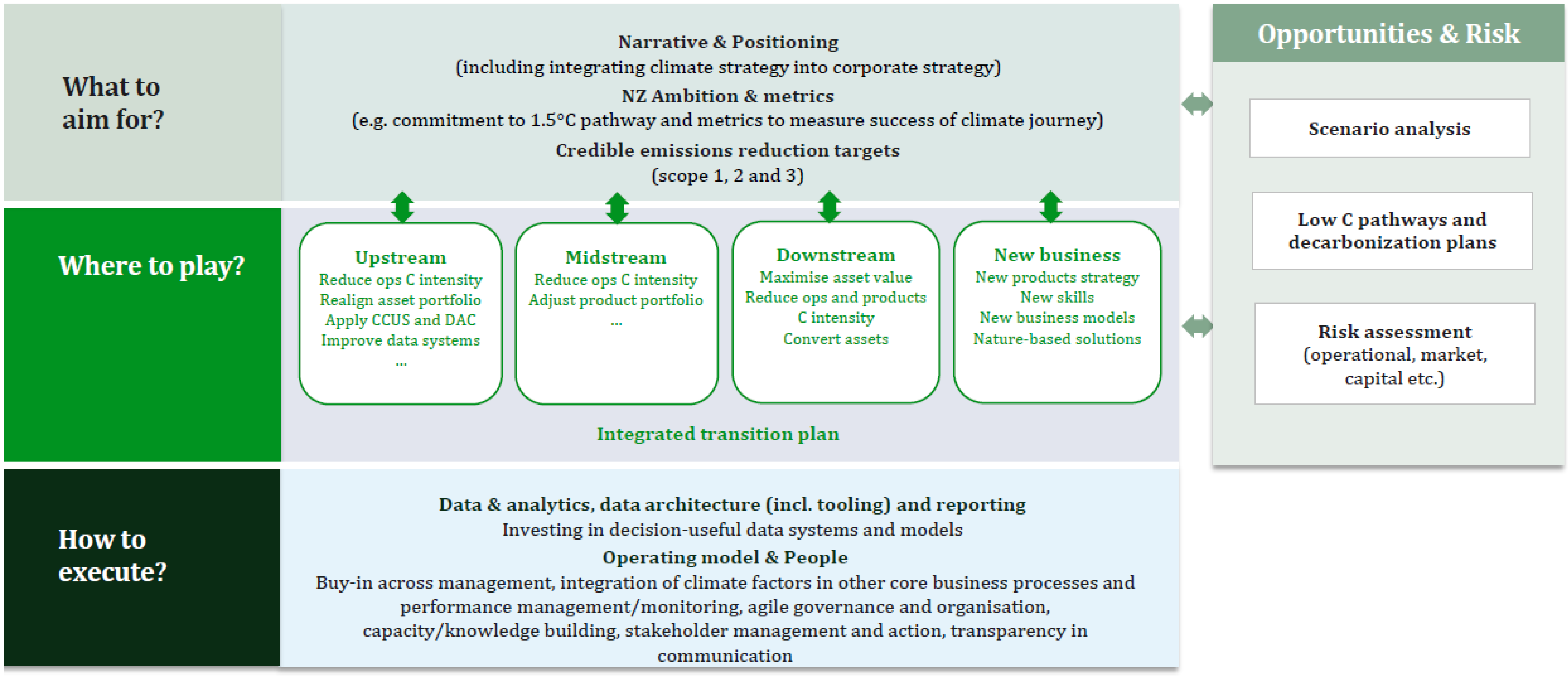
Reform of the Mining Act

Suriname is actively taking steps to modernize its mining policy by revising the Mining Act.

This reform includes the establishment of the Suriname Minerals Authority (DAS), which will be responsible for overseeing all mining activities, from exploration to closure.

The DAS will operate under an independent Supervisory Board and will focus on promoting local involvement, protection of cultural and archaeological heritage, and environmental conservation

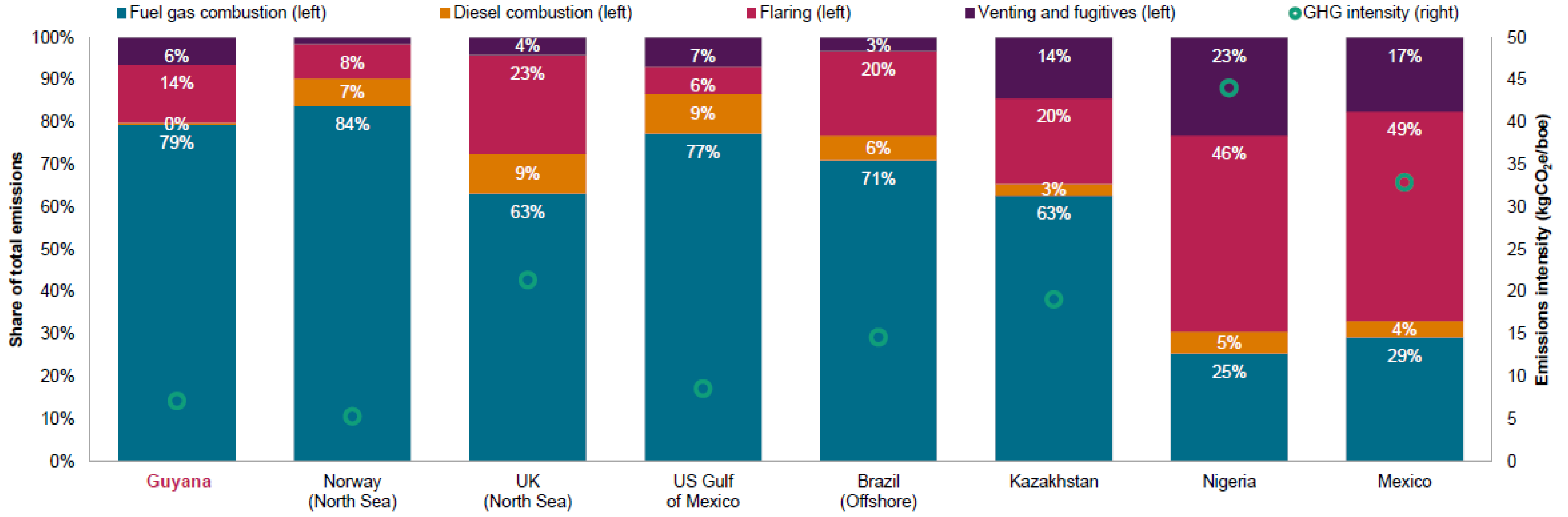
Playbook to develop an O&G climate/ decarbonization strategy



GHG emissions profile is the result of technology, operational practices, regulation, scrutiny and project maturity

Power generation sources can reach 90% of total emissions in regions with stringent regulation and control

Emissions by GHG source and GHG intensity, 2024



Data compiled June 03, 2025.
Source: Upstream Content, a product of S&P Global Commodity Insights.

S&P Global
Commodity Insights

Actions Taken By Total Energies (Block 58 Operator In Suriname) And SBM FPSO (Supplier) To Minimise GHG Emissions From The Grand Morgu FPSO

GranMorgu benefits from all CH4 reduction initiatives

TotalEnergies

SITE LEVEL – Regular monitoring

Satellite Surveillance

- ✓ **Track super emitters** using public satellites
- ✓ **Spot survey,** using private network

Drone Survey Surveillance

- ✓ **Site Level quantification** inventory exhaustivity more than once a year
- ✓ **Reconciliation,** site-level with source level measurement

SOURCE LEVEL – Design and Operation Excellence

VENTING

CH_4

No Venting Policy applied at Design phase

- Vents from process recycled to Vent Recovery Unit
- Cargo tank vents recycled to Vent Recovery Unit

FUGITIVES

CH_4

Continuous detection

- Leak Detection & Repair Full site every quarter
- Network of IoT permanent sensors (ATEX)

COMBUSTION

CH_4

Predective Emission Monitoring System

- Fuel Gas / Flare flow measurement
- Methane destruction efficiency vents with AUSEA drone (Airborne Ultralight Spectrometer for Environmental Application)
- Flame-out detection via flame camera

FLARING

C²H

Design & Operation (next slide)

MONITORING & REPORTING

C²H

- OGMP 2.0 Gold Standard for 4 consecutive years

GranMorgu

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