



Oil Gas Market Commentary
Seplat Energy
Post Deployment User Manual Document

Submitted on 14th March, 2025, by:

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1. Introduction

Seplat Energy's **Oil and Gas Market Commentary** dashboard is a dynamic platform designed to provide real-time insights and updates on the global energy market. It serves as a reliable source of information, offering live data on oil prices, stock market performance, and currency exchange rates, ensuring that stakeholders remain well-informed in a rapidly evolving industry.

The platform tracks **key oil price benchmarks**, delivering up-to-date pricing information to support financial planning and market analysis. Additionally, it provides real-time stock market updates, helping businesses and investors monitor the energy sector's performance with accuracy and efficiency. The integrated **currency exchange rate feature** allows users to track fluctuations in international markets, enhancing decision-making for global trade and investments.

Beyond financial data, the platform keeps users updated with **breaking news and key industry insights** across three categories:

- **Breaking News:** Covering urgent and impactful global events.
- **Most Popular Oil and Gas News:** Highlighting major developments shaping the energy sector.
- **Global News:** Offering a broader economic and geopolitical perspective on industry trends.

Designed for accessibility and ease of use, the platform ensures that market information is readily available to all users. By leveraging advanced technology, it provides real-time updates, reducing the need for manual research and enabling quicker decision-making.

2. System Overview

The **Oil and Gas Market Commentary** Dashboard is designed to provide real-time insights into the global energy market. It integrates multiple API services to deliver accurate data on **oil prices, stock market trends, currency exchange rates, and industry news**. Below is an overview of the key components and their advantages:

- **Alpha Vantage API:** Enables real-time retrieval of stock prices and financial market data, ensuring that users receive up-to-date insights into energy sector stock movements. This enhances market tracking and investment decision-making.
- **Live Exchange API:** Provides real-time currency exchange rates, allowing users to monitor fluctuations and make informed financial decisions based on the latest forex market data.
- **Event Registry API:** Fetches **breaking news, popular oil and gas news, and global news** related to the energy industry. This ensures that users stay informed about market developments and geopolitical events impacting the sector.
- **Azure OpenAI (for News Summarization):** Processes and summarizes detailed news articles retrieved from the Event Registry API, enabling users to quickly grasp key

insights without having to read lengthy reports. This improves efficiency and decision-making by providing **concise and structured** news highlights.

The integration of these services ensures that the dashboard remains **accurate, responsive, and data-driven**, delivering **timely and relevant** market insights. By leveraging real-time data feeds, automated news retrieval, and AI-powered summarization, the dashboard provides a **seamless and efficient user experience** for stakeholders in the oil and gas industry.

3. User Access and Authentication

3.1 Access Restriction:

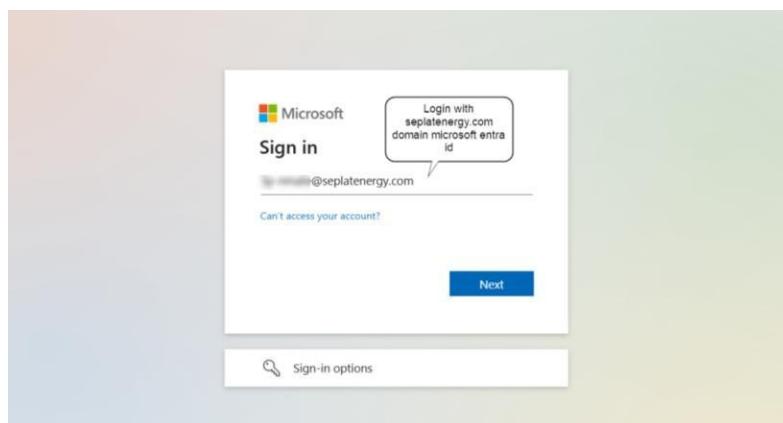
Only authorized members of the **Finance Department** of Seplat Energy (Users who are member of azure security groups) will have access to the **Oil and Gas Market Commentary** Dashboard.

3.2 Authentication Method:

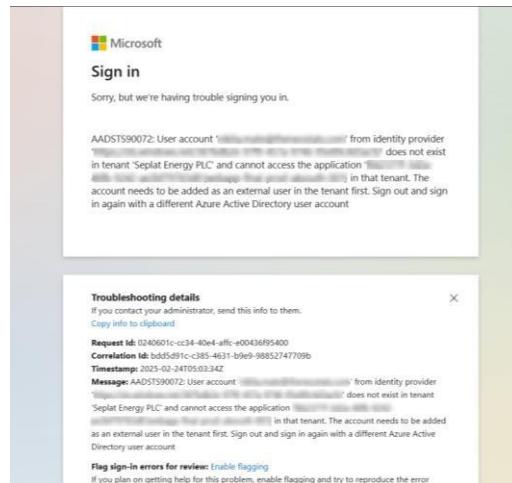
The dashboard requires a **two-step authentication process** to ensure secure access:

1. Single-Tenant Authentication:

- Only users with a **@seplatenergy.com** domain can log in.



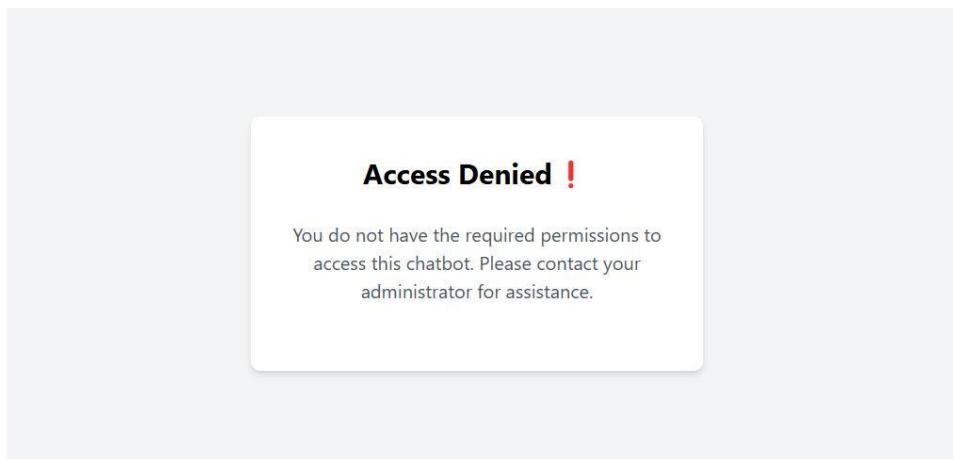
- External users or those with different domains will be restricted from accessing the dashboard.



- If login issues occur, contact IT Support - Taofeeq Olusesi

2. Group-Based Authorization:

- Even after logging in, only users who are members of the designated **Seplat Finance Department security group** will have access to the dashboard.
- Users outside the authorized group will not be able to interact with the dashboard, even if they have a SeplatEnergy domain account.



3. Login Process:

- Users must enter their **Microsoft Entra ID credentials**.
- If the credentials match the domain and security group conditions, access will be granted.
- If login issues occur, contact **IT Support** -

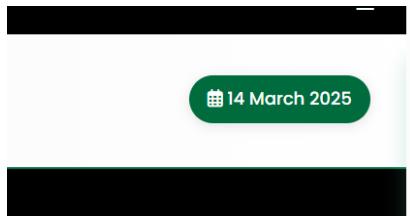
Taofeeq Olusesi (Screenshots will be added here for visual guidance.)

4. Dashboard Usage Guide

The **Oil and Gas Market Commentary Dashboard** provides real-time updates on key industry metrics, including oil prices, stock market trends, currency exchange rates, and news. Below is a detailed guide on how to navigate and utilize the dashboard effectively.

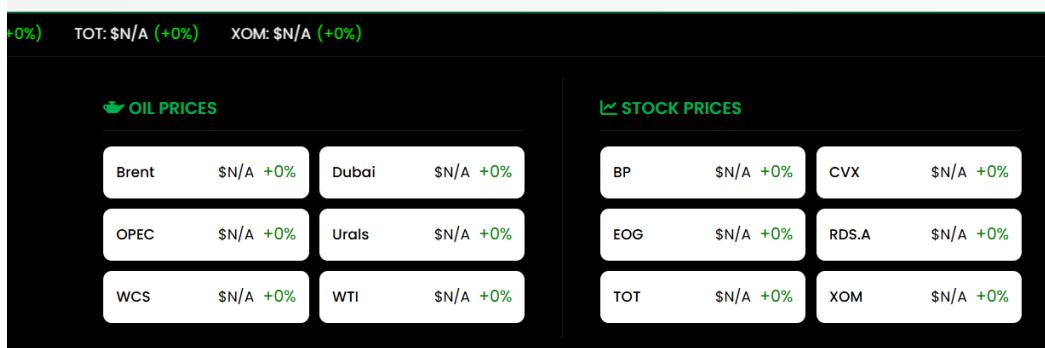
4.1 Date Display

At the top of the page, the dashboard displays the **current day's date**, ensuring users have a clear reference while accessing market data.



4.2 Oil and Gas Price Tracking

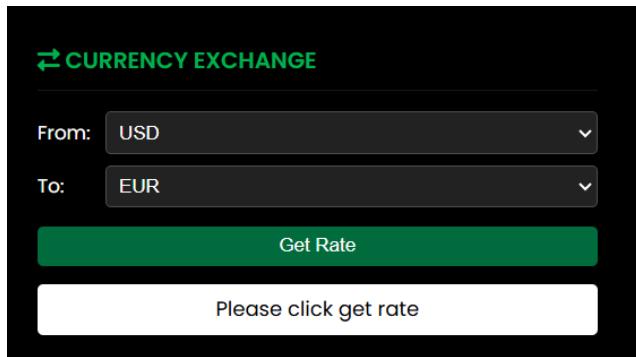
The dashboard provides real-time oil and gas price updates for key benchmarks. This allows users to monitor fluctuations in global energy prices and make informed financial and operational decisions.



4.3 Currency Exchange Rate Calculation

- Select the base currency from the **first dropdown menu**.
- Choose the target currency from the **second dropdown menu**.
- Click the "**Get Rate**" button to retrieve the latest exchange rate instantly.

This feature enables users to track forex movements relevant to the oil and gas industry.



A screenshot of a currency exchange interface. At the top, it says "CURRENCY EXCHANGE". Below that, there are two dropdown menus: "From: USD" and "To: EUR". Underneath these is a green button labeled "Get Rate". Below the button is a white box containing the text "Please click get rate".

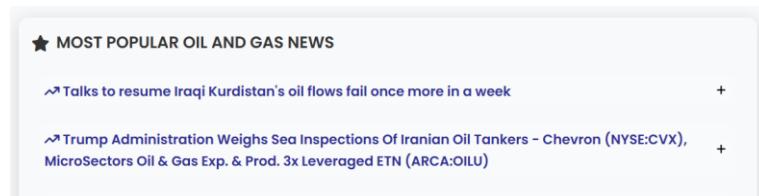
4.4 Breaking News Strip

A dedicated **news ticker** at the top of the dashboard continuously displays the **latest breaking news** related to the energy market. This ensures users stay informed about urgent and impactful industry developments.



4.5 Most Popular Oil and Gas News

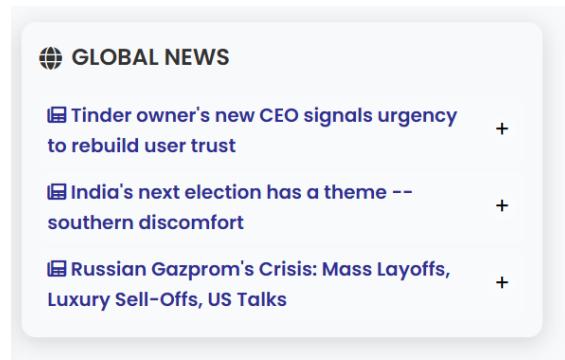
The dashboard highlights the **most popular oil and gas news articles**. Users can click the "+" **button** next to each headline to view more details, providing deeper insights into trending industry topics.



4.6 Global News Section

A separate section displays **global news** relevant to the energy market and broader economic trends. Similar to the popular news section, users can click the "+" **button** to expand and read more.

By structuring information in an intuitive layout, the dashboard ensures users can quickly access and analyse the **latest market trends, financial data, and industry news** efficiently.



5. Data Management and Updates

The **Oil and Gas Market Commentary Dashboard** is continuously updated with real-time market data to ensure accuracy and relevance. The data sources, including oil prices, stock market information, currency exchange rates, and news feeds, are automatically refreshed through API integrations.

5.1 Data Retrieval and Processing

- **Oil Prices & Stock Market Data:** Retrieved from the **Alpha Vantage API** at regular intervals to provide up-to-date market insights.
- **Currency Exchange Rates:** Fetched from the **Live Exchange API**, ensuring users have access to the latest forex rates.
- **Industry News & Updates:** News articles are sourced from the **Event Registry API**, with **Azure OpenAI** summarizing key insights for a more concise and user-friendly experience.
- **Automated Refresh Mechanism:** The dashboard automatically updates at predefined intervals to ensure users receive the latest market data without manual intervention.

6. Troubleshooting and Support

6.1 Common Issues & Resolutions

Issue Possible Solution

Issue	Possible Solution
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Dashboard not loading	Check internet connectivity and refresh the page. If the issue persists, contact IT support.
Oil prices, stock prices, or exchange rates not updating	Wait a few moments for automatic refresh or manually refresh the page. Ensure API services are operational.
News articles not displaying	Verify that the Event Registry API is functioning. If the problem persists, contact support.
Incorrect exchange rate displayed	Confirm that the correct currencies were selected before clicking "Get Rate." Try refreshing the page.
Fields showing N/A or missing data	This may indicate that an API key has expired or the API has reached its usage limit. Contact the support team to verify API key validity or increase request limits.
API connection errors	Ensure that API services (Alpha Vantage, Live Exchange, Event Registry) are running correctly. If an API is down, data retrieval will resume once services are restored.

7. Security and Compliance

- Data Security Measures:** The dashboard ensures compliance with **Seplat Energy's** data security policies by implementing secure API calls and encrypted data storage.
- User Access Control:** Only authorized users can access the dashboard to prevent unauthorized data retrieval.
- Audit Logging:** All major interactions, including API requests and data retrieval, are logged for monitoring and security auditing.
- Unauthorized Access Monitoring:** Any suspicious login attempts or access anomalies are flagged and reviewed by the IT security team.

By implementing these **security, compliance, and support measures**, the dashboard ensures reliability, accuracy, and **seamless user experience** while keeping financial and market data secure.