

Rystad Energy User Onboarding Guide



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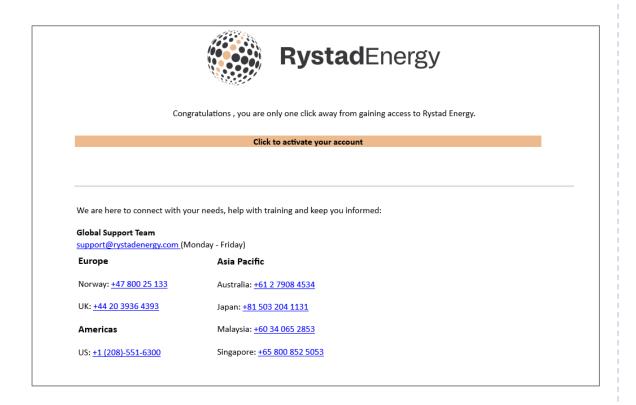


1. Account Management

1.1 Create and Change Password

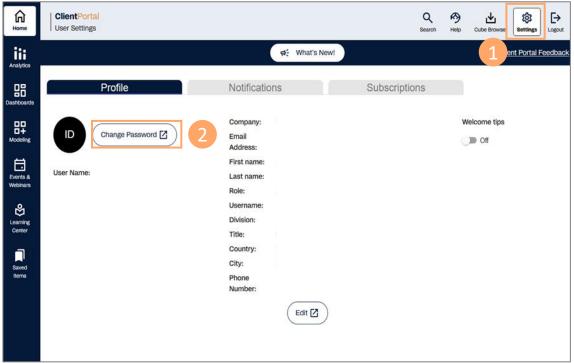
Create Your Account

When you become a subscriber to Rystad Energy, you will receive a welcome email from support@rystadenergy.com. This email will guide you through setting up your credentials and activating your account.



Change Your Password

Users can reset their login password via the "Settings" option located in the top-right corner of the <u>Client Portal</u>. This authentication credential is synchronized across the <u>Client Portal</u> and <u>Cube Browser</u>.





2.1 Introduction to the Platform

Rystad Energy provides subscribers with a range of comprehensive platforms tailored to their subscription plans. Users can access to an extensive global energy database, advanced cost modeling and analytical tools, timely market insights and expert commentary, as well as live webinars and training resources through the following platforms:

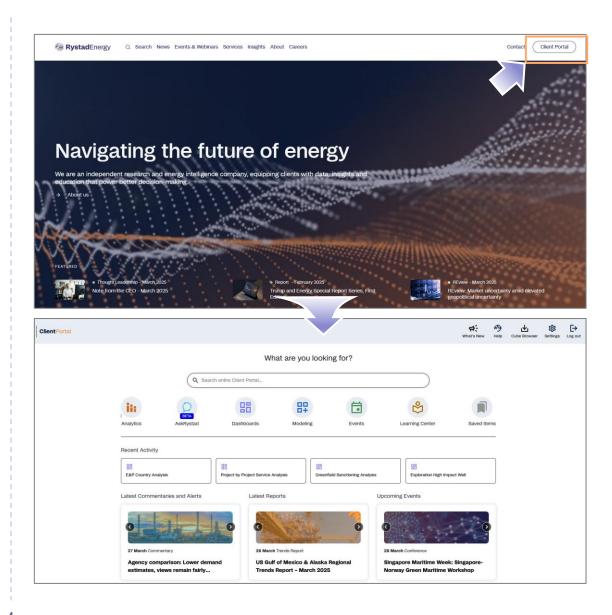
Primary Platform: Client Portal

Upon successfully activating a Rystad Energy account, users can access the Client Portal via the designated button on the **Rystad Energy website** [Link].

The **Rystad Energy Client Portal** is a comprehensive online platform that provides clients with seamless access to data, reports, modelling tools, webinars, and training resources. It serves as a central hub for users to explore various energy industry insights, including upstream, commodity markets, power & renewables, energy transition and supply chain information.

Main Navigation Sections

- Analytics: Expert insights and analyses on key trends in the energy industry.
- AskRystad: Al-powered search tool for accessing Rystad Energy's analytical content.
- Dashboards: Web-based database powered by Power BI.
- Modelling: Advanced tools for customized cost estimation and analysis.
- Events: Access to webinars, industry conferences.
- Learning Center: Tutorials, methodology, FAQs and training resources.
- Saved Items: Bookmark and organize frequently used content for quick access.





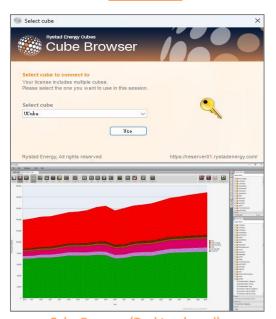
2.1 Introduction to the Platform

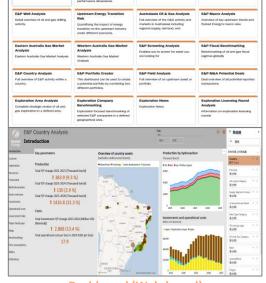
Database

- Cube Browser is a desktop-based data analysis software developed by Rystad Energy. It requires installation on a computer and is designed based on Excel pivot tables, offering greater flexibility for users to create various charts and map visualizations tailored to their needs. It supports multi-dimensional data queries across multiple countries or companies, making it suitable for deep-dive analysis and comparisons.
- **Dashboard**, a web-based database, can be accessed from Client Portal. It is designed using Power BI and features pre-configured visualizations. It is easy to use and suitable for querying data related to a single country or company.
- Datafeed enables data transmission via standard protocols such as Microsoft Azure SQL, Snowflake DB, OData API, and FTP. It allows users to directly access our database and integrate it into their own database platforms.

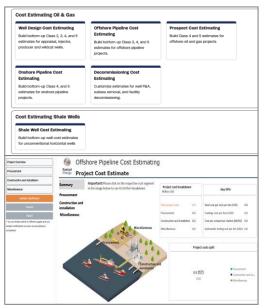
Modelling

• Modelling enables users to input custom parameters to estimate costs or simulate various scenarios, enhancing decision-making with our transparent and editable Excel models. It can also be accessed from the Client Portal.









Cube Browser (Desktop-based)

Dashboard (Web-based)

Datafeed

Modelling



2.1 Introduction to the Platform

Analytics

All analytics are available for viewing and download through the Client Portal – Analytics.

Analytics Types:

- **Commentary:** In-depth analysis, interpretation, and analysis, interpretation, and explanation of a particular topic or issue, often containing forward-looking statements and opinions on industry trends.
- Alert: Provides timely and concise information on a specific event or development that has significant implications for the energy sector.
- **Report:** Provides an in-depth and comprehensive analysis of specific topics, trends, or issues within the energy industry, with regular updates.
- Factsheets: Provides a comprehensive overview of a specific company or asset, including its activities, financial performance, and key metrics (e.g., upstream assets, renewable energy assets).

Filtering:

Users can filter analytics using the filter on the left side, such as:

- Industry: Filter reports by industry (e.g., upstream, energy services, renewable energy).
- Geography: Filter reports by region or country.

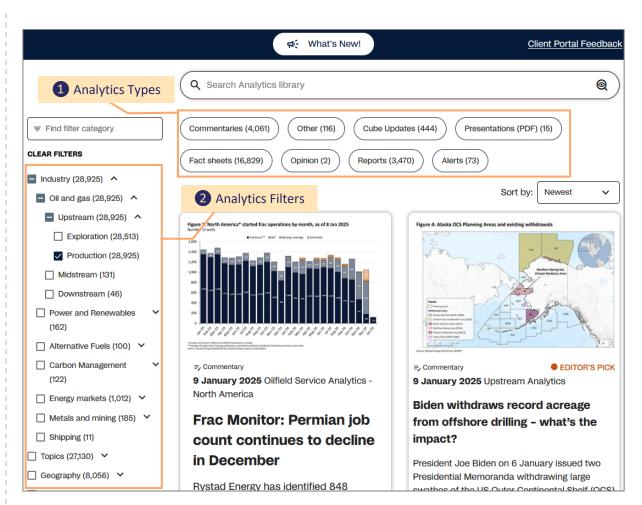
Downloads:

Users can download full report PDFs or the data used in analytics charts by clicking the pdf por pata options below the analytics.

Publication Frequency:

The publication frequency of analytics can be identified by the title format:

- Weekly: [Report Title] 20 June 2024
- Monthly: [Report Title] June 2024
- Quarterly: [Report Title] 1Q 2024
- Annual: [Report Title] 2024





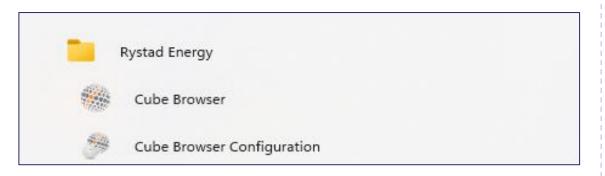
2.2 Launch and Log in to Cube Browser

Instructions for J.P. Morgan users

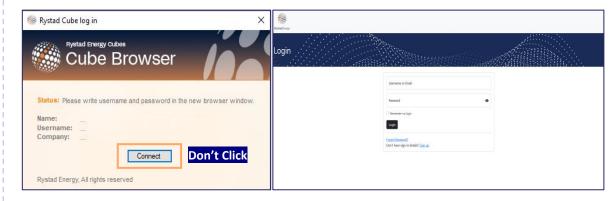
Step 1: Go to your start menu and find "Rystad Energy v2.6"

Step 2: Click on it to launch and complete the installation

<u>Step 3</u>. Once the installation is finished, a Rystad Energy folder will appear in the Windows Start menu, containing two applications: **Cube Browser (database application)** and **Cube Browser Configuration (database server switcher)**. The steps for switching servers can be found [here].



<u>Step 4</u>. When opening the Cube Browser application, there is no need to click "Connect." The program will automatically open a browser page where users need to enter the username and password for Rystad Energy service.



<u>Step 5</u>. After entering the username and password, the browser page will automatically close and return to the Cube Browser window. From there, you can select the database from the dropdown menu and click "Use" to access it.





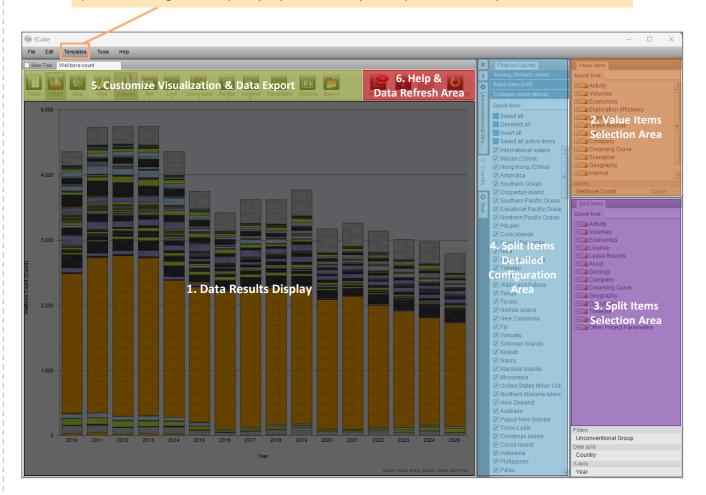
3.1 Access Database – Cube Browser

User Interface Overview

When the system finishes loading all preprocessed data, the Cube Browser interface will display the following key functional areas (see diagram on the right):

- **1. Data Results Display Area:** Displays charts, tables, or maps generated based on your data request settings.
- **2. Value Items Selection Area:** Selects specific analytical values (e.g., production, reserves, installed capacity) to show in the Data Results Display Area.
- **3. Split Items Selection Area:** Specifies filtering dimensions (e.g., region, country, time period) for refining displayed data.
- **4. Split Items Detailed Configuration Area:** Sets specific filter criteria for selected Split Items (e.g., Country: China; Time Range: 2022–2023).
- **5. Customize Visualization & Data Export Area:** Configures visualization types: tables, charts (line/bar/pie), map overlay bubble charts, or infrastructure maps. Includes buttons for chart customization and exporting results.
- **6. Help & Data Refresh Area:** Accesses help documentation. Manually refreshes the display after modifying Value/Split Items.

The <u>Templates</u> menu contains a comprehensive collection of preconfigured analysis templates covering common industry workflows. These ready-to-use templates serve as practical starting points, enabling users to quickly explore the analytical capabilities of the platform.





3.1 Access Database – Cube Browser

How to Select & Filter Data

1. Value Items (Data Selection)

Selection:

- o Value items are organized in folder structures.
- o **To add**: Click and hold a data item, drag it to the Values bar below.

Release when the bar turns orange. The selected item (with its unit) will appear in the bar (see Figure 1, left).

o Multiple items can be added to the Values bar.

Removal:

o **To remove**: Click and hold an item in the Values bar, drag it outside the bar until the cursor displays symbol (), then release (see Figure 1, right).

• Unit Adjustment:

o Use the dropdown menu next to each parameter to modify units.

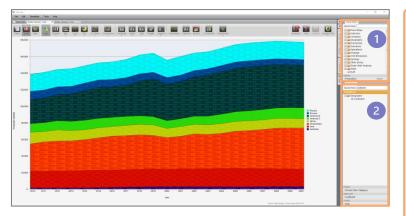
2. Split Items (Data Filtering)

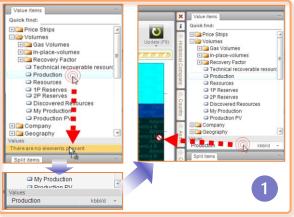
Selection:

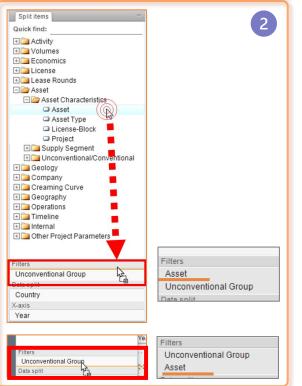
- o Split Items are organized in folder structures, similar to Value Items.
- o **To add**: Drag and drop items into the Filters bar or any sub-bars below it. Release when the target bar highlights orange.

Multiple Values:

o When adding multiple Split Items, align them with the orange guidelines shown in Figure 2 for logical grouping.









3.1 Access Database – Cube Browser

CubeScript

In Cube Browser, users can quickly share or restore data query results using a database command (CubeScript). This feature can be found in the Edit menu:

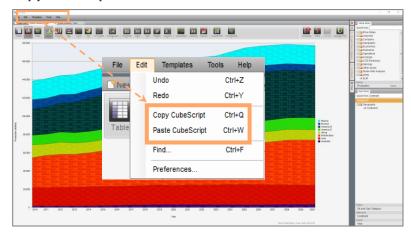
Copy CubeScript (Ctrl+Q)

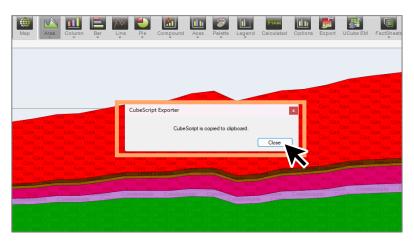
This option copies the chart query command for the current view and saves it in text format. Users can use this command for data backup or to share query settings, making it easy to quickly reproduce the same query results across different devices or among team members.

Paste CubeScript (Ctrl+W)

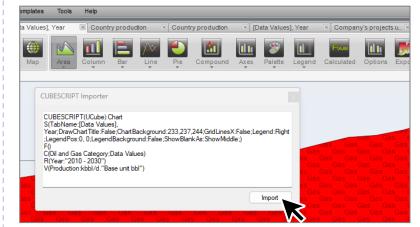
This option opens a dialog box where users can paste the copied query command and then click "Import". After execution, Cube Browser will generate the corresponding chart based on the command, allowing for quick restoration of data queries.

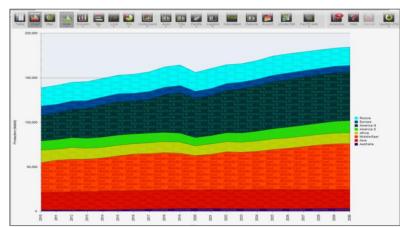
Copy CubeScript





Paste CubeScript

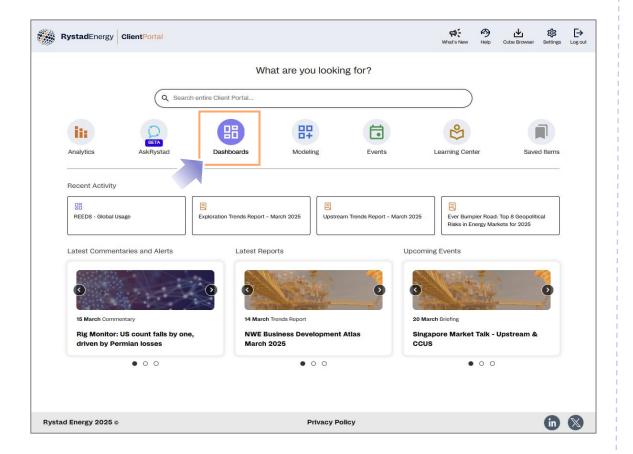




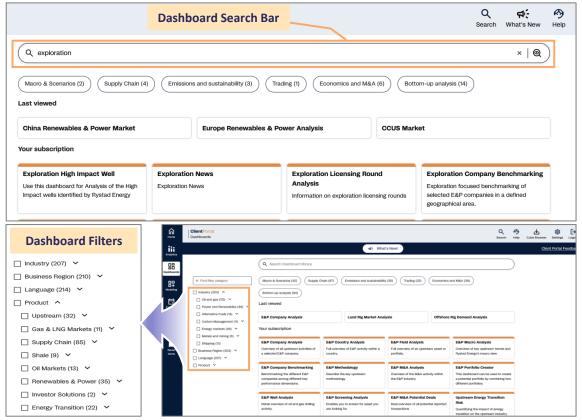


3.1 Access Database – Dashboard

<u>Step 1</u>. Visit the Rystad Energy website [link], click on "Client Portal" in the upper right corner of the page to access the Client Portal, and then select "Dashboards" to enter the web-based database.



<u>Step 2</u>. After entering the Dashboards page, you will see pre-configured analysis modules. Users can search for the corresponding database using the search bar at the top. For example, entering "exploration" will display databases related to exploration. Additionally, users can apply the filters on the left side to refine the database selection.



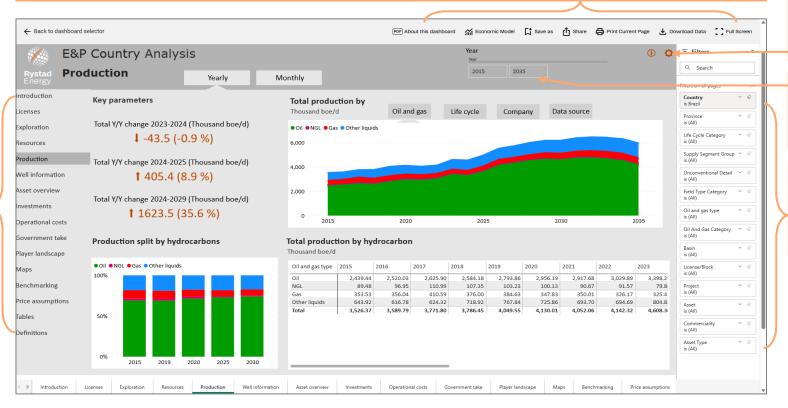


3.1 Access Database - Dashboard

When accessing a specific Dashboard page, the layout is typically divided into the following sections: the **Functional Area** (top), the **Data Panel Tabs** (left), the **Data Filters** (right), and the **Data Display Area** (center). Some dashboards also feature a **Unit/Currency switch** option in the top-right corner of the page.

Data Panel Tabs: Used to categorize and display data related to the current database analysis. Each tab contains data for a specific category, such as production, reserves, supply, demand, investment, etc. Users can click on the tab headings to switch between different data categories.

Functional Area: Provides key interactive features of the data management and viewing, including **About the dashboard** (Click to download the dashboard introduction PDF), **Save as** (Saves all selected filters across all tabs within the dashboard for quick access in the future), **Print Current Page** (Click to print the content of the current page), **Download Data** (Download all chart data within the current dashboard at once), **Full Screen** (Displays the dashboard in full-screen mode).



<u>Unit/Currency Switch</u>: In some dashboards, users can modify the unit or currency displayed on the page by clicking the settings option.

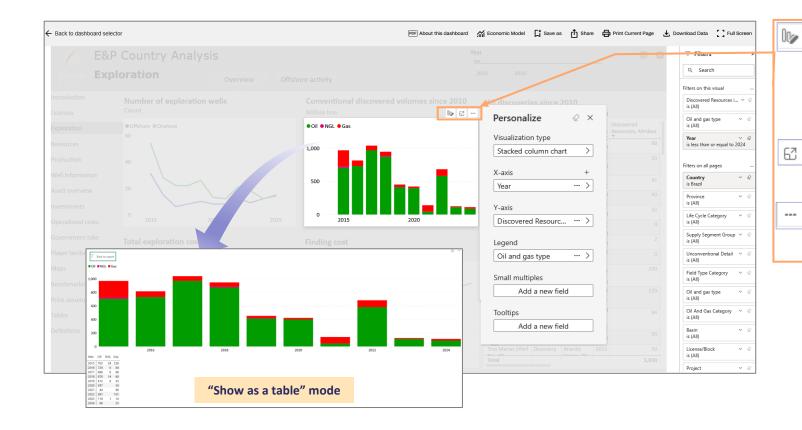
Year Filter: Allows users to filter the target year range using both numeric input and a slider.

<u>Data Filters</u>: Users can set filter criteria here to focus on specific regions or categories.



3.1 Access Database - Dashboard

The dashboard provides advanced interactive functionality through a set of action buttons located in the top-right corner of each module. These controls enable users to customize data visualization, optimize analysis workflows, and adapt the display format to suit specific analytical needs.



Personalize Visulazation: Users can personalize the chart by clicking the "Personalize this visual" button to tailor data visualizations to meet their specific needs. Users can modify chart types, axis parameters to create a personalized view of the data. Please note that the Personalize Visualization feature is available only in dashboards that include this button in the top right corner.

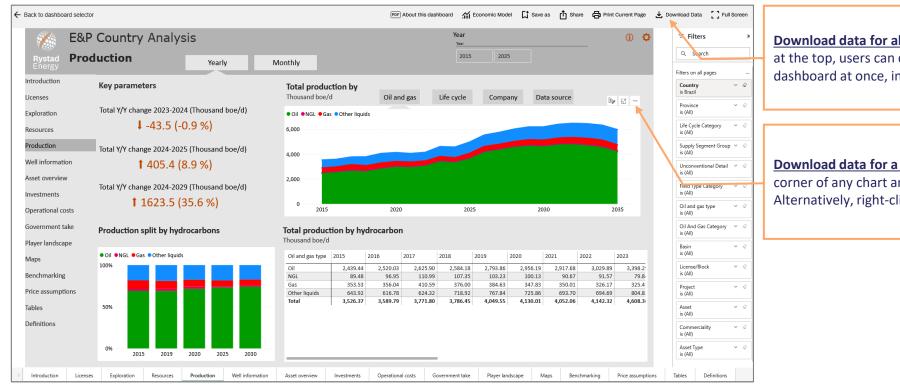
Focus Mode: Users can Expands a specific chart or visualization to full-screen mode by clicking the "**Focus Mode**" button in the top right corner.

Show as a table: Users can click the "More options" button and select "Show as a table" to convert the visual representation into a tabular format for easier data review and analysis.



3.1 Access Database - Dashboard

<u>Download Data</u>: After filtering the required data, users can export it in Excel format. They have the option to download either all chart data from the current page or only the data for a specific chart. The detailed download steps are illustrated in the diagram below.



Download data for all tabs: By clicking the option Download Data at the top, users can download all chart data within the current dashboard at once, including data from all tabs.

<u>Download data for a chart</u>: Click the <u>inclined</u> icon in the top-right corner of any chart and select **Export data** from the menu. Alternatively, right-click on the chart and select **Download data**.



3.1 Access Database - Datafeed

- Many clients want to have all Rystad data in their own data systems in order to combine and compare with other data sources, or to access the data through their own analytical tools.
- Rystad Energy has built a professional platform to support data feeds for this purpose.
- All Rystad commercial cubes are prepared for data feed.
 Update of data will follow cube update cycle. Feed of smaller data sets and client specific feeds will also be supported.
- The data may be downloaded and restored in individual users' desktop tools (eg. PowerBI, Spotfire, Excel, etc.), but for an organization with multiple users it will normally be better and more robust to establish regular download jobs on a database server, and let individual users connect their tools to the database.

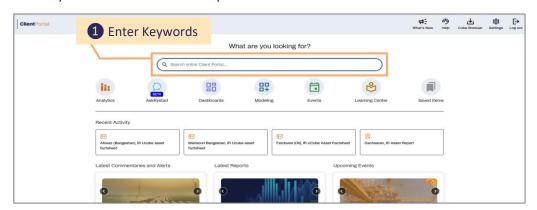
Features	Azure SQL database	Snowflake	OData	FTP
Supports direct connection to query data	⊘	Ø	⊘	
Need separate corporate account	⊘	Ø		⊘
No special firewall rules or IP whitelisting		Ø	②	
Good for big sized tables	⊘	Ø		⊘
Fetch data at aggregated level from source	⊘	Ø		
No special infrastructure required on client side	⊘			
Low technical knowledge threshold			⊘	

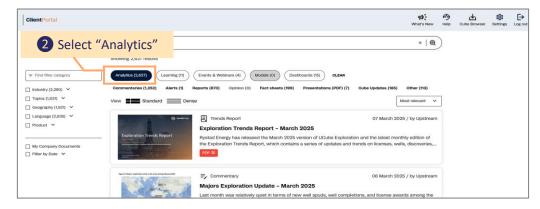


3.2 Search Analytics – Keyword Search

Option 1: Enter Keywords Directly in the Homepage Search Bar (Recommended)

• After logging into the <u>Client Portal</u>, users can enter keywords directly in the homepage search bar. Then, on the search results page, select "Analytics" to browse and download analytics related to subscribed products.

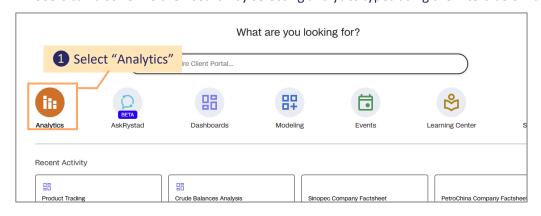


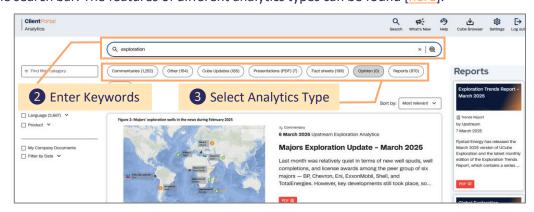


Option 2: Search from the Analytics Page

• After logging into the Client Portal, click the "Analytics" icon below the search bar. On the Analytics page, enter keywords in the search bar to browse and download reports.

Users can also refine their search by selecting analytics types using the filters below the search bar. The features of different analytics types can be found [here].

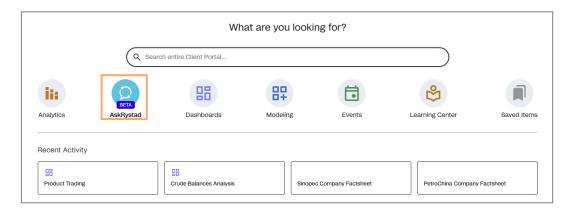


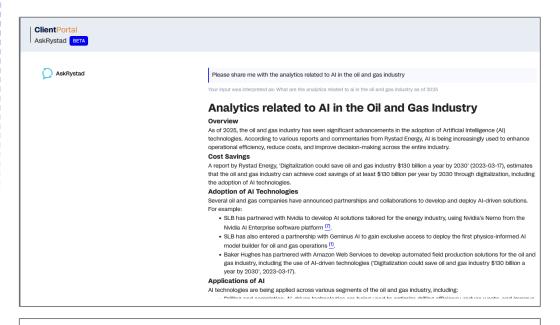




3.2 Search Analytics – AI Search (AskRystad)

- AskRystad: An AI assistant for Rystad Energy report search, built on our extensive industry database and expert in-depth analysis. This tool helps you quickly find relevant report content and data, improving work efficiency.
- Homepage Access: Enter directly from the AI assistant entry on the Client Portal homepage for one-click quick searches within your subscribed documents, precisely matching your business needs. Or access directly via this link.
- Secure Usage: The system does not record any personal query content or data traces, ensuring your search privacy.
- For more accurate search results, it is recommended to use English, for example:
 - ✓ "show me analytics related to AI in the oil and gas industry"
 - √ "show me analytics related to O&G company energy transition"
 - ✓ "show me analytics related to Kazakhstan fiscal in oil and gas"
 - ✓ "What is the well count in Permian region in 2023?"







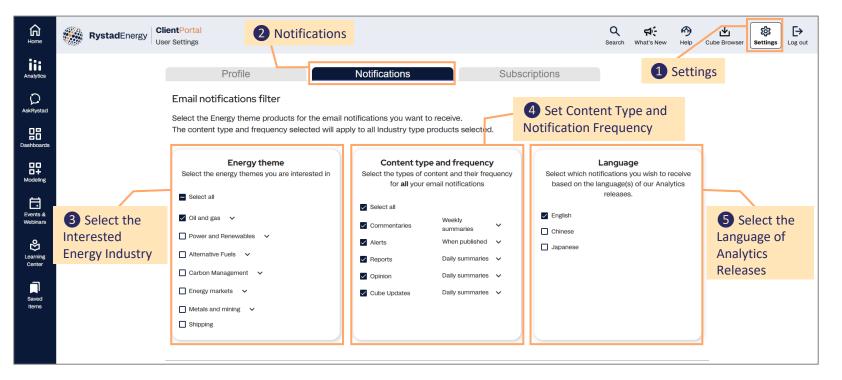


3.2 Analytics Notifications Setting

Once the account is successfully activated, real-time report release notifications are enabled by default. Notifications for subscribed analytics releases will be sent to the registered email address.

Users have the option to customize their notification preferences via the Client Portal by navigating to **Settings > Notifications**. The available customization options include:

- Energy theme: Covers all Rystad Energy product categories and sub-sectors.
- Content Type & Frequency:
 - ✓ **Types:** Commentaries, Alerts, Reports, Opinion, Cube Updates.
 - ✓ Frequency Options: Immediate When published, Summary Mode Daily (24-hour summaries) or Weekly (7-day summaries), Silent Mode Disable notifications by unchecking the relevant categories.
- Language: English, Chinese, or Japanese.

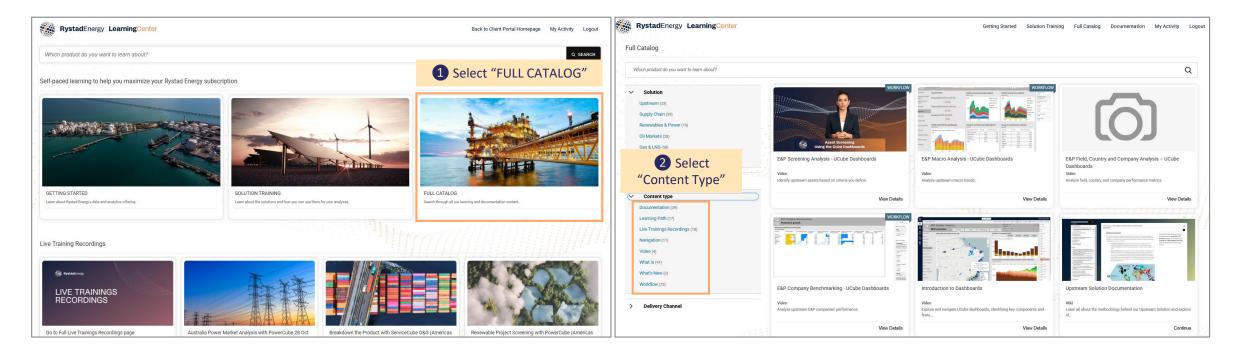




3.3 Learning Centre – Overview

After logging into the Client Portal, users can access the Learning Center by clicking the "Learning Center" icon below the search bar or by using this [link]. On the Learning Center page, select "FULL CATALOG" to browse all product-related documents. In the "FULL CATALOG" section, users can filter content using the "Content Type" filter on the left-hand side, including:

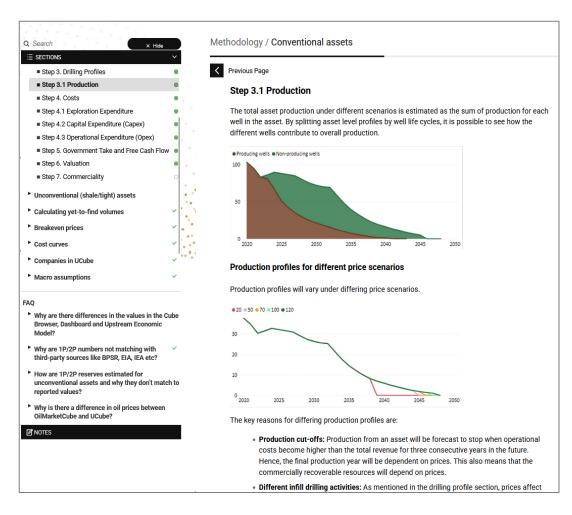
- What is
- Documentation
- <u>Live Trainings Recordings</u>
- Navigation
- Workflow
-





3.3 Learning Centre – Methodology and FAQs

Learning Center contains research methodologies and FAQs for all Rystad Energy products, including data sources, macro assumptions, economic indicator calculations, and more. You can directly access the relevant product documentation pages via the links below.



Upstream

- UCube
- UCubeExploration
- ShaleWellCube

Commodity Market

- Oil Trading Cubes Balances
- Oil Trading Cubes Refinery
- Oil Trading Cubes Supply
- Oil Trading Cubes Demand
- Oil Trading Cubes Crude
- Oil Trading Cubes Product
- GasMarketCube
- LNGTradeCube

Supply Chain

- ServiceCube Oil&Gas
- ServiceCube Low Carbon
- SubseaCube
- WellCube
- OffshoreVesselCube
- EnergyMetalsCube
- OffshoreRigCube
- LandRigCube
- Cost Estimating DynamiX
- Cost Benchmarking <u>DynamiX</u>
- SeismicCube
- Clean Shipping
- SteelCube
- OilfieldServiceCube-NorthAmerica

Power& Renewables

- PowerCube
- Renewable Economic Model
- OffshoreWindCube
- WindCube (<u>Market</u> & <u>Supply</u> Chain)
- SolarCube (<u>Market</u> & <u>Supply</u> <u>Chain</u>)
- GeothermalServiceCube

Energy Transition

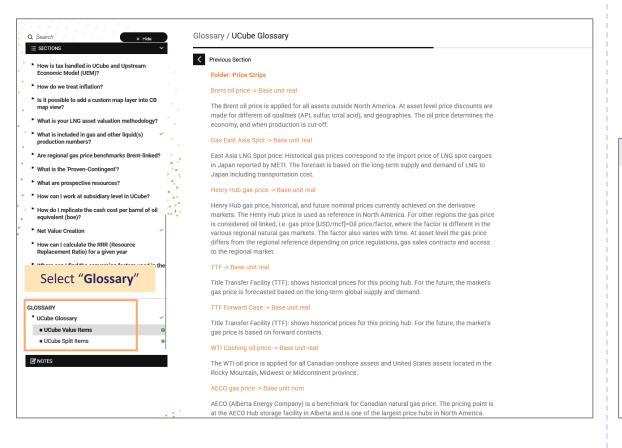
- <u>CCUSCube</u>
- HydrogenCube
- EmissionCube
- <u>BatteryCube</u>
- EnergyDemandCube



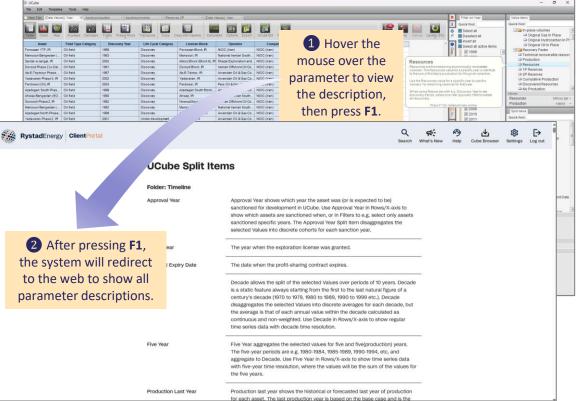
3.3 Learning Centre - Glossary

There are two options to access the definitions of database items:

Option 1: In the Documentation section of any product documentation page, you can find the link on the last slide. From there, select "**Glossary**" at the bottom of the left-hand sidebar to view the explanations of relevant database items.



Option 2: When using Cube Browser, hover your mouse over any parameter to view its description. Press the **F1** key to jump to the web version and access explanations for all parameters for this product.



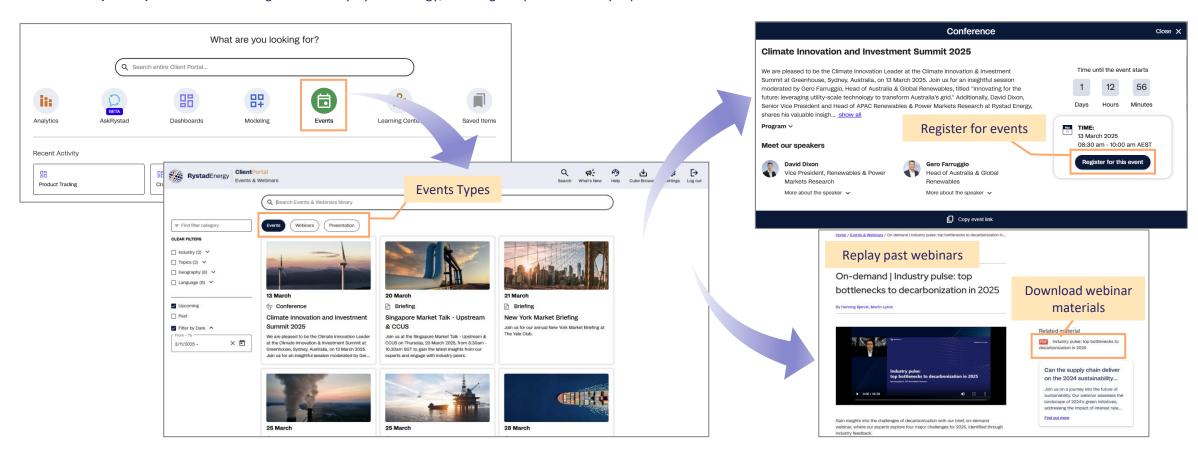


3.4 Events & Webinars

Rystad Energy regularly hosts online/offline market insight events. Users can access the event list by clicking the "**Events**" icon on the Client Portal homepage. By selecting a specific event, users can register for online/offline sessions, replay past webinars, and download related materials.

Market insight events are divided into two types:

- Events (In-person): Offline conferences hosted by Rystad Energy or third-party events where Rystad Energy delivers keynote speeches.
- Webinars (Online): Online market insights hosted by Rystad Energy, focusing on specific industry topics.





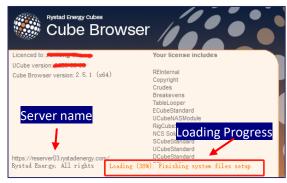
4. Optional Setup

4.1 Switching Cube Browser Servers

If encountering the following issues, users can attempt to switch servers by the steps on the right:

Slow Loading

Typically, loading time should not exceed **2 minutes** before accessing the database. If the progress bar remains stuck at **40% for over 2 minutes**, try switching to a different server.



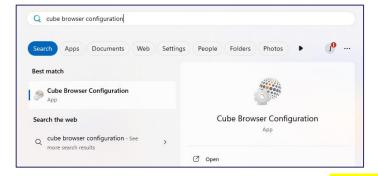
REserver02

Under typical conditions, the backup server REserver02 (http://reserver02.rystadenergy.com) is not recommended for use. If the cube automatically switches to this server, users should manually switch to a different one.

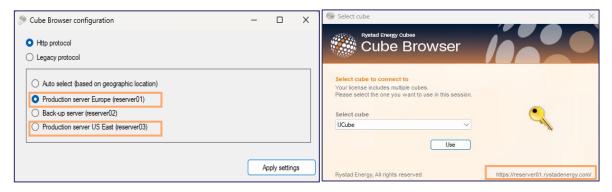


Steps to Switch Servers:

<u>Step 1</u>. Open "Cube Browser Configuration" by searching for it in the Windows search bar or by navigating to the Rystad Energy folder in the Start menu.



<u>Step 2</u>. In the "Cube Browser Configuration," you can choose either the <u>reserver01</u> or <u>reserver03</u>. After making your selection, click the "**Apply settings**" button in the lower-right corner. Once the yellow notification appears, you can close the program. Then, reopen Cube Browser and check if the server name displayed in the lower-right corner matches the one you selected. If it does, the server has been successfully switched.

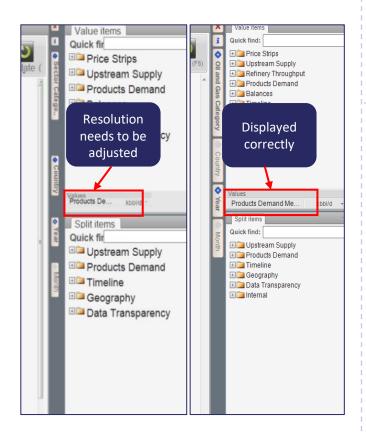




4. Optional Setup

4.2 Modify Cube Browser Resolution

Upon entering the Cube Browser, if the selected value item do not fully occupy the designated window, please follow the steps on the right to manually adjust the resolution settings, ensuring optimal database functionality.



<u>Step 1</u>: Locate the **Cube Browser.exe** Program, the default path is: "C:\Program Files\Rystad Energy\Cube Browser"

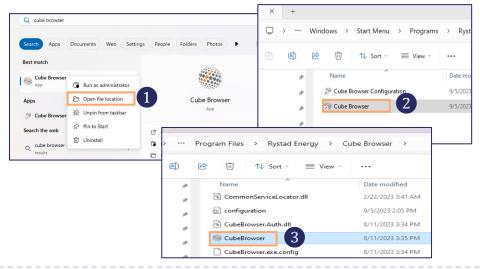
If the program is not found in the default location, you can search for it via the Start menu:

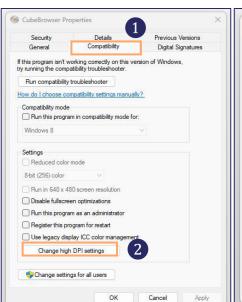
- 1. Open the Start menu and search for "Cube Browser"
- Right-click the Cube Browser icon and select "Open file location"
- 3. In the opened folder, right-click the Cube Browser icon again and select "Open file location" to find the actual installation directory.

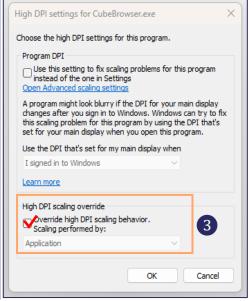
<u>Step 2</u>: After locating the <u>Cube Browser.exe</u> program, right-click on the file and select "<u>Properties</u>" In the dialog box that appears, navigate to the "<u>Compatibility</u>" tab and click on "<u>Change high DPI settings</u>"

<u>Step 3</u>: In the "Change high DPI settings" window, check the option for "Override high DPI scaling behavior" then click "OK" to apply the changes.

Upon completing the above steps, please restart the Cube Browser for the changes to take effect.









Helping you navigate

We provide actionable analysis based on an extensive dataset to help you reach your goals and objectives.