



# Upstream Oil and Gas

Connect™ User Guide

2020

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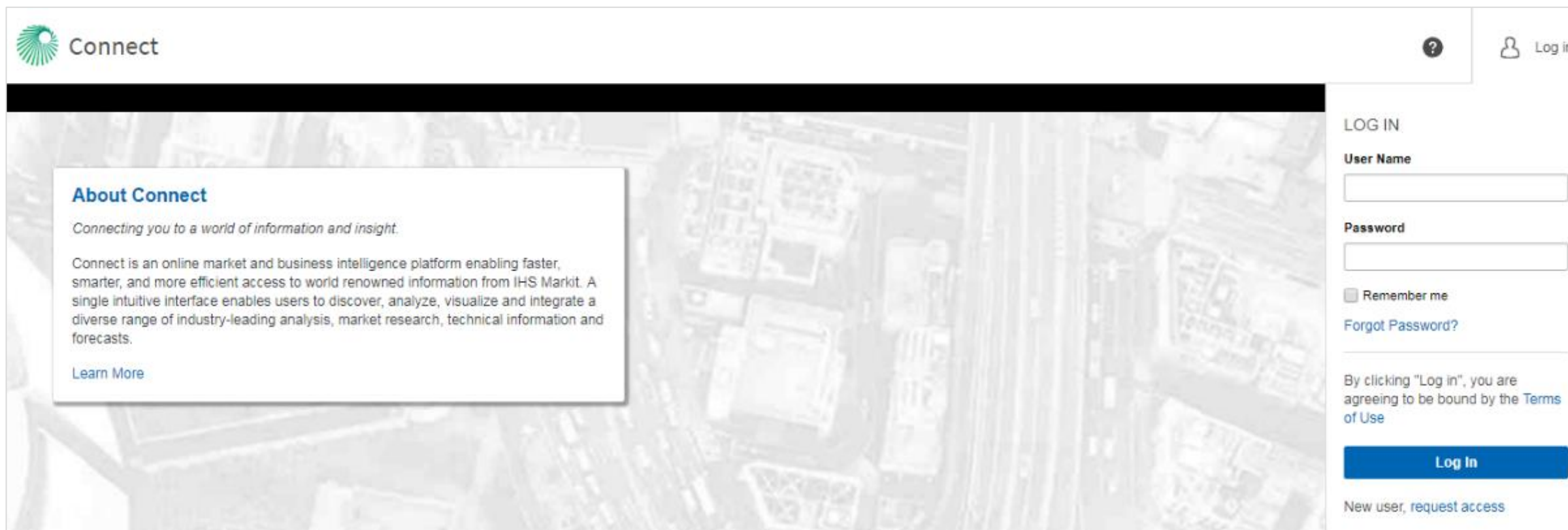
## [Contact Us](#)

# Connect Login Instructions

## Connect Login Instructions

Go to [connect.ihsmarkit.com](https://connect.ihsmarkit.com) and log in with your Username and Password.

Click on 'Forgot Password?' to reset your password.



The screenshot shows the IHS Markit Connect login interface. On the left, there is a 'Connect' logo and a large background image of a city street. A white box on the left contains the text 'About Connect' followed by a description of the platform and a 'Learn More' link. On the right, there is a 'LOG IN' section with input fields for 'User Name' and 'Password', a 'Remember me' checkbox, a 'Forgot Password?' link, and a blue 'Log In' button. Below the button is a link for 'New user, request access'.

**Connect**

**About Connect**

*Connecting you to a world of information and insight.*

Connect is an online market and business intelligence platform enabling faster, smarter, and more efficient access to world renowned information from IHS Markit. A single intuitive interface enables users to discover, analyze, visualize and integrate a diverse range of industry-leading analysis, market research, technical information and forecasts.

[Learn More](#)

**LOG IN**

**User Name**

**Password**

☐ Remember me

[Forgot Password?](#)

By clicking "Log in", you are agreeing to be bound by the [Terms of Use](#)

**Log In**

[New user, request access](#)

# Connect New User Registration

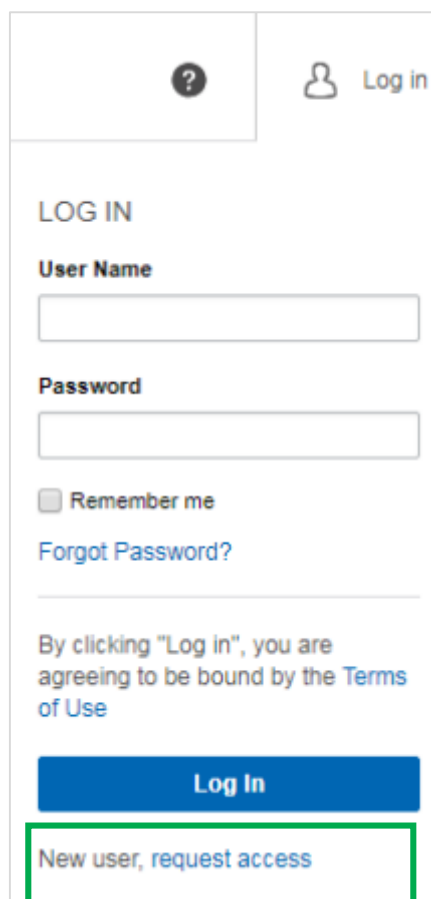
Go to [connect.ihsmarkit.com](https://connect.ihsmarkit.com) and request access.



Follow 4 steps for Connect registration

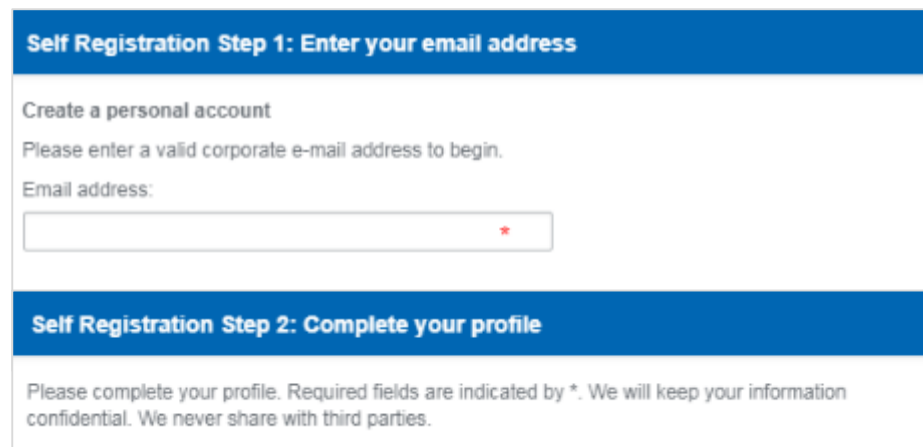
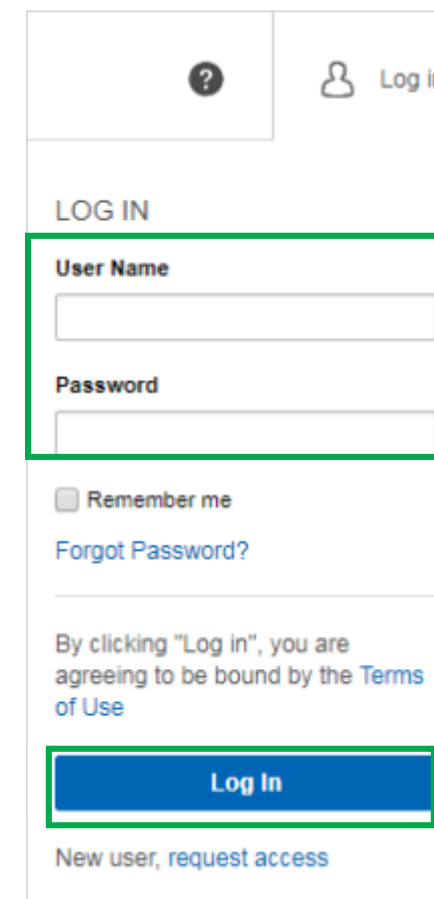


Go to [connect.ihsmarkit.com](https://connect.ihsmarkit.com) and login



1. Enter your corporate email address.
2. Complete your profile. (Enter Connect in the Product Used field)
3. Accept the terms of service.
4. Complete Your Registration

Once you are provided with access, you will receive an email confirmation from [customer care@ihsmarkit.com](mailto:customer care@ihsmarkit.com) with your login instructions.

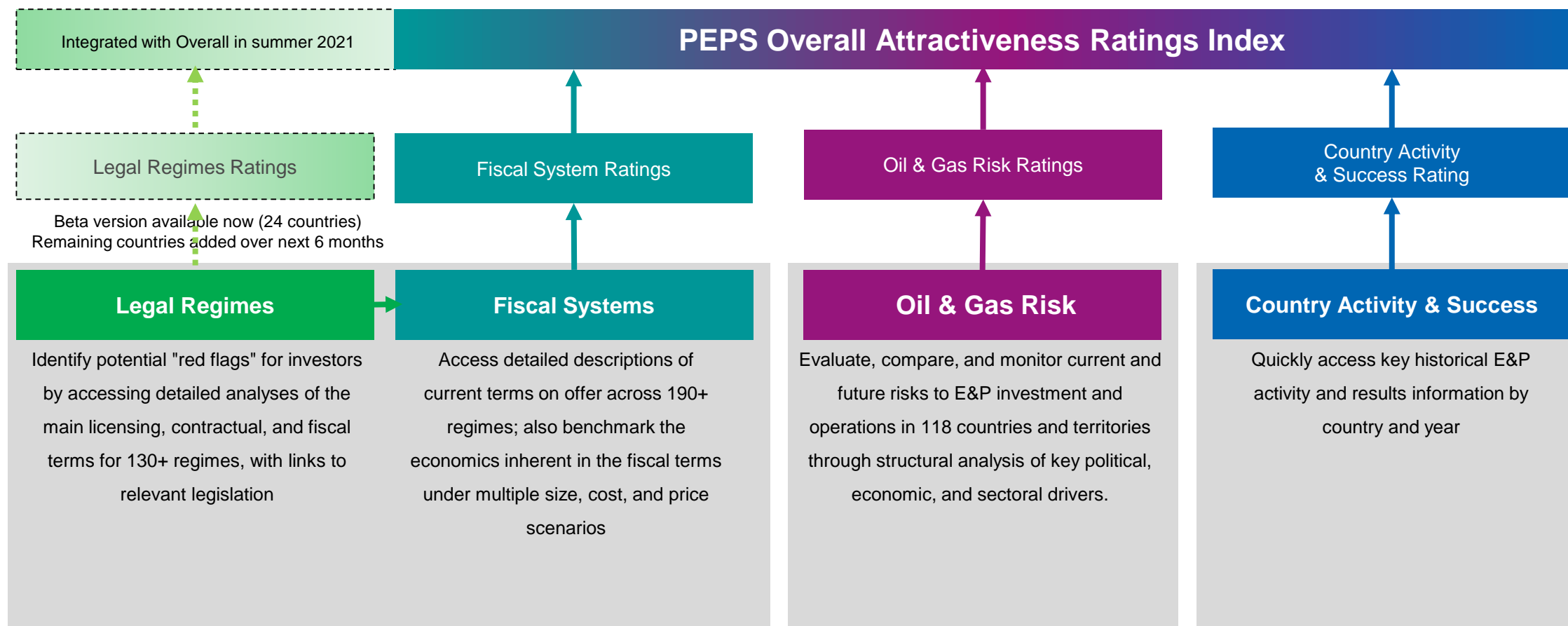



# PEPS: E&P Terms and Above-Ground Risk

# PEPS: Complete Above-Ground E&P Country Information & Risk Analysis

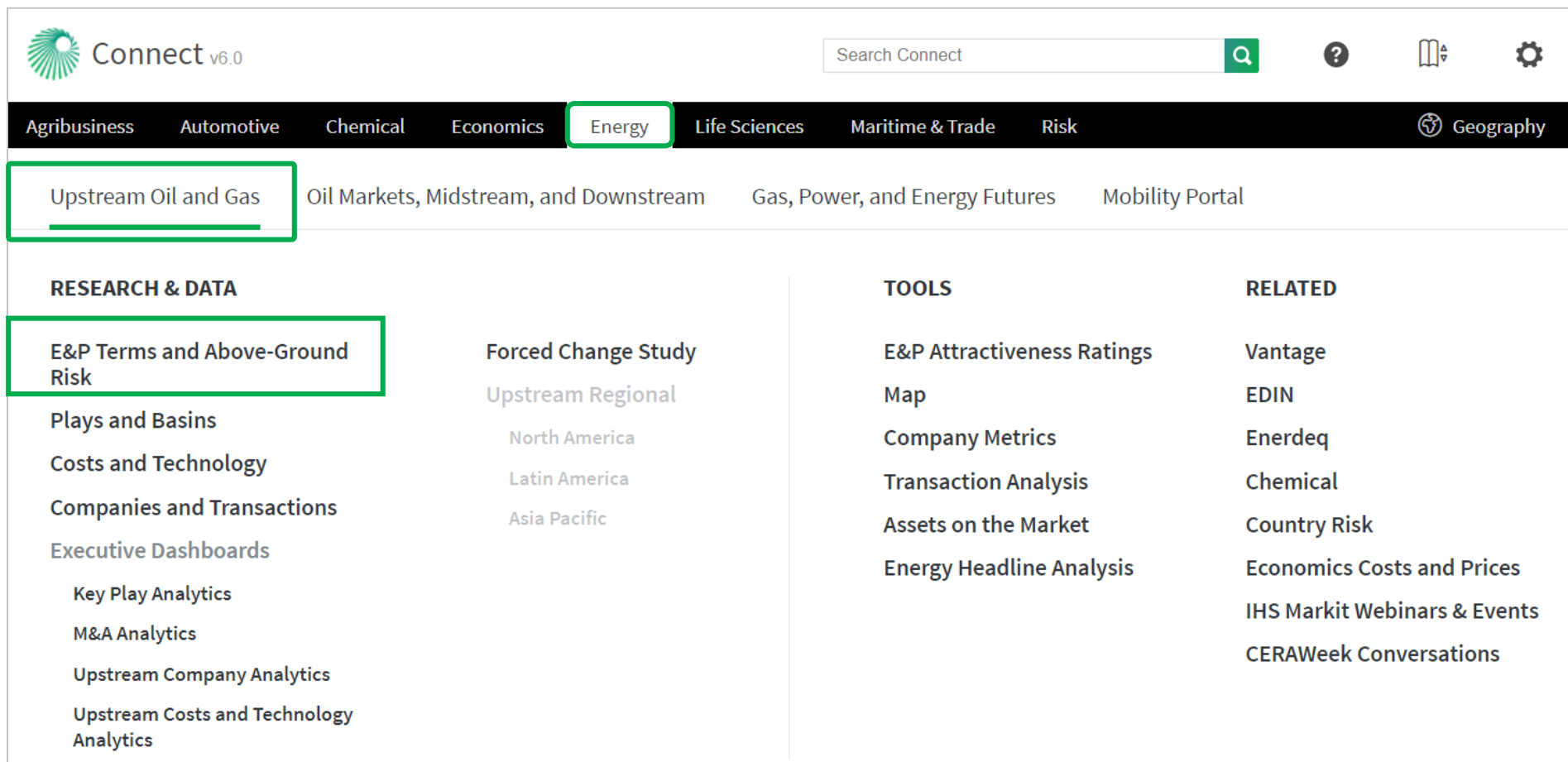
Comprehensive integrated tool to:

- > Rapidly evaluate and compare historical E&P activity, fiscal terms, as well as legal and contractual considerations.
- > Monitor and understand the full range of above-ground risk factors, from changes to terms, to operational disruption.



## Access PEPS in Connect

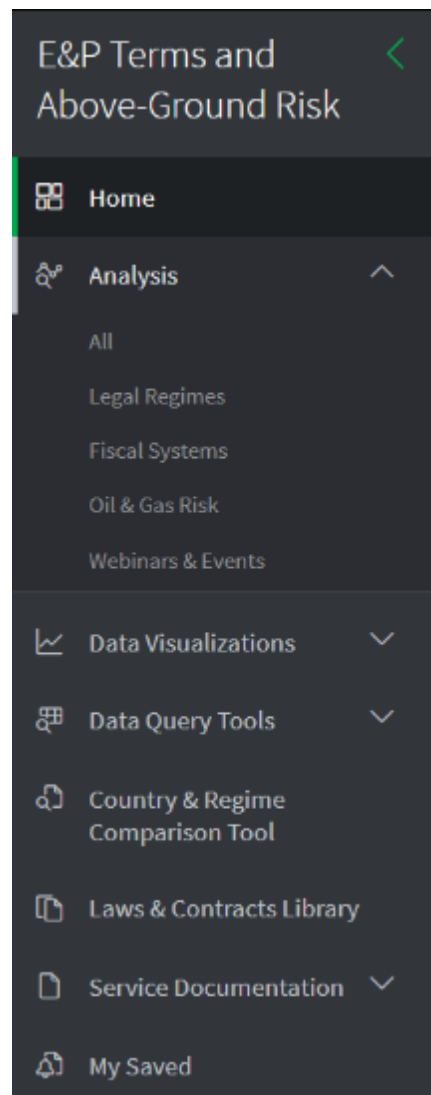
In Connect, hover over the **Energy** menu > **Upstream Oil and Gas** > click on **E&P Terms and Above-Ground Risk**.



The screenshot displays the IHS Markit Connect v6.0 interface. The top navigation bar includes a search bar and icons for help, bookmarks, and settings. The main navigation menu features categories: Agribusiness, Automotive, Chemical, Economics, **Energy**, Life Sciences, Maritime & Trade, Risk, and Geography. The **Energy** menu is expanded, showing sub-options: Upstream Oil and Gas, Oil Markets, Midstream, and Downstream, Gas, Power, and Energy Futures, and Mobility Portal. The **Upstream Oil and Gas** sub-menu is further expanded, revealing a list of options under the 'RESEARCH & DATA' section. The 'E&P Terms and Above-Ground Risk' option is highlighted. Other options in this section include Plays and Basins, Costs and Technology, Companies and Transactions, Executive Dashboards, Key Play Analytics, M&A Analytics, Upstream Company Analytics, Upstream Costs and Technology Analytics, Forced Change Study, Upstream Regional (North America, Latin America, Asia Pacific), and a TOOLS section with E&P Attractiveness Ratings, Map, Company Metrics, Transaction Analysis, Assets on the Market, and Energy Headline Analysis. A RELATED section lists Vantage, EDIN, Enerdeq, Chemical, Country Risk, Economics Costs and Prices, IHS Markit Webinars & Events, and CERAWEEK Conversations.



# PEPS Navigation in Connect



**Home:** Displays various widgets for **Key Developments** and **Featured Analysis** across all legal & fiscal regimes, PEPS ratings benchmarking tools, and more.

**Analysis:** Browse all **PEPS research** topics across all modules.

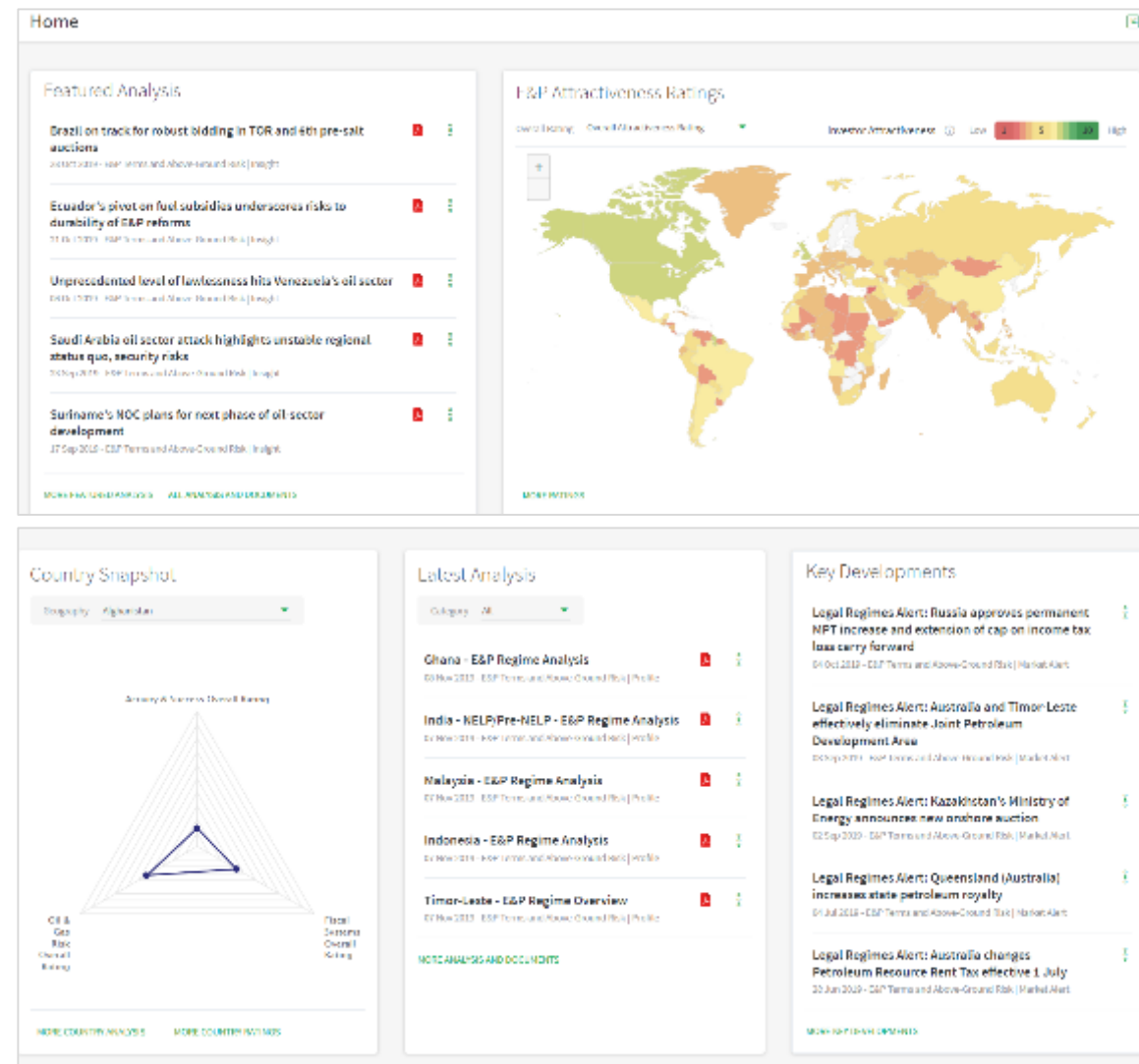
**Data Visualizations:** Customize, visualize, and export data in the PEPS benchmark analysis tools, including for **E&P Attractiveness Ratings** and **Fiscal System modeling**.

**Data Query Tools:** Run custom data queries across E&P Attractiveness Ratings, Fiscal Systems, and Country E&P data.

**Laws & Contracts Library:** Access key upstream-related **legal documents**, including **petroleum laws and regulations**, **model contracts**, and the most important set of **commercial terms** applicable to upstream investments .

**Service Documentation:** Access **PEPS Methodology documents**.

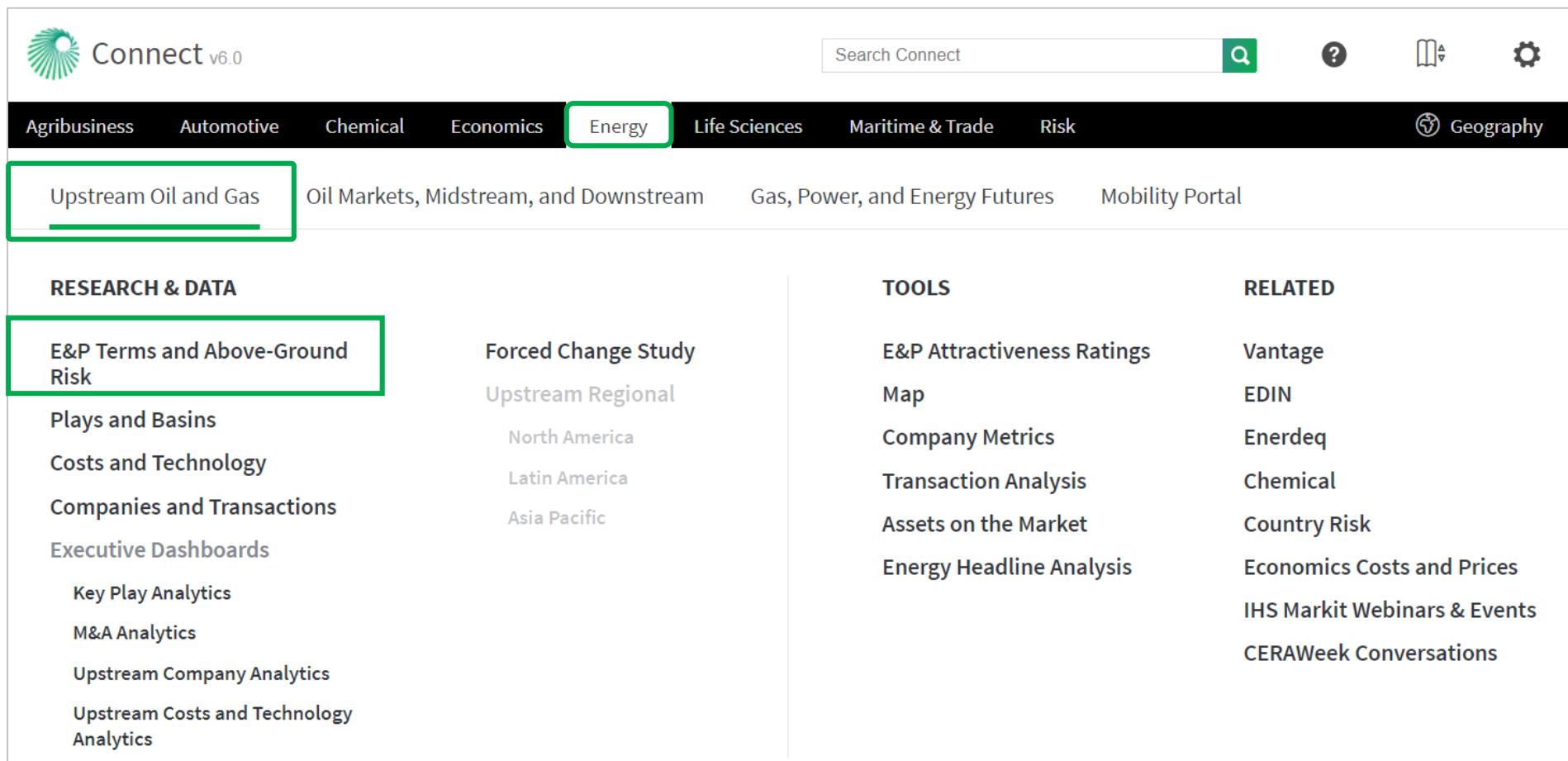
**My Saved:** Access your saved tool queries and data visualizations.



# PEPS Legal

# Access PEPS in Connect

In Connect, hover over the **Energy** menu > **Upstream Oil and Gas** > click on **E&P Terms and Above-Ground Risk**.

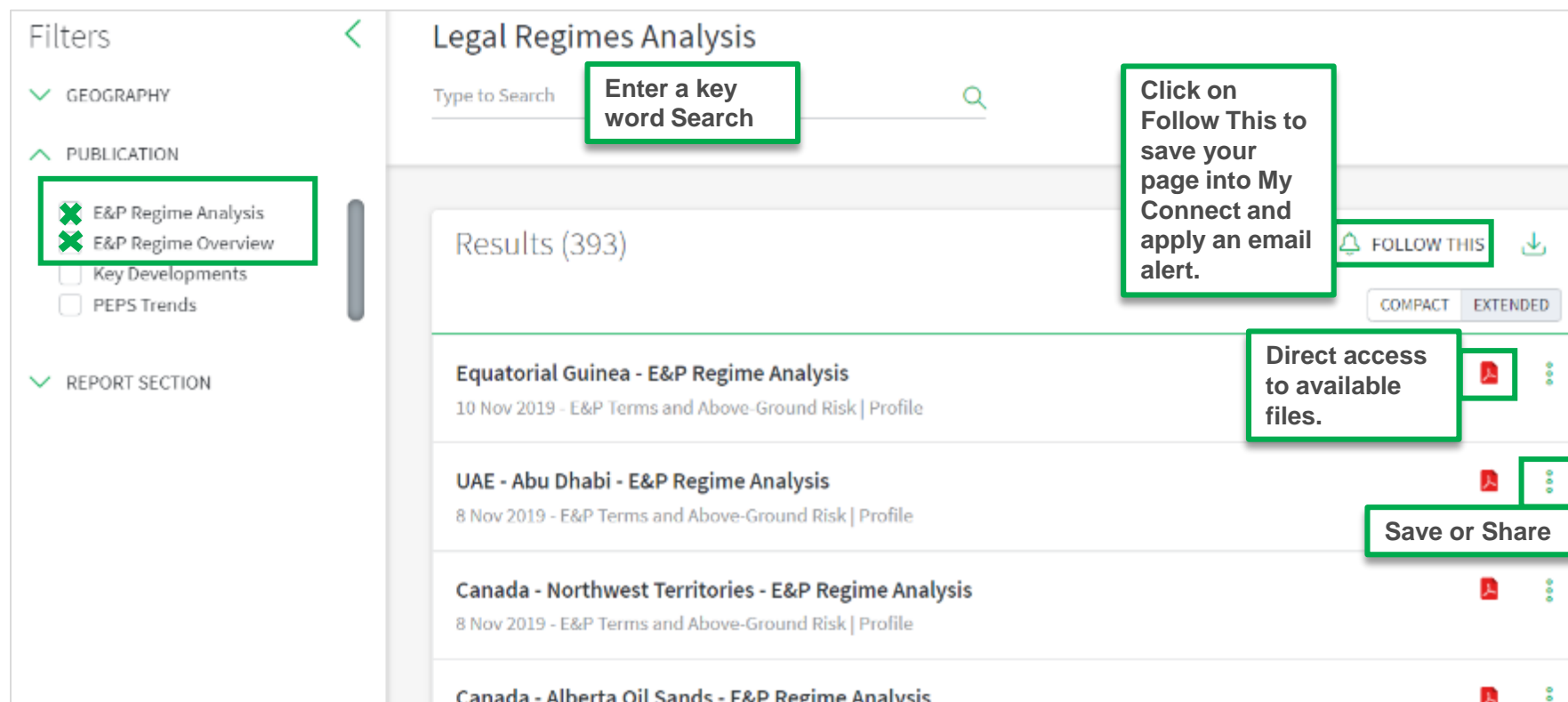
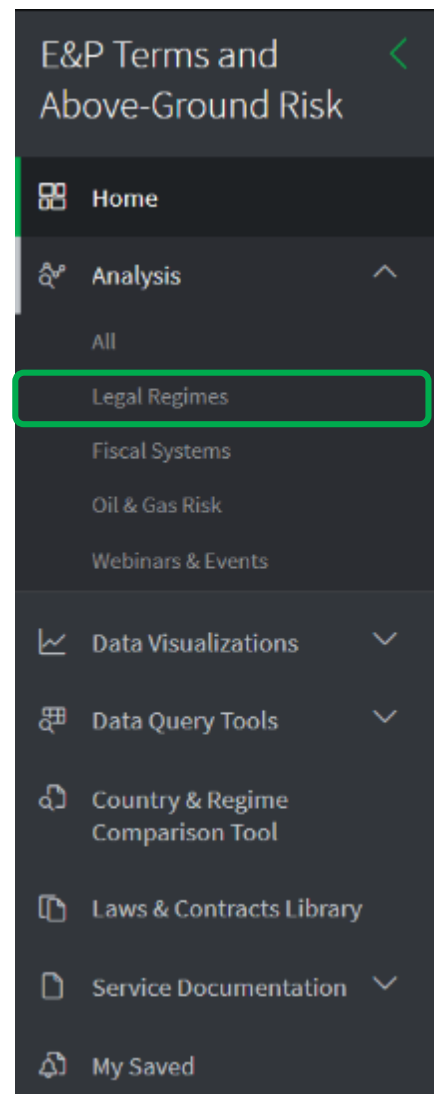


The screenshot displays the IHS Markit Connect v6.0 interface. The top navigation bar includes the IHS Markit logo, the text "Connect v6.0", a search bar labeled "Search Connect", and icons for help, bookmarks, and settings. Below this, a secondary navigation bar lists various sectors: Agribusiness, Automotive, Chemical, Economics, **Energy** (highlighted with a green box), Life Sciences, Maritime & Trade, Risk, and Geography. Under the **Energy** menu, a sub-menu is visible with options: **Upstream Oil and Gas** (highlighted with a green box), Oil Markets, Midstream, and Downstream, Gas, Power, and Energy Futures, and Mobility Portal. The main content area is divided into three columns: **RESEARCH & DATA**, **TOOLS**, and **RELATED**. In the **RESEARCH & DATA** column, the option **E&P Terms and Above-Ground Risk** is highlighted with a green box. Other options in this column include Plays and Basins, Costs and Technology, Companies and Transactions, Executive Dashboards, Key Play Analytics, M&A Analytics, Upstream Company Analytics, and Upstream Costs and Technology Analytics. The **TOOLS** column lists E&P Attractiveness Ratings, Map, Company Metrics, Transaction Analysis, Assets on the Market, and Energy Headline Analysis. The **RELATED** column lists Vantage, EDIN, Enerdeq, Chemical, Country Risk, Economics Costs and Prices, IHS Markit Webinars & Events, and CERAWEEK Conversations.

# Legal Regime Analysis: E&P Regime Analysis and Overview

In the **Analysis** section, click on **Legal Regimes** and apply the **E&P regime filters (Geography)**:

- **E&P Regime Analysis (EPRA)** provides detailed analysis of a full range of commercial terms and the regulatory/institutional framework for all countries.
- **E&P Regime Overview** provides PDF reports with snapshots of the overall structures of the key upstream E&P factors by country.



# (Legal) Country & Regime Comparison Tool: Legal & Contractual Terms

E&P Terms and Above-Ground Risk
<

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My Saved

**Country & Regime Comparison Tool** allows users to quickly compare and export specific sections of the EPRA (E&P Regime Analysis reports) across regimes.

Select **Legal and Contractual Terms** from the **Resource drop-down box**. Select the checkboxes next to regimes and EPRA section/s of interest. Click **Submit**.

Country & Regime Comparison Tool

Resource
Legal and Contractual Terms
Legal Regime
Oil & Gas Risk Commentary
Report Sections:
Australia
Transfer/Assignment
Types of Production Right

Click **Save As** to save into **My Saved**.
SAVE AS...

RESET ALL
CANCEL
SUBMIT

Results (2)

☐
☒
☒

Legal Regime	Topic	Title	Summary Text	Published Date
Australia	Development and Production Phase	Types of Production Right	2006 OPA Sec 161 – 162, Sec 469 – 471, Schedule 4 A Petroleum Production Licence confers exclusive production rights (granted for the recovery of petroleum following a commercial discovery). All titles must be entered into a register of titles by the National Offshore Petroleum Titles Administrator (NOPTA).	26 Sep 2017
Australia	Investment Protection and Exit Terms	Transfer/Assignment of E&P Rights	2006 OPA Sec 472 - 481 Any assignment requires the consent of the National Offshore Petroleum Titles Administrator (NOPTA) and must be registered in the Register of Titles (maintained by NOPTA) to be valid. Note: The Minister for Resources must provide written notice of permission for NOPTA to approve the transfer.	26 Sep 2017

Select checkboxes and Export data.
EXPORT...

E&P Terms and Above-Ground Risk

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**Laws & Contracts Library** contains an aggregation of key **upstream-related legal documents**, including **bid documents, petroleum laws and regulations, model contracts**.

Filters

▼

GEOGRAPHY

▲

PUBLICATION

☐ Bid Documents & Guidelines

☐ Laws & Regulations

☐ Model Contracts

Filter by Geography or Publication.

Laws & Contracts Library

Type to Search

Enter a key word Search.

🔍

Click on Follow This to save your page into My Connect and apply an email alert.

🔔 FOLLOW THIS

⬇️

COMPACT

EXTENDED

Results (4,112)

East Timor - Model Production Sharing Contract under the Petroleum Act (Offshore Model to be used for 2019 licensing round)

5 Nov 2019 - E&P Terms and Above-Ground Risk | Laws & Contracts

⋮

East Timor - Production Sharing Contract for the Onshore of Timor-Leste Area – February 2015 (model/draft to be used for 2019 licensing round)

5 Nov 2019 - E&P Terms and Above-Ground Risk | Laws & Contracts

⋮

Liberia - Liberia Petroleum Law amended 2019

5 Nov 2019 - E&P Terms and Above-Ground Risk | Laws & Contracts

⋮

Gabon - Gabon Hydrocarbon Code 2019 (French)

28 Oct 2019 - E&P Terms and Above-Ground Risk | Laws & Contracts

⋮

Gabon - Gabon Hydrocarbon Code 2019

28 Oct 2019 - E&P Terms and Above-Ground Risk | Laws & Contracts

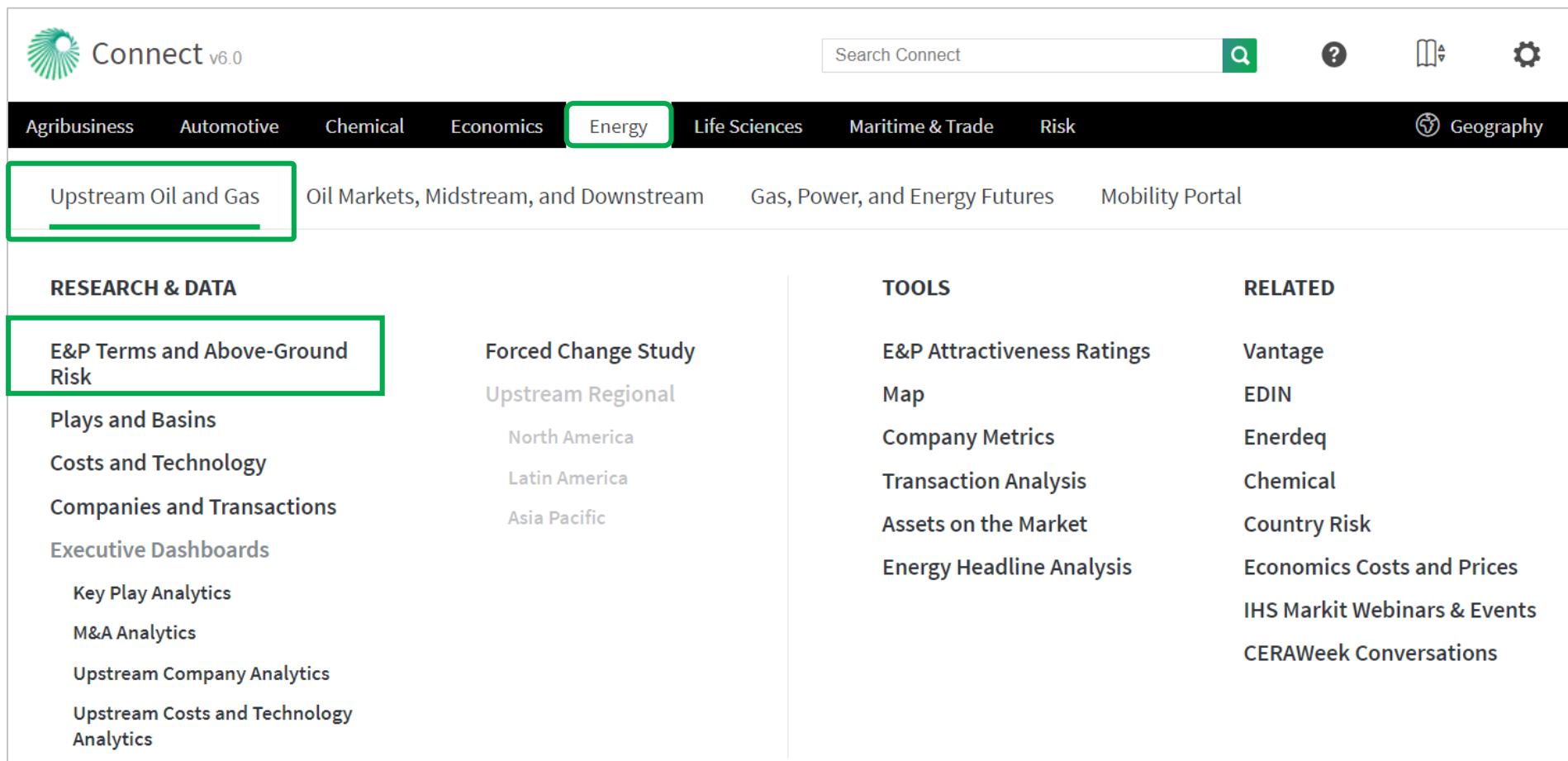
⋮

Save or Share

# PEPS Fiscal

# Access PEPS in Connect

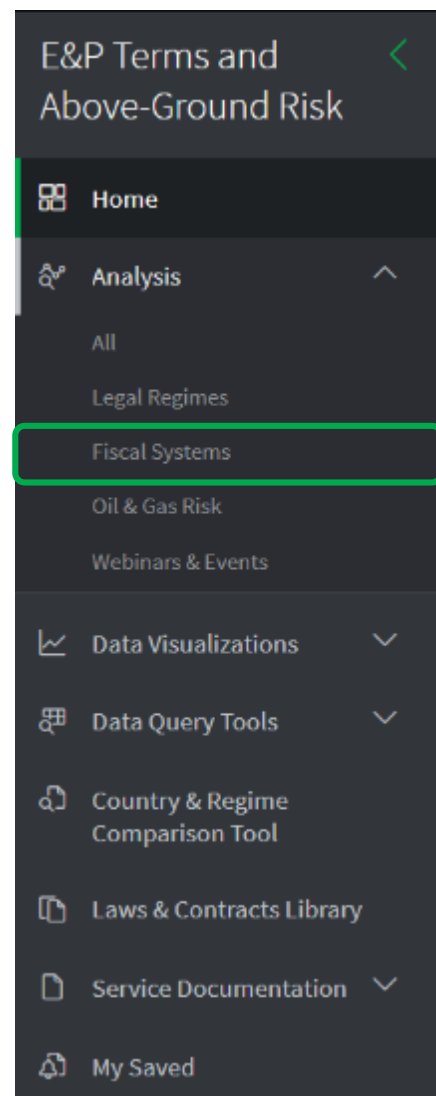
In Connect, hover over the **Energy** menu > **Upstream Oil and Gas** > click on **E&P Terms and Above-Ground Risk**.



The screenshot displays the IHS Markit Connect v6.0 interface. The top navigation bar includes a search bar and icons for help, bookmarks, and settings. The main menu features several categories: Agribusiness, Automotive, Chemical, Economics, **Energy**, Life Sciences, Maritime & Trade, Risk, and Geography. The **Energy** menu is highlighted, and its sub-menu is visible, showing **Upstream Oil and Gas**, Oil Markets, Midstream, and Downstream, Gas, Power, and Energy Futures, and Mobility Portal. The **Upstream Oil and Gas** sub-menu is further highlighted, revealing a list of options under the **RESEARCH & DATA** section, including **E&P Terms and Above-Ground Risk**, Plays and Basins, Costs and Technology, Companies and Transactions, Executive Dashboards, Key Play Analytics, M&A Analytics, Upstream Company Analytics, Upstream Costs and Technology Analytics, Forced Change Study, Upstream Regional (North America, Latin America, Asia Pacific), and Tools (E&P Attractiveness Ratings, Map, Company Metrics, Transaction Analysis, Assets on the Market, Energy Headline Analysis). The **RELATED** section lists Vantage, EDIN, Enerdeq, Chemical, Country Risk, Economics Costs and Prices, IHS Markit Webinars & Events, and CERAWEEK Conversations.

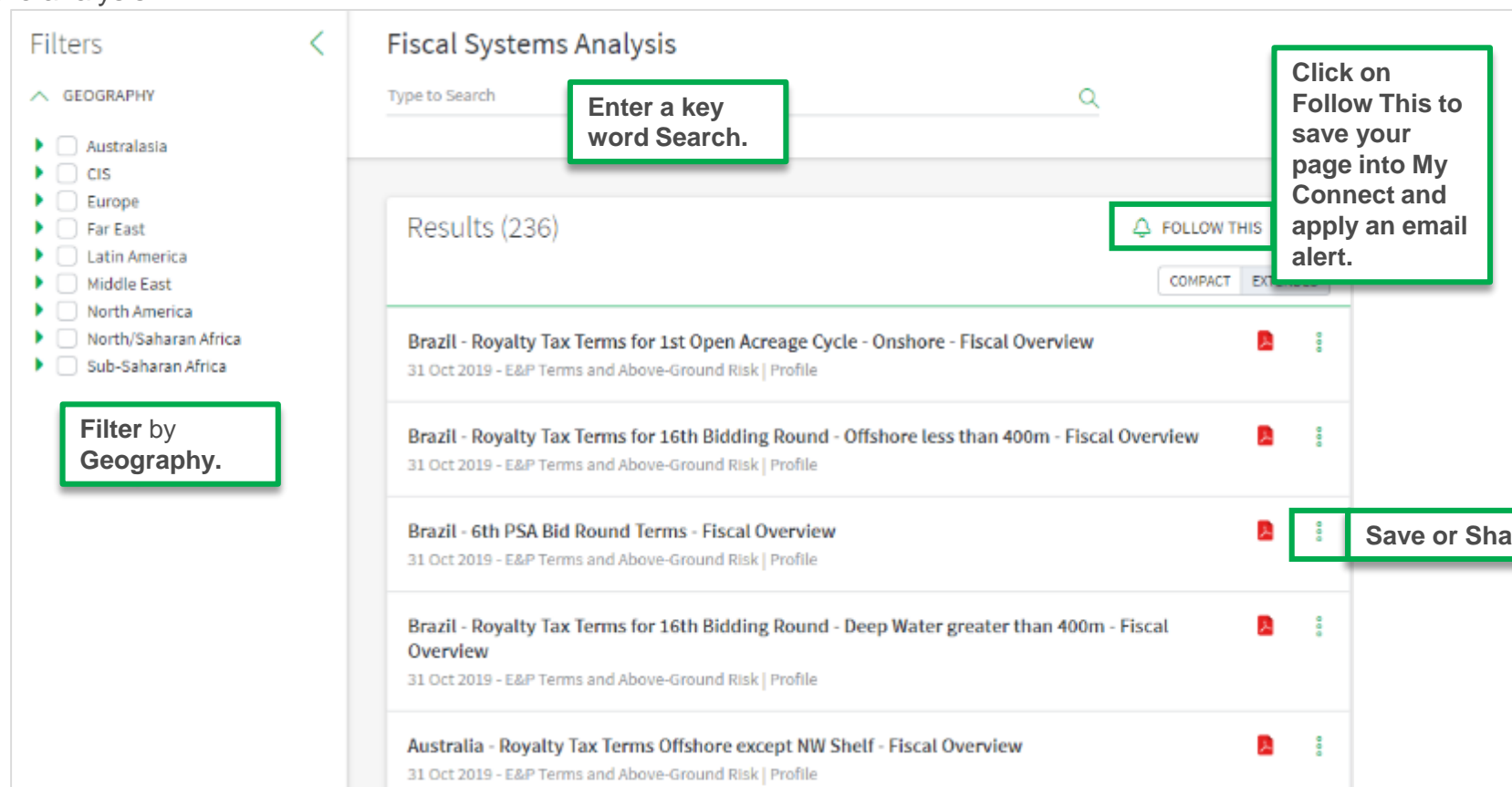


# Fiscal System Overview reports



In the **Analysis** section, click on **Fiscal Systems** to access **Fiscal System Overview reports**, which include:

- Details of fiscal terms for New E&P Ventures;
- Detailed analysis of fiscal terms with clear explanations, including IHS Markit analyst assumptions;
- References to the actual translated model contracts and legislation, enabling clients to see the legal documents underpinning the analysis.



**Fiscal Systems Analysis**

Type to Search

**Filters**

GEOGRAPHY

- ☐ Australasia
- ☐ CIS
- ☐ Europe
- ☐ Far East
- ☐ Latin America
- ☐ Middle East
- ☐ North America
- ☐ North/Saharan Africa
- ☐ Sub-Saharan Africa

**Results (236)**

**Brazil - Royalty Tax Terms for 1st Open Acreage Cycle - Onshore - Fiscal Overview**  
31 Oct 2019 - E&P Terms and Above-Ground Risk | Profile

**Brazil - Royalty Tax Terms for 16th Bidding Round - Offshore less than 400m - Fiscal Overview**  
31 Oct 2019 - E&P Terms and Above-Ground Risk | Profile

**Brazil - 6th PSA Bid Round Terms - Fiscal Overview**  
31 Oct 2019 - E&P Terms and Above-Ground Risk | Profile

**Brazil - Royalty Tax Terms for 16th Bidding Round - Deep Water greater than 400m - Fiscal Overview**  
31 Oct 2019 - E&P Terms and Above-Ground Risk | Profile

**Australia - Royalty Tax Terms Offshore except NW Shelf - Fiscal Overview**  
31 Oct 2019 - E&P Terms and Above-Ground Risk | Profile

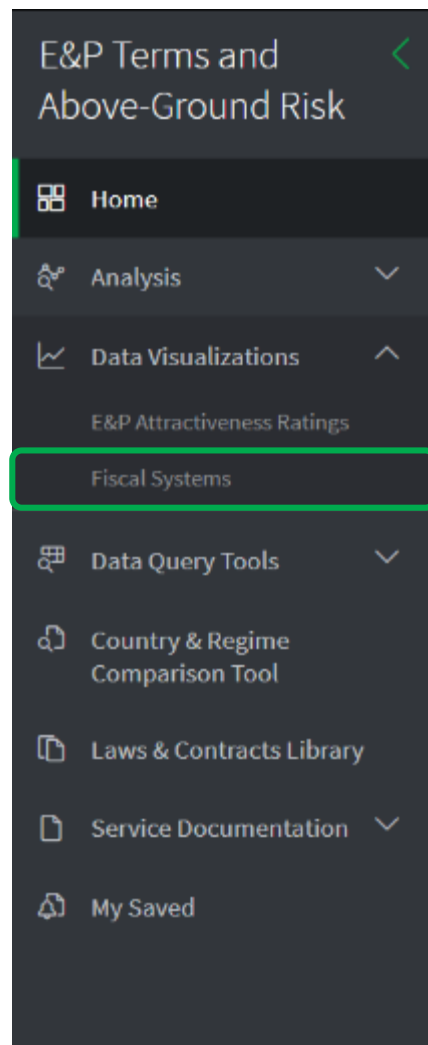
**Enter a key word Search.**

**Filter by Geography.**

**Click on Follow This to save your page into My Connect and apply an email alert.**

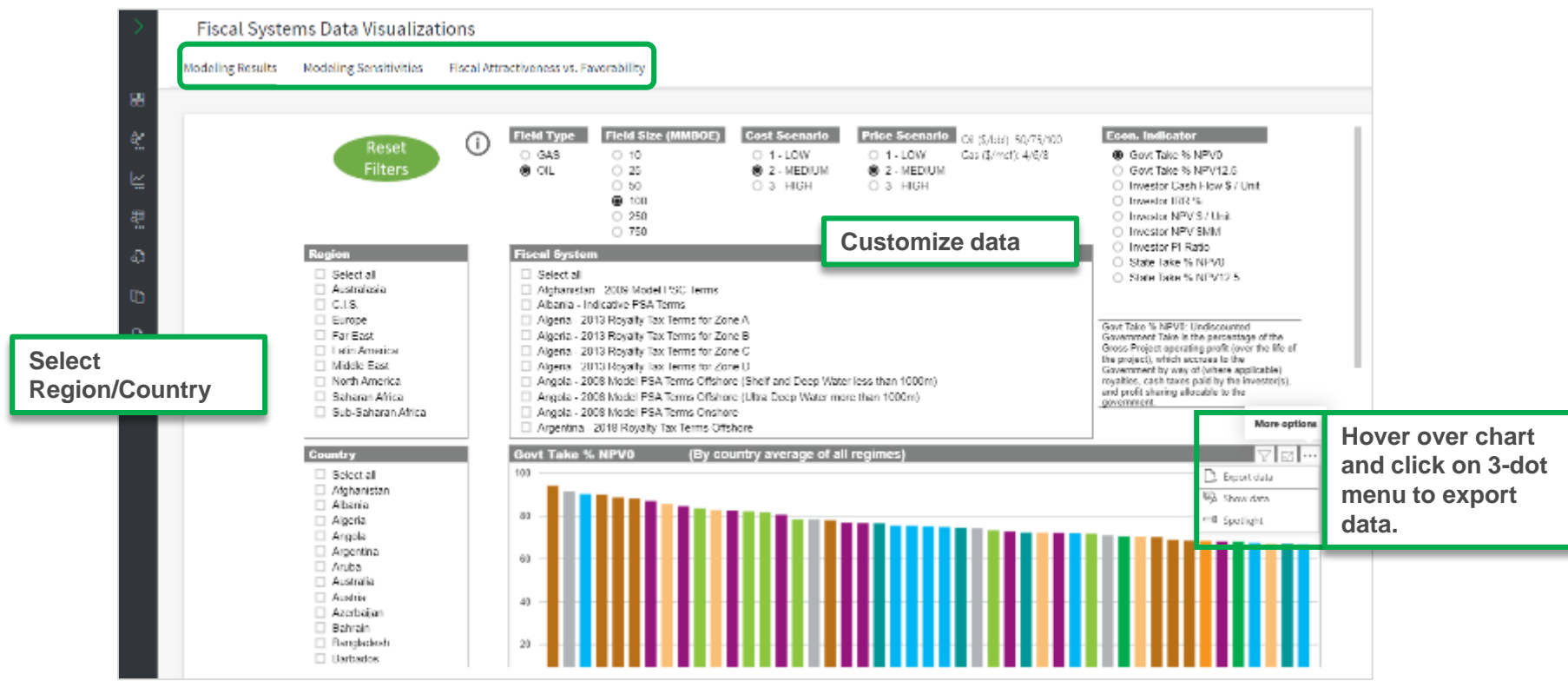
**Save or Share**

# (Fiscal) Benchmarking Analysis Tools



In the **Data Visualizations** section, click on **Fiscal Systems** to access the **Fiscal System benchmarking analysis tool**. Toggle between:

- **Modeling Results:** Visualize the modeling results of 225+ fiscal regimes, analyze all relevant economic metrics (Gov. Take, NPV, IRR, and more).
- **Modeling Sensitivities:** Understand the degree of progressivity / regressivity by comparing the results across multiple scenarios (relative to Cost, Price, Field size).
- **Attractiveness vs. Exploration Favorability:** Visualize the relative attractiveness of a country's fiscal system (as represented by the different fiscal system ratings) compared to IHS Markit's overall assessment of a country's relative exploration favorability (using the same 1 – 10 scale).



# (Fiscal) Data Query Tool: Terms At-A-Glance and Modeling Results

In the **Data Query Tools** section, click on **Fiscal Systems** to access a snapshot view of key fiscal mechanisms for all covered regimes with the **Terms At-A-Glance** section.

Click the **Modeling Results** option to export calculated economic metrics for hypothetical field profiles. Apply the available filters to customize your query by Country, Contract Type, Field Situation and more. Click **Submit** to confirm.

E&P Terms and Above-Ground Risk
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Fiscal Systems Query Tool

Terms At-A-Glance
Modeling Results

Selecting a different resource may reset some filters

Geography:
All geographies
Contract Type:
All contract types
Situation:
All situations
Royalty:
All cases
State Participation:
All cases

SAVE AS...
Click Save As to save into My Saved.

RESET ALL
CANCEL
SUBMIT

Terms At-A-Glance

EXPORT...

Region	Country/Territory	Fiscal Regime	Vintage	Contract Type	Situation	Filter...
Latin America	French Guiana	French Guiana - Royalty Tax Ter...	N/A	Royalty Tax (RoyTax)	ON	<div> Region Country/Territory Fiscal Regime Vintage Contract Type </div>
North America	Canada	Canada - Nova Scotia Generic ...	N/A	Royalty Tax (RoyTax)	OFF	
Far East	Bangladesh	Bangladesh - Production Sharing ...		Production Sharing Agreement ...	ON	
Far East	Bangladesh	Bangladesh - Production Sharing ...		Production Sharing Agreement ...	DW	

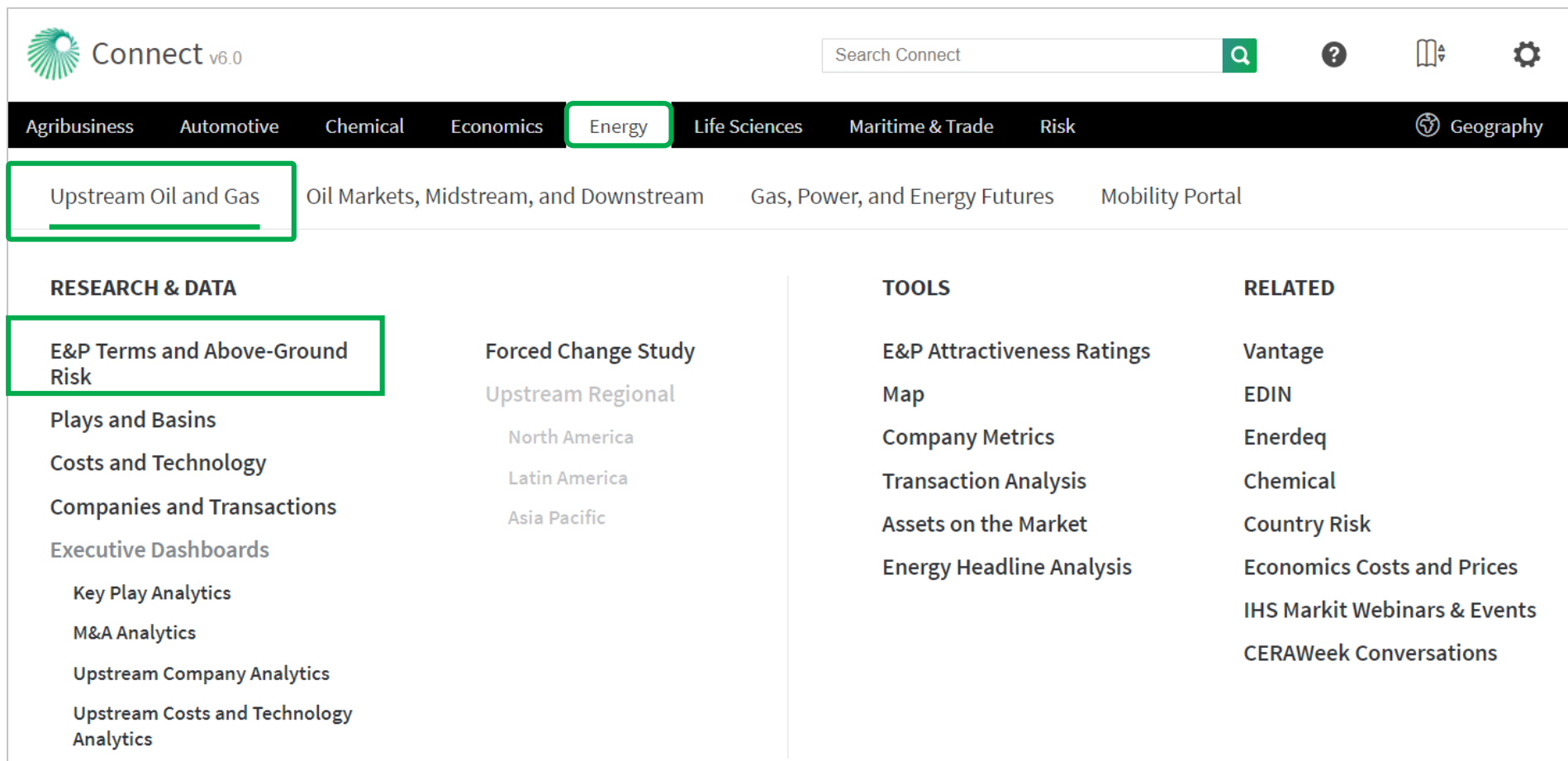
Filter and Export data.

Columns can be "grabbed" and moved to a different order

# PEPS Oil & Gas Risk

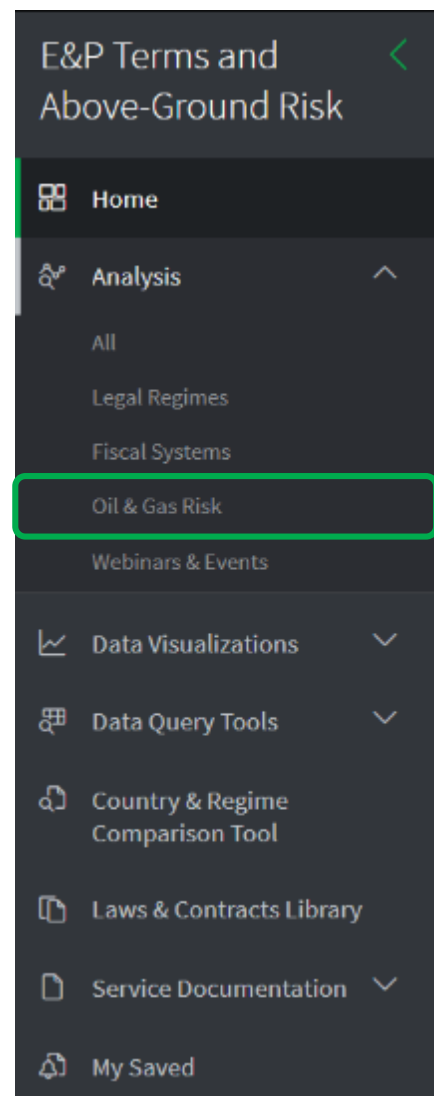
## Access PEPS in Connect

In Connect, hover over the **Energy** menu > **Upstream Oil and Gas** > click on **E&P Terms and Above-Ground Risk**.



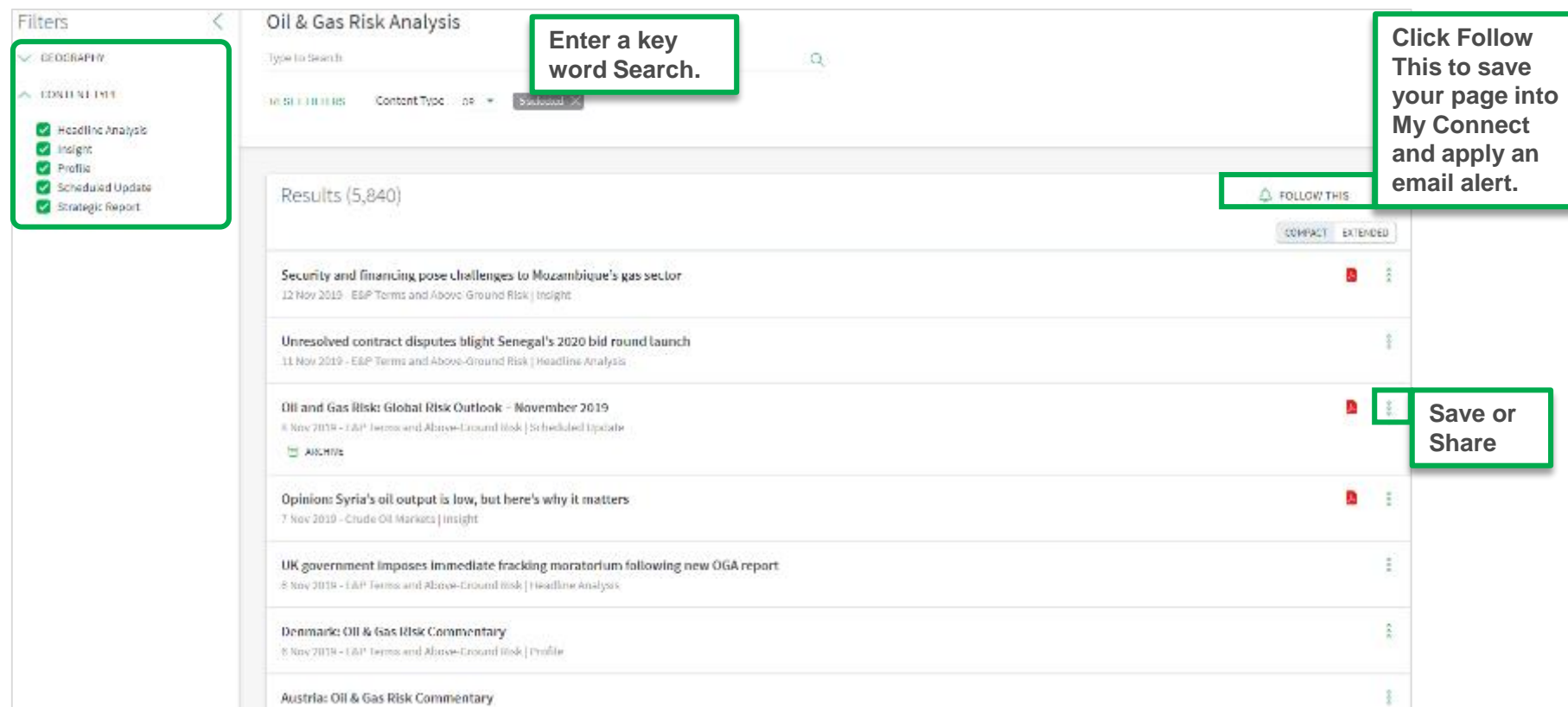
The screenshot displays the IHS Markit Connect v6.0 interface. The top navigation bar includes a search bar and icons for help, bookmarks, and settings. The main navigation menu features categories: Agribusiness, Automotive, Chemical, Economics, **Energy**, Life Sciences, Maritime & Trade, Risk, and Geography. The **Energy** menu is expanded, showing sub-options: Upstream Oil and Gas, Oil Markets, Midstream, and Downstream, Gas, Power, and Energy Futures, and Mobility Portal. The **Upstream Oil and Gas** sub-menu is further expanded, revealing a list of options under the 'RESEARCH & DATA' section. The 'E&P Terms and Above-Ground Risk' option is highlighted. Other options in this section include Plays and Basins, Costs and Technology, Companies and Transactions, Executive Dashboards, Key Play Analytics, M&A Analytics, Upstream Company Analytics, Upstream Costs and Technology Analytics, Forced Change Study, Upstream Regional (with sub-options for North America, Latin America, and Asia Pacific), and a TOOLS section with E&P Attractiveness Ratings, Map, Company Metrics, Transaction Analysis, Assets on the Market, and Energy Headline Analysis. A RELATED section on the right lists Vantage, EDIN, Enerdeq, Chemical, Country Risk, Economics Costs and Prices, IHS Markit Webinars & Events, and CERAWEEK Conversations.

# Oil & Gas Risk: Research Deliverables



Under the Analysis section, click on **Oil & Gas Risk** to access the **Oil & Gas Risk** research deliverables. Apply filters:

- **Profile** for **Country Profiles** and **Risk Commentaries**.
- **Scheduled Update** for **Oil & Gas Risk Quarterlies**.
- **Insight** and **Strategic Report** for ad-hoc analysis of changes to energy policy, investor relations and operational risks tied into OGRS risk factors.



**Filters**

- ☒ GEOGRAPHY
- ☒ CONTENT TYPE
  - ☒ Headline Analysis
  - ☒ Insight
  - ☒ Profile
  - ☒ Scheduled Update
  - ☒ Strategic Report

**Oil & Gas Risk Analysis**

Type to Search

RESULTS Content Type on Scheduled

**Results (5,840)**

**Security and financing pose challenges to Mozambique's gas sector**  
12 Nov 2019 - E&P Terms and Above-Ground Risk | Insight

**Unresolved contract disputes blight Senegal's 2020 bid round launch**  
11 Nov 2019 - E&P Terms and Above-Ground Risk | Headline Analysis

**Oil and Gas Risk: Global Risk Outlook - November 2019**  
8 Nov 2019 - E&P Terms and Above-Ground Risk | Scheduled Update

**Opinion: Syria's oil output is low, but here's why it matters**  
7 Nov 2019 - Crude Oil Markets | Insight

**UK government imposes immediate fracking moratorium following new OGA report**  
8 Nov 2019 - E&P Terms and Above-Ground Risk | Headline Analysis

**Denmark: Oil & Gas Risk Commentary**  
8 Nov 2019 - E&P Terms and Above-Ground Risk | Profile

**Austria: Oil & Gas Risk Commentary**

**Enter a key word Search.**

**Click Follow This to save your page into My Connect and apply an email alert.**

**Save or Share**

# (OGR) Country & Regime Comparison Tool: Oil & Gas Risk Commentaries

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My Saved

Click on the **Country & Regime Comparison Tool** to quickly compare **Risk Commentaries** providing rationales behind the ratings for any of the 21 different risk factors for a given set of countries.

Select **Oil & Gas Risk Commentary** from the **Resource** drop-down box. Then select **Countries** and **Report Sections** of interest. Click **Submit** to view **Results**.

Select the checkboxes under Results to group and export.

Country & Regime Comparison Tool

Resource
Legal and Contractual Terms
Oil & Gas Risk Commentary
Country/Territory
Report Sections
Government

RESET ALL
CANCEL
SUBMIT

Results (89)

☐
☒
☒
☐

Country/Territory	Topic	Title	Summary Text	Published Date
Venezuela, Bolivarian Republic of	Hydrocarbon Sector Entry	Government Take	Government take for Venezuela is based on Indicative royalty tax terms under the 2006 Hydrocarbons Organic Law and the 2006 Model Contract and compares unfavourably to regional peers. In August 2018, Venezuela announced in its official gazette that PDVSA, its affiliates, and its joint-venture (JV) partners would be exempted from the Petroleum Corporate Income Tax – a 50% tax on Income derived from oil production activities. The exemption only applied from 1 January 2018 through 31 December 2018....	03 Oct 2019
Argentina	Hydrocarbon Sector Entry	Government Take	Government take for Argentina is based on the 2018 Royalty Tax Terms. This includes a standard royalty rate of 12% and a 35% tax on profits (effective combined rate of income tax and tax on repatriated profits). Congress approved a tax reform in December 2017 that will bring about a gradual reduction of the corporate income tax rate for companies that reinvest profits to 30% for 2018 and 2019 and 25% from 2020. The effective rate will remain at 35% for profits that are not reinvested in the coun....	03 Oct 2019
Ukraine	Hydrocarbon Sector Entry	Government Take	Government take for Ukraine is "high" (classified as between 65% and 85%, according to IHS Markit methodology), based on royalty tax terms according to the provisions of the 2010 tax code.	30 Sep 2019

Select checkboxes and Export data.

EXPORT...



# PEPS Country Activity & Success



# Country E&P Activity and Success: License Awards and E&P Data

E&P Terms and Above-Ground Risk
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Under the **Data Query Tools** section, select **Country Activity & Success** option to access annual summaries of past exploration awards and licensing activity, as well as annual results of E&P activity and exploration success.

In the Resource drop-down menu, select **Awards** or **Country E&P data**. Apply relevant filters. Click **Submit** to access results.

Country Activity & Success Query Tool

Resource: Awards
Search...

Geography: Country E&P Data
Basin Name: All basins
Contract Holder: All contract holders
Contract Name: All contract names

Award Type: All categories
Award Valuation: All categories
Situation: All situations

RESET ALL
CANCEL
SUBMIT

SAVE AS...

Click Save As to save into My Saved.

Select date range.

Awards
From: Pick date
To: Pick date
All dates are in UTC

Filter and Export data.

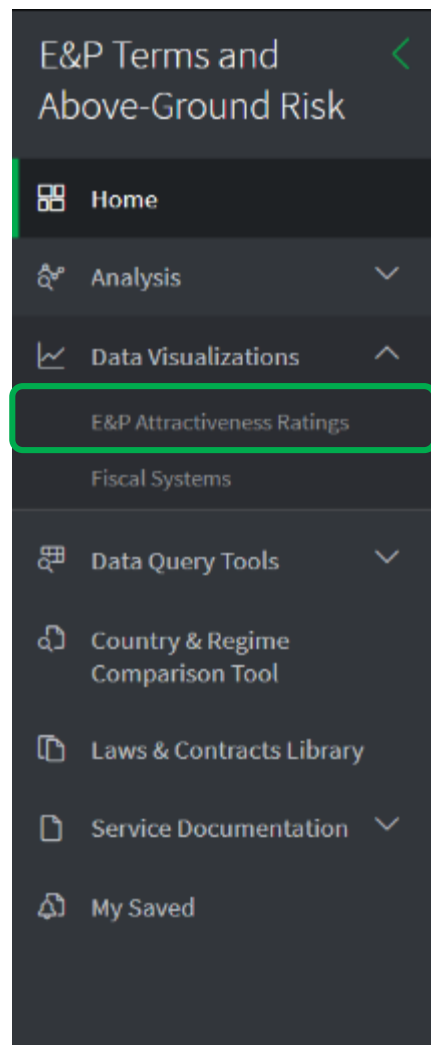
EXPORT...

Columns can be "grabbed" and moved to a different order

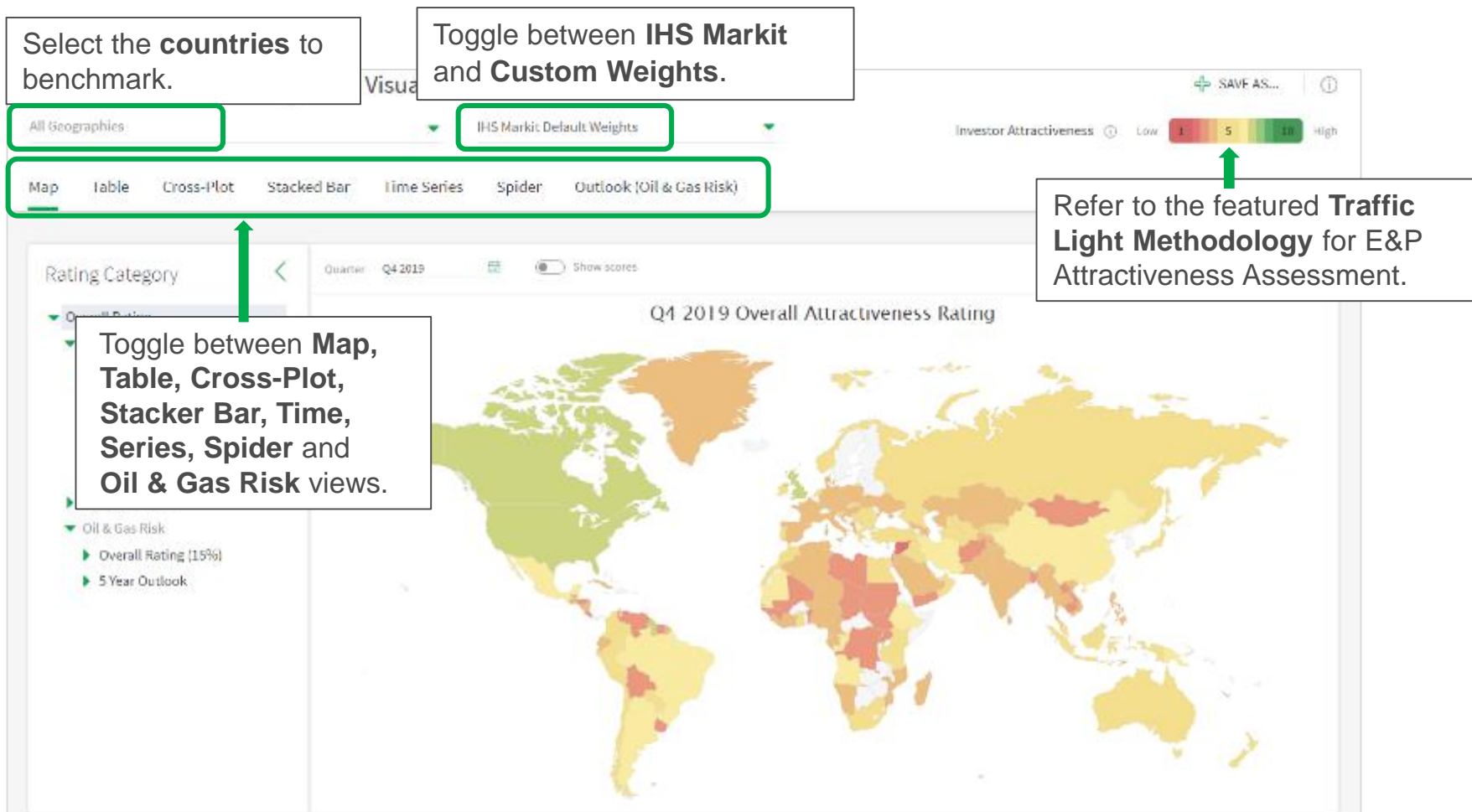
Date	Category	Region	Country/Territory	Basin Name	Situation
2009-03-01	Development	Latin America	Venezuela	East Venezuela	
2008-02-01	Exploration			Western Siberia	
2008-01-01	Exploration			Neuquen	
2003-06-01	Unvalued (Exploration)			Nile Delta	
2008-04-01	Exploration			Neuquen	

# Attractiveness Ratings Benchmark Analysis Tools

# E&P Attractiveness Ratings Tools: Common Components



In the **Data Visualization** section, select **E&P Attractiveness Ratings tool** to visualize, customize and export the **IHS Markit E&P Attractiveness Ratings** across multiple risk factors and categories using multiple benchmarking tools.



# E&P Attractiveness Ratings Tools: Weighting Scenario Selector

E&P Terms and Above-Ground Risk

- Home
- Analysis
- Data Visualizations
- E&P Attractiveness Ratings**
- Fiscal Systems
- Data Query Tools
- Country & Regime Comparison Tool
- Laws & Contracts Library
- Service Documentation
- My Saved

## E&P Attractiveness Ratings Data Visualizations

All Geographies

Investor Attractiveness ⓘ Low

Map Table Cross-Plot Stacked Bar Time Series

Rating Category

- Overall Rating
  - Activity & Success
    - Overall Rating (50%)
  - Fiscal Systems
    - Overall Rating (35%)
  - Oil & Gas Risk
    - Overall Rating (15%)
    - 5 Year Outlook

Quarter Q4 2019

+

-

Standard Weights

**IHS Markit Default Weights**

Alternative Weights

Above-Ground Focus

Custom Weights

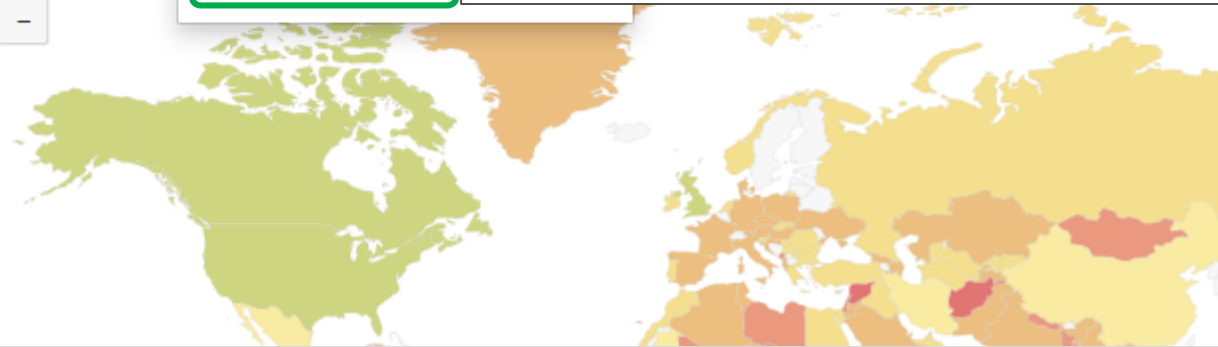
**NEW CUSTOM WEIGHTS**

Default is the standard weighting scenario.

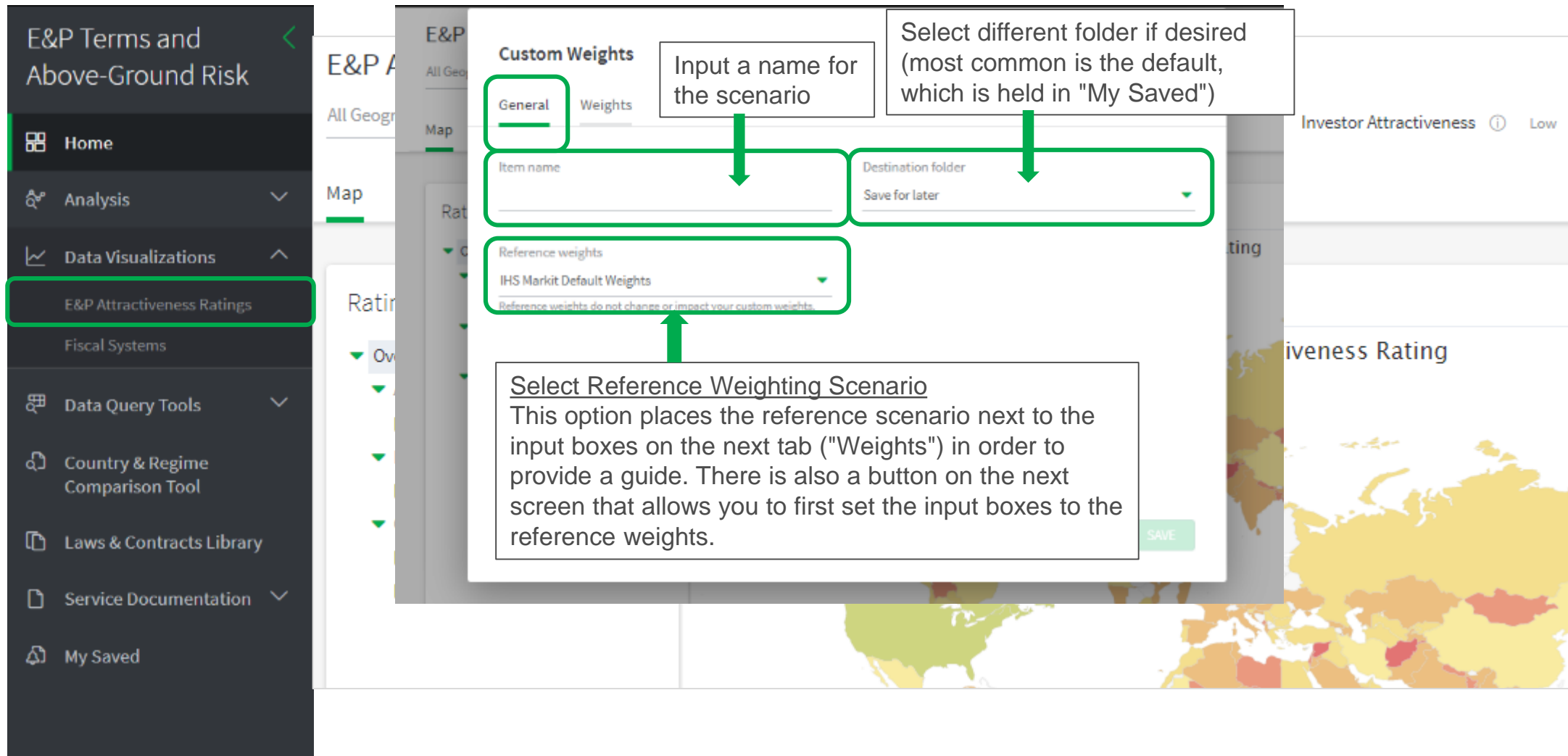
Quick click to a scenario that excludes Activity & Success.

Click here to **create a new weighting** scenario.

Overall Attractiveness Rating



# E&P Attractiveness Ratings Tools: Creating a New Weighting Scenario



The screenshot displays the E&P Attractiveness Ratings Tools interface. On the left, a dark sidebar contains a menu with the following items: Home, Analysis, Data Visualizations, **E&P Attractiveness Ratings** (highlighted with a green box), Fiscal Systems, Data Query Tools, Country & Regime Comparison Tool, Laws & Contracts Library, Service Documentation, and My Saved.

The main content area shows the 'Custom Weights' tab, which is divided into two sub-tabs: 'General' and 'Weights'. The 'General' sub-tab is active and contains the following fields:

- Item name:** A text input field with a green arrow pointing to it from the annotation 'Input a name for the scenario'.
- Destination folder:** A dropdown menu with 'Save for later' selected, with a green arrow pointing to it from the annotation 'Select different folder if desired (most common is the default, which is held in "My Saved")'.
- Reference weights:** A dropdown menu with 'IHS Markit Default Weights' selected, with a green arrow pointing to it from the annotation 'Select Reference Weighting Scenario'.

A green 'SAVE' button is located at the bottom right of the 'General' sub-tab.

The background of the interface shows a map of the world with various regions highlighted in different colors (yellow, orange, red, green), representing different attractiveness ratings. The text 'Investor Attractiveness' and 'Low' are visible on the right side of the map.

**Annotations:**

- Input a name for the scenario:** Points to the 'Item name' input field.
- Select different folder if desired (most common is the default, which is held in "My Saved"):** Points to the 'Destination folder' dropdown menu.
- Select Reference Weighting Scenario:** Points to the 'Reference weights' dropdown menu. Below this, a text box explains: 'This option places the reference scenario next to the input boxes on the next tab ("Weights") in order to provide a guide. There is also a button on the next screen that allows you to first set the input boxes to the reference weights.'

# E&P Attractiveness Ratings Tools: Creating a New Weighting Scenario (cont'd)

E&P Terms and Above-Ground Risk

- Home
- Analysis
- Data Visualizations
- E&P Attractiveness Ratings**
- Fiscal Systems
- Data Query Tools
- Country & Regime Comparison Tool
- Laws & Contracts Library
- Service Documentation
- My Saved

Custom Weights

General

**Weights**

EXPAND ALL

COLLAPSE ALL

Activity & Success Overall Rating

0 50

Daily Production Overall

10 10

Remaining Reserves Overall

10 10

5-Year Activity Overall

10 10

5-Year Success Overall

70 70

Fiscal Systems Overall Rating

0 35

State Take Overall

5 5

Government Take Overall

5 5

Investor NPV 12.5% \$/bbl Overall

20 20

Investor Cash Flow \$/bbl Overall

5 5

Reference weights: Above-Ground Focus

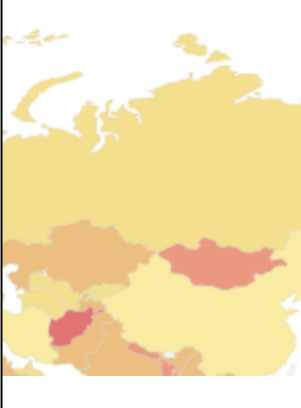
Set weights to reference

CANCEL

SAVE

or Attractiveness ⓘ Low

s Rating



# E&P Attractiveness Ratings Tools: Heat Map

## E&P Attractiveness Ratings Data Visualizations

All Geographies

IHS Markit Default Weights

Investor Attractiveness ⓘ Low 1 5 10 High

Map Table Cross-Plot Stacked Bar

Outlook (Oil & Gas Risk)

Adjust the quarter for the ratings issue

Toggle to hide or display ratings

EXPORT...

Export map to PDF or Image.

### Rating Category

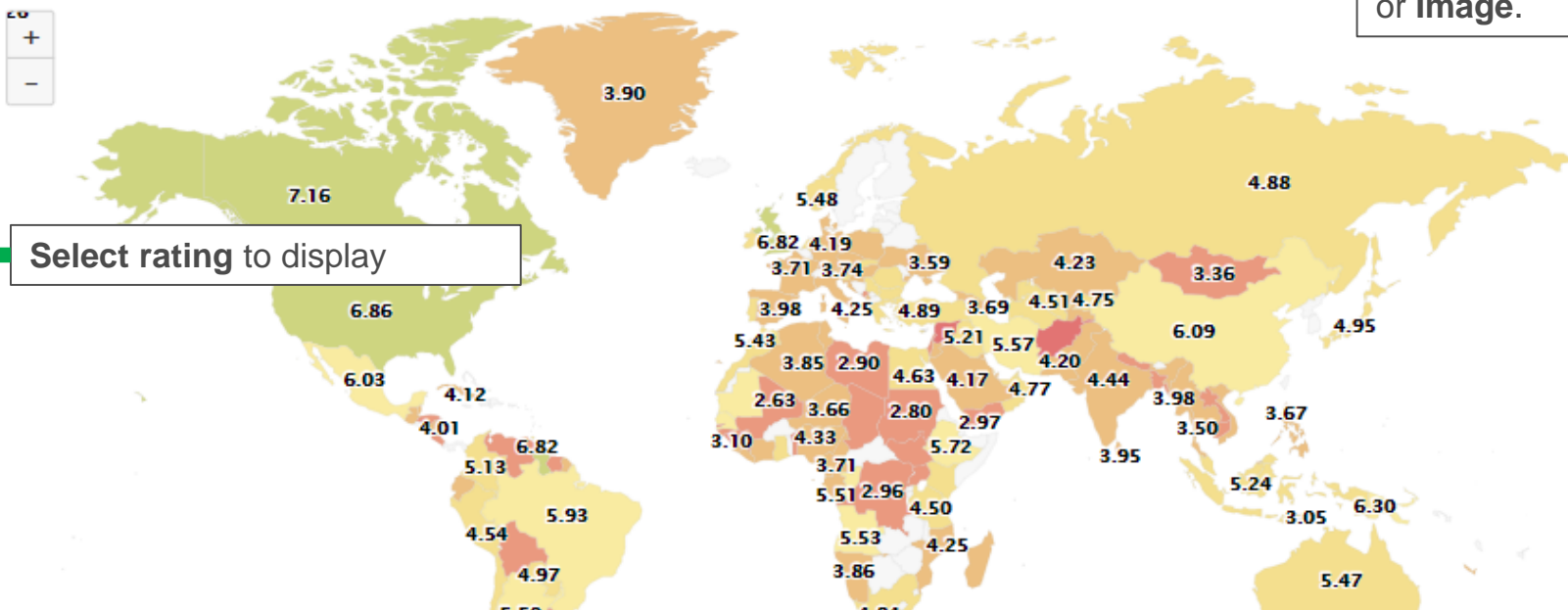
- Overall Rating
  - Activity & Success
    - Overall Rating (50%)
  - Fiscal Systems
    - Overall Rating (35%)
  - Oil & Gas Risk
    - Overall Rating (15%)
      - Politics (20%)
      - Economics (20%)
      - Hydrocarbon Sector Entry (20%)
      - Hydrocarbon Sector Operations (25%)
      - Hydrocarbon Sector Shocks (15%)
    - 5 Year Outlook

Quarter Q4 2019

Show scores

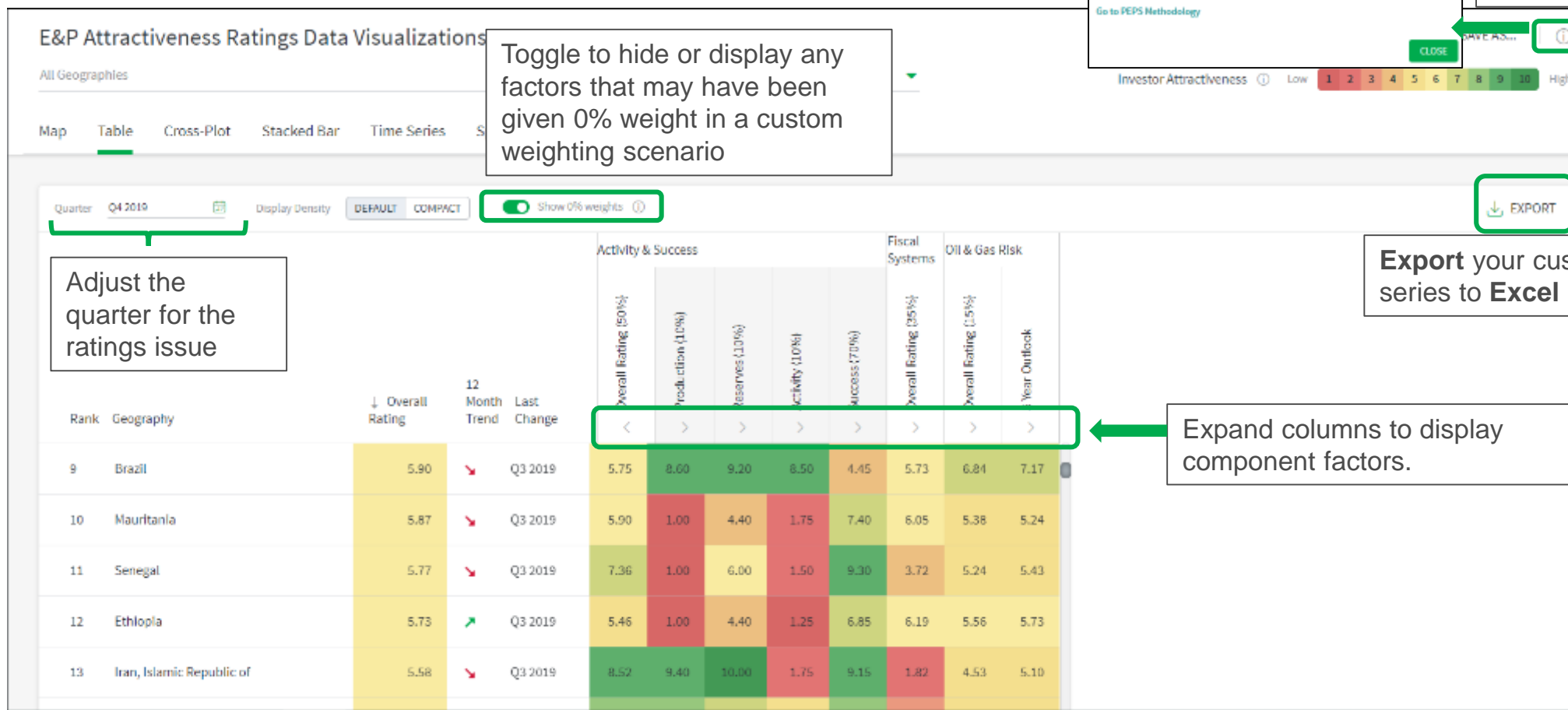
Select rating to display

### Q4 2019 Overall Attractiveness Rating





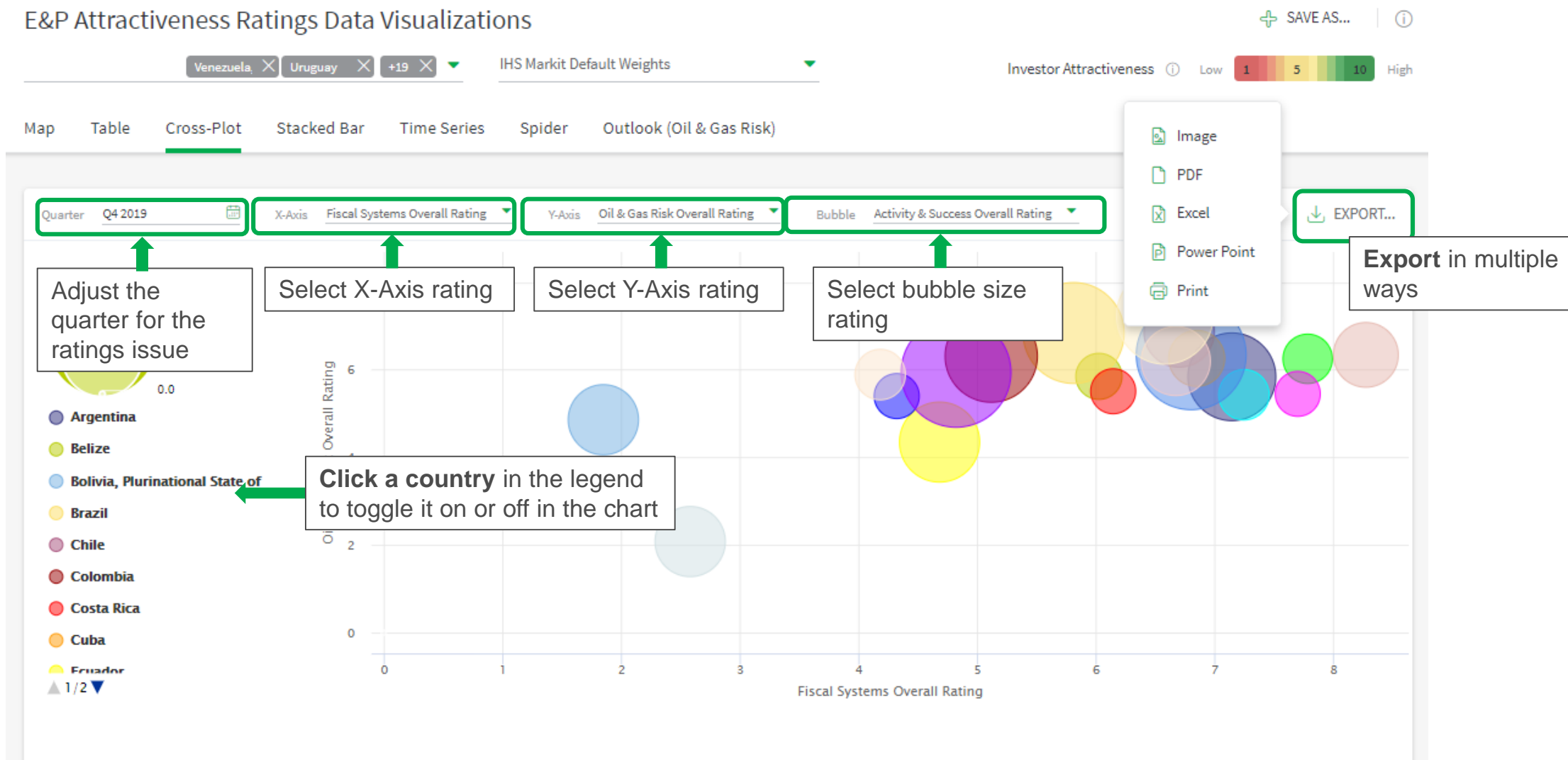
# E&P Attractiveness Ratings Tools: Heat Table





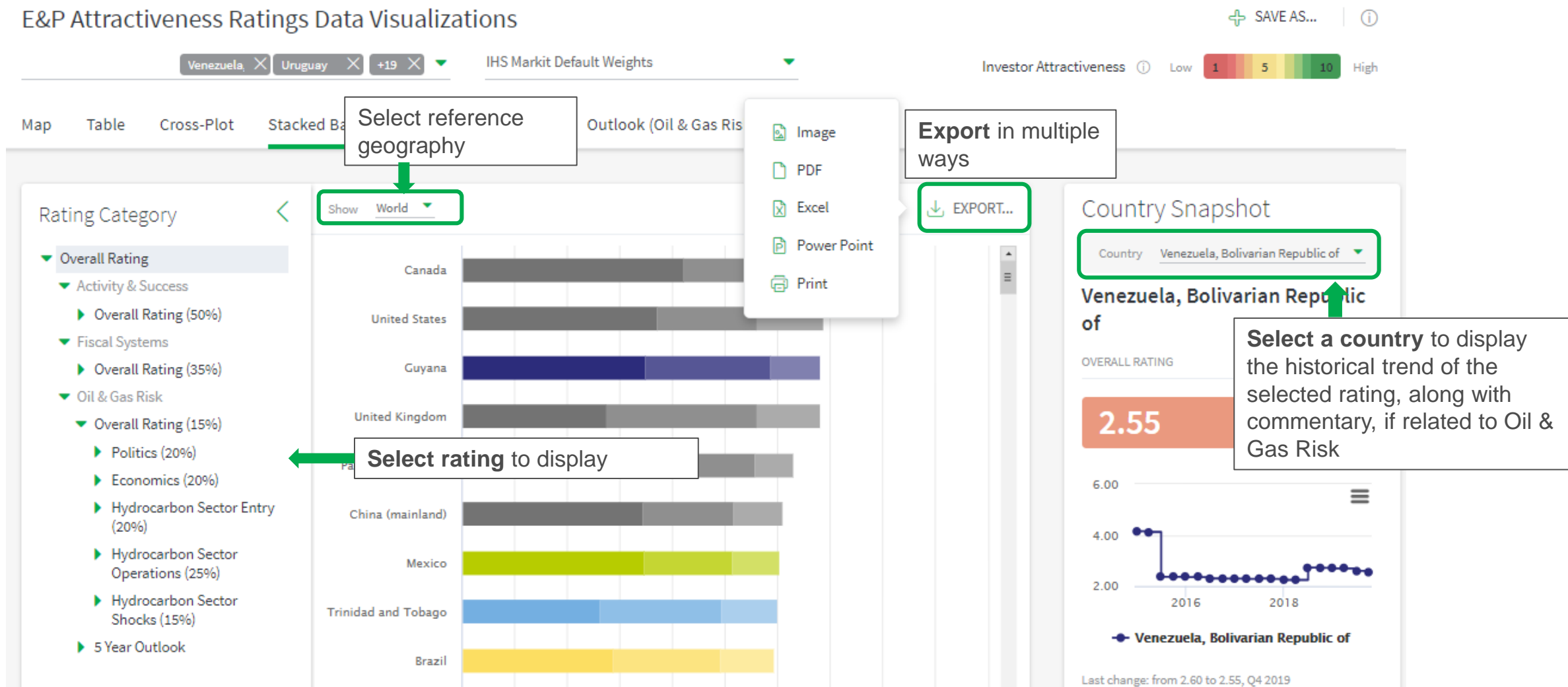
# E&P Attractiveness Ratings Tools: Cross-Plot

## E&P Attractiveness Ratings Data Visualizations



# E&P Attractiveness Ratings Tools: Stacked Bar

## E&P Attractiveness Ratings Data Visualizations



# E&P Attractiveness Ratings Tools: Time Series

## E&P Attractiveness Ratings Data Visualizations

+ SAVE AS... | ⓘ

Venezuela X Uruguay X +19 X IHS Markit Default Weights

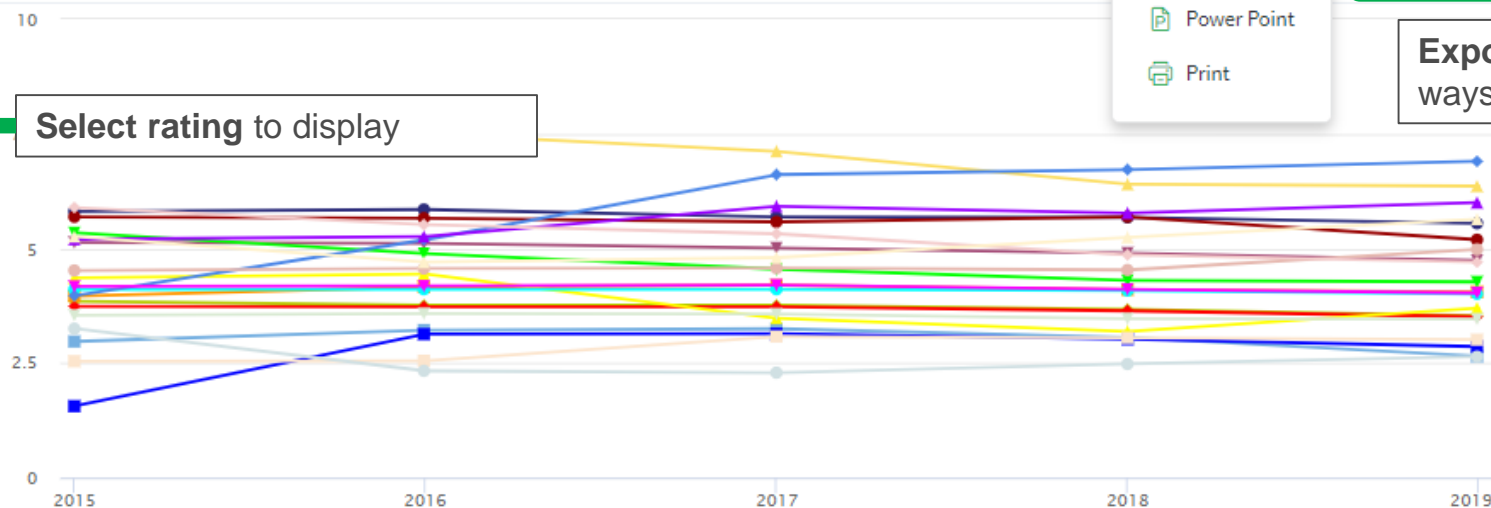
Investor Attractiveness ⓘ Low 1 5 10 High

Map Table Cross-Plot Stacked Bar Time Series Spider Outlook (Oil &amp; Gas Risk)

### Rating Category

- ▼ Overall Rating
  - ▼ Activity & Success
    - ▶ Overall Rating (50%)
  - ▼ Fiscal Systems
    - ▶ Overall Rating (35%)
  - ▼ Oil & Gas Risk
    - ▼ Overall Rating (15%)
      - ▶ Politics (20%)
      - ▶ Economics (20%)
      - ▶ Hydrocarbon Sector Entry (20%)
      - ▶ Hydrocarbon Sector Operations (25%)
      - ▶ Hydrocarbon Sector Shocks (15%)

Select rating to display



Click a country in the legend to toggle it on or off in the chart

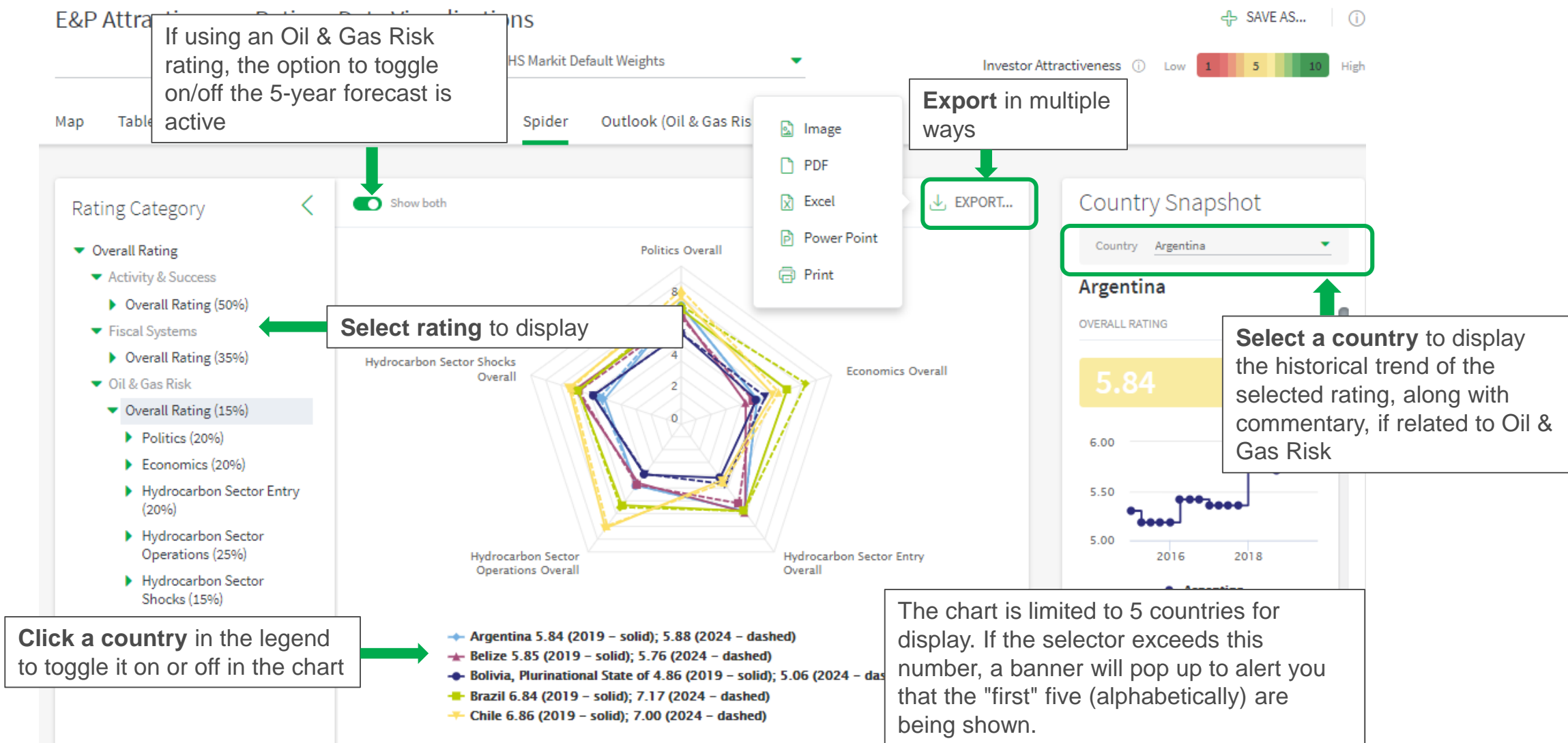
- Argentina
- Brazil
- Costa Rica
- France - French Guiana
- Honduras
- Paraguay
- Trinidad and Tobago
- Belize
- Chile
- Cuba
- Guatemala
- Mexico
- Peru
- Uruguay
- Bolivia, Plurinational State of
- Colombia
- Ecuador
- Guyana
- Nicaragua
- Suriname
- Venezuela, Bolivarian Republic of

- Image
- PDF
- Excel
- Power Point
- Print

EXPORT...

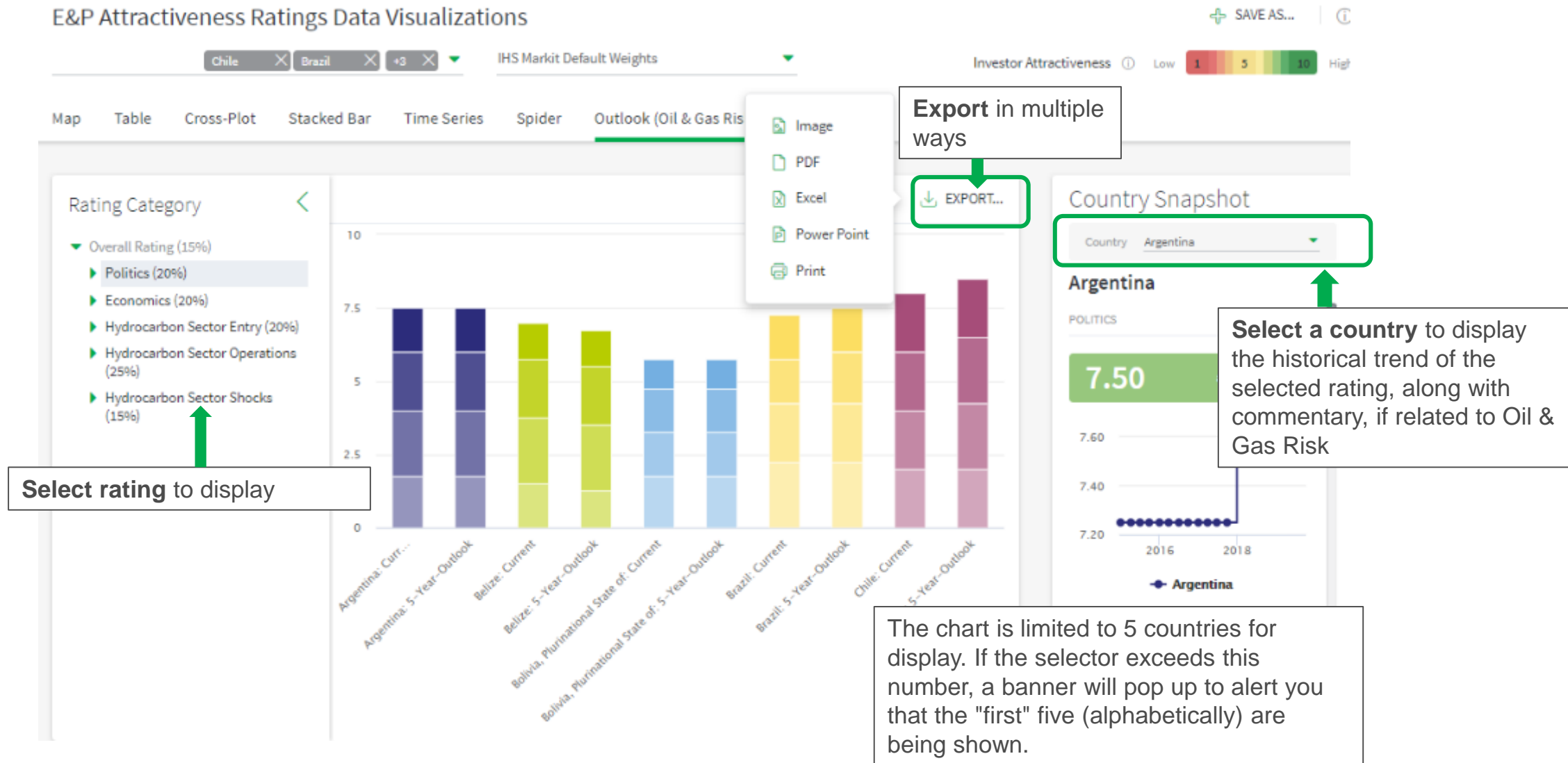
Export in multiple ways

# E&P Attractiveness Ratings Tools: Time Series



# E&P Attractiveness Ratings Tools: Oil & Gas Risk 5-Year Forecast Stacked Bar Chart

## E&P Attractiveness Ratings Data Visualizations

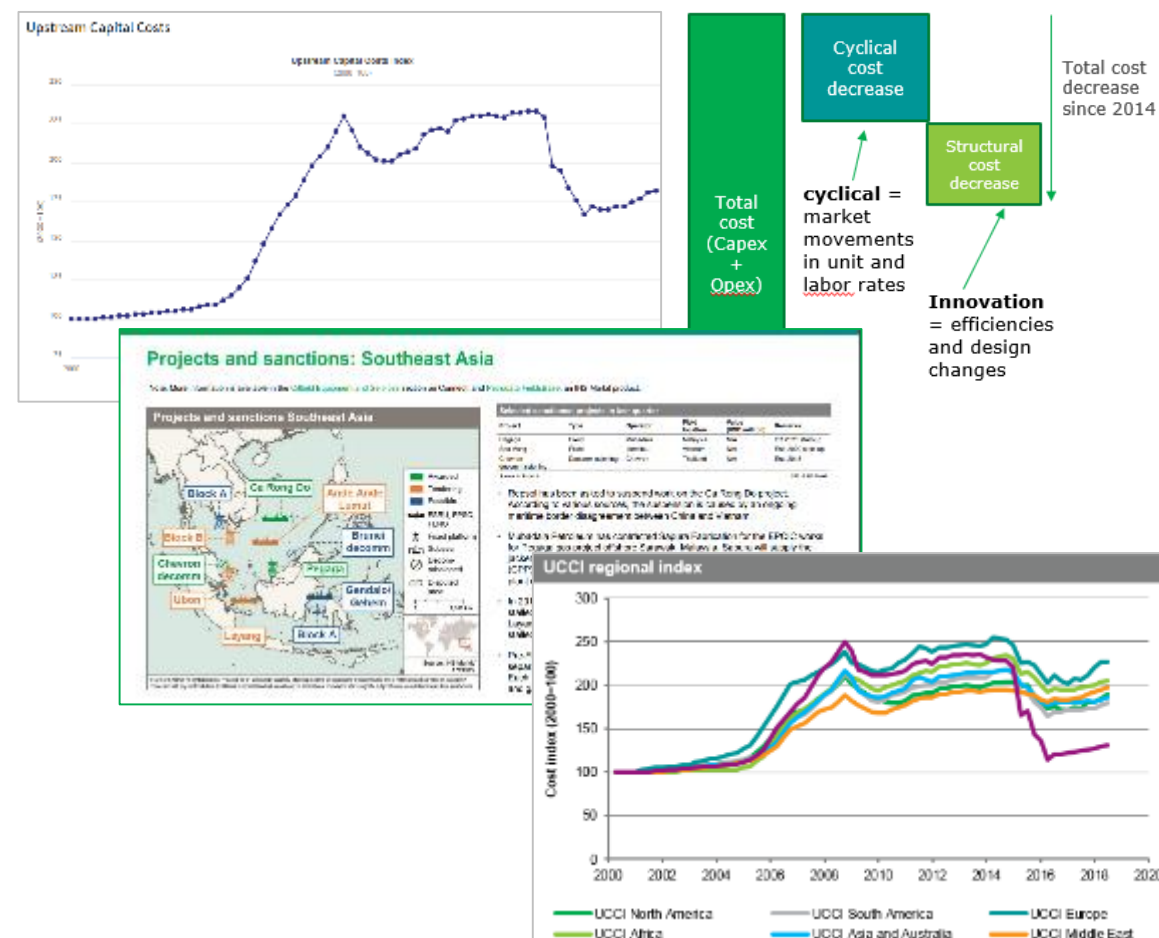


# Costs and Technology

Costs & Expenditures  
Oilfield Equipment & Services  
Technology & Innovation

# Global Upstream Costs & Expenditures Deliverables

- **Upstream Capital Costs Index:** Quarterly UCCI workbook updates, quarterly CAPEX market reviews, semi-annual Upstream Costs workshop and ad hoc insights
- **Upstream Operating Costs Index:** Quarterly UOCI workbook updates, quarterly OPEX market reviews, semi-annual Upstream Costs workshop and ad hoc insights
- **Upstream Spending & Industry Trends:** 4x/year report updating 5-year spending outlooks built on a project by project basis, broken down by segment/region. Industry Trend reports covering global; APAC, Middle East, North Sea, North America and Latin America
- **North America Costs & Expenditures:** 4x/year report updating detailed regional 5-year spending outlook and 4x/year index workbook and review tracking and forecasting region/play cost escalation.
- **Latin America Costs & Supply Chain:** 4x/year cost index and periodic strategic sourcing analysis, ad-hoc insights, 1x/year workshop.
- +Upstream Innovation Index: closer scrutiny, benchmarking and anticipation of cyclical costs
- +Downstream Capital Costs Index
- **Webinars:** Delivered by the best IHS Markit energy thought leaders. *Ad-hoc at least 4 per year*





# Oilfield Equipment & Services Deliverables

- **Market Segment Analysis:** Reports updated 3x/year across more than 38 individual Upstream Market segments across 5 subscription bundles; Engineering & Fabrication; Subsea & Capital Equipment; Rig Markets Onshore Services & Materials and Offshore Services & Vessels. Each report provides analyses and forecasts on the supply, demand, market balance and cost developments, providing regional breakdowns and competitive analysis.
- **Cost Models:** Over 64 market segment costs models, updated quarterly, drawing from more than 350 raw data indexes, across engineering, labour, raw materials, bulks, equipment and other categories, indexed from 2003 forecasted out 5 years.
- **Material Price Tables & Headline Analysis**
- **Supply Chain Company Profiles:** 100+ profiles of key upstream suppliers and contractors, updated quarterly, with their associated data files. Provides valuable insight into vendor capabilities and performance, from a project activity and financial standpoint.
- **Supply Chain Company Online Search Tool:** High-level capability details for 1200+ suppliers and contractors, searchable by vendor name, region, equipment or services segment, capabilities and market position.

- **IHS Markit IQ Reports:** Provide detailed analysis and outlooks on a North American and global plays covering:

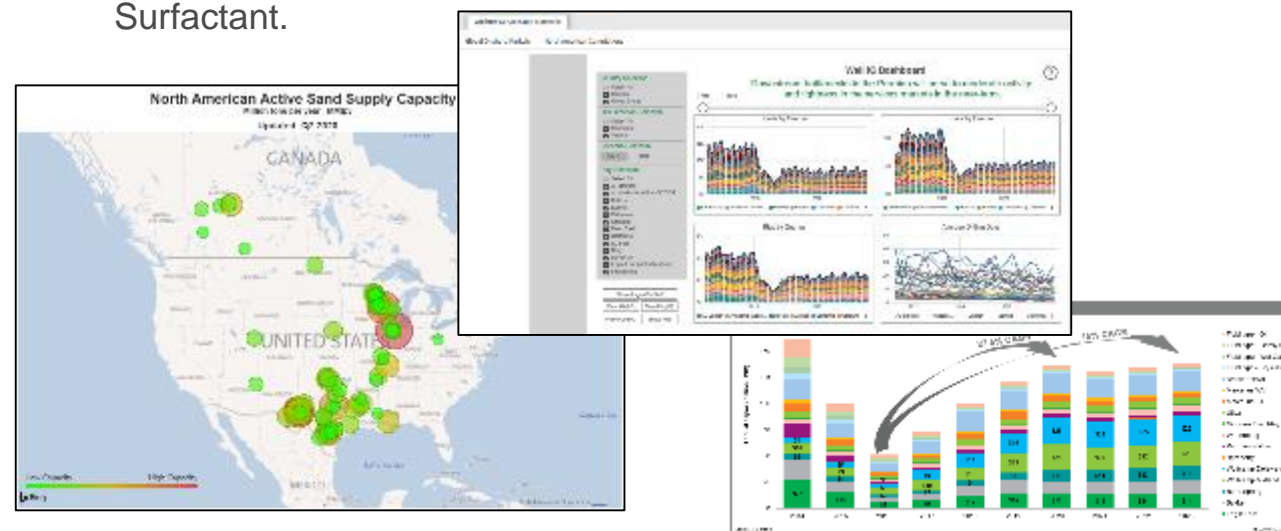
**WellIQ:** rig counts, well completions, wells frac'ed, frac stages, and stimulated length.

**WaterIQ:** Global fracturing services market and US oilfield water management market.

**ProppantIQ:** US proppant supply, demand, and pricing, by play and proppant type (sand, resin-coated sand, ceramics).

**PumpingIQ:** Facturing services markets includes frac demand, supply, utilization, pricing, constraints, market and technology trends and analysis of stacked versus active horsepower across key frac markets

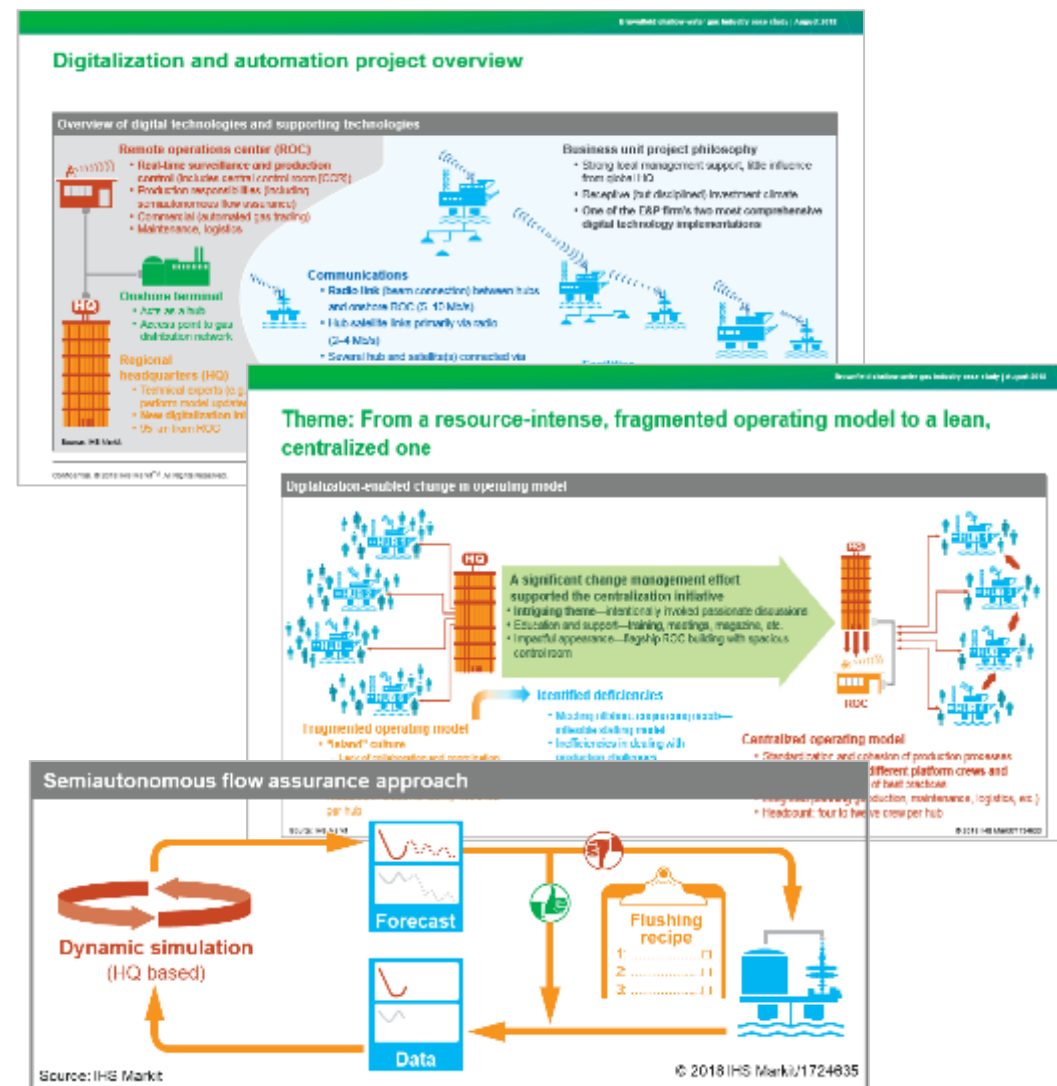
**ChemIQ:** 7 reports covering the most common frac chemicals; Biocide, Cross-linker, Friction reducer, Gelling agent, HCl, Scale inhibitor, and Surfactant.





# Technology & Innovation Deliverables

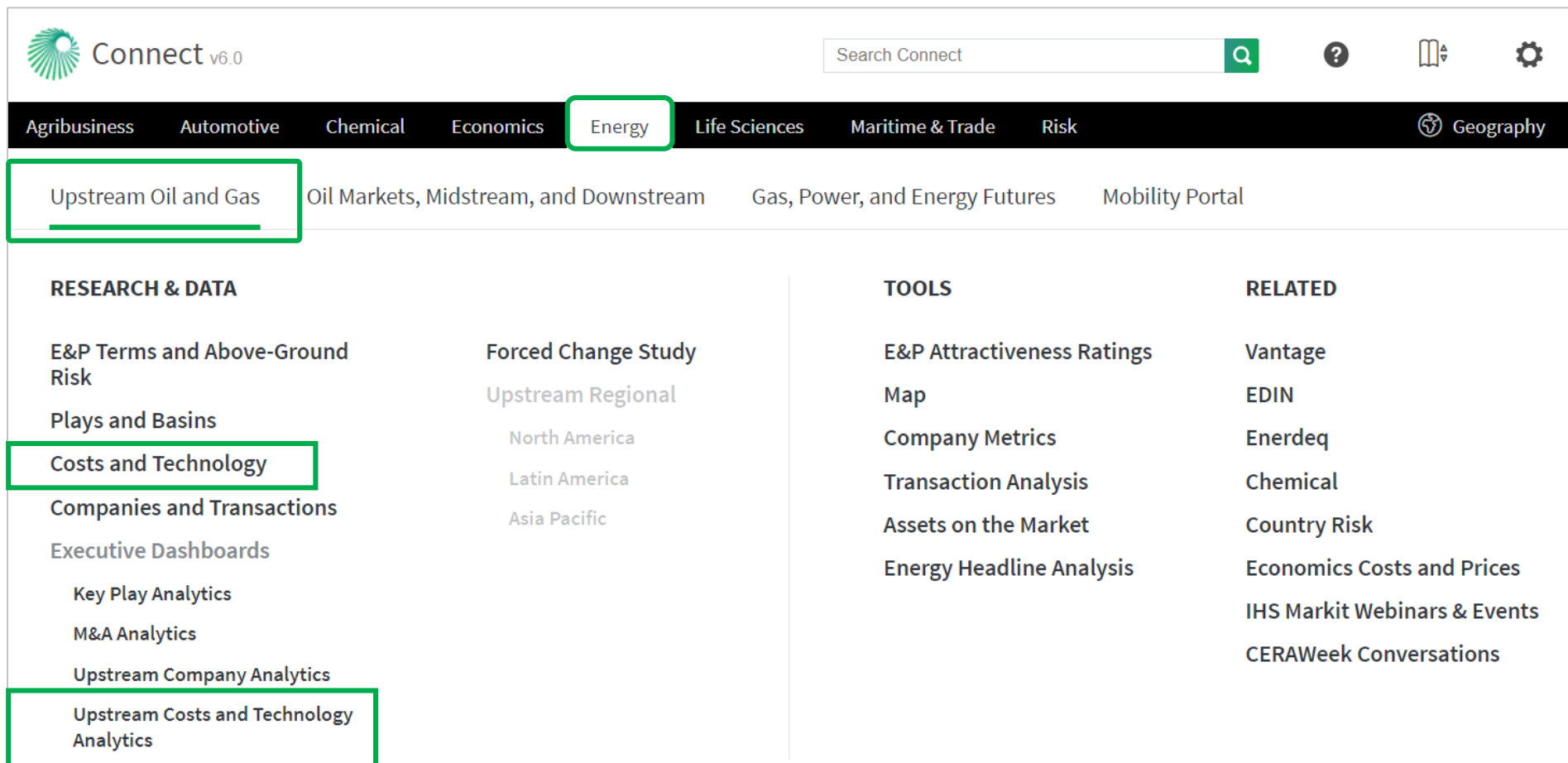
- **IHS Markit Oil & Gas Digitalization Workshops:** Semi-annual member workshops and associated research reports.
- **Technology Screening reports:** Quantifying technology impacts (e.g., recovery factor increase) by resource segment to provide guidance on investment and deployment prioritization.
- **Technology Trends reports:** Updates on technology development trends e.g. spending levels, areas of focus, sources of innovations and organizational strategy, along with the business and technical factors influencing them. Deep dives into key technology development trends along with guidance on how best to position one's organization to benefit from them. Best practices for accelerating technology adoption by shortening the cycle from field piloting to broad deployment, reinforced by actual industry case studies.
- **Special reports and insights**



# Access Costs & Technology in Connect

In Connect, hover over the **Energy** menu > **Upstream Oil and Gas** > click on **Costs and Technology**.

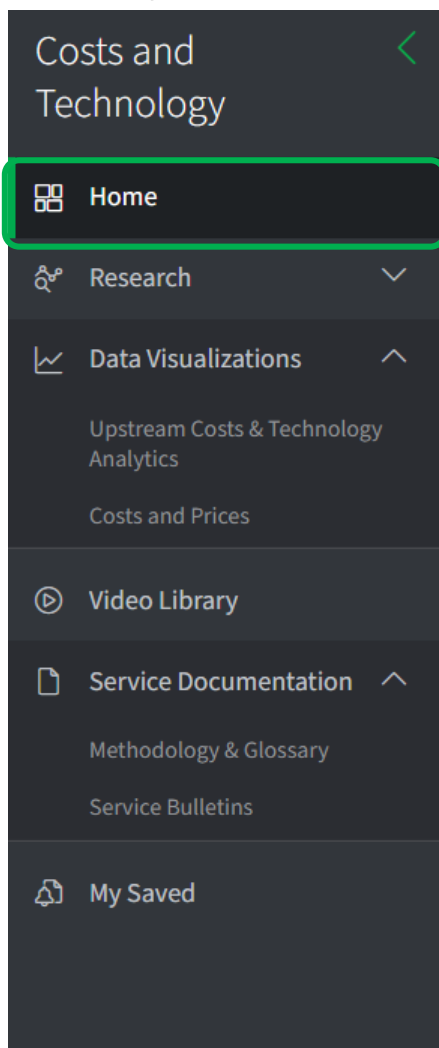
Access the **Upstream Costs and Technology** tool under Executive Dashboards.



The screenshot displays the IHS Markit Connect v6.0 interface. The top navigation bar includes the IHS Markit logo, the text "Connect v6.0", a search bar labeled "Search Connect", and icons for help, bookmarks, and settings. Below this is a horizontal menu with categories: Agribusiness, Automotive, Chemical, Economics, **Energy** (highlighted with a green box), Life Sciences, Maritime & Trade, Risk, and Geography. Under the **Energy** category, there are sub-menus: **Upstream Oil and Gas** (highlighted with a green box), Oil Markets, Midstream, and Downstream, Gas, Power, and Energy Futures, and Mobility Portal. The **Upstream Oil and Gas** sub-menu is expanded, showing a list of options: **RESEARCH & DATA** (E&P Terms and Above-Ground Risk, Plays and Basins, **Costs and Technology** (highlighted with a green box), Companies and Transactions, Executive Dashboards (Key Play Analytics, M&A Analytics, Upstream Company Analytics), and **Upstream Costs and Technology Analytics** (highlighted with a green box). To the right of the **RESEARCH & DATA** section, there is a "Forced Change Study" section with sub-items: Upstream Regional (North America, Latin America, Asia Pacific). Further right, there is a "TOOLS" section with items: E&P Attractiveness Ratings, Map, Company Metrics, Transaction Analysis, Assets on the Market, and Energy Headline Analysis. On the far right, there is a "RELATED" section with items: Vantage, EDIN, Enerdeq, Chemical, Country Risk, Economics Costs and Prices, IHS Markit Webinars & Events, and CERAWeek Conversations.

# Costs & Technology Page Navigation

Use the left-hand rail to browse research and analysis under **Home** and **Research** and data visualization under **Analytics**.



The **Home** page displays various widgets for **Featured Research**, **Expert Analysis**, **Featured Experts**, **Key data visualization**, and more.

## Home

### Featured Research

**An update on COVID-19 and the yards worldwide**  
16 Apr 2020

**IHS Markit Webinar: Global Upstream M&A Review and Outlook—Europe, Middle East, and Africa**  
06 Apr 2020

**IHS Markit Webinar: Global Upstream M&A Review and Outlook—Americas**  
07 Apr 2020

**Upstream service sector in the new sub-\$40/bbl Brent environment**  
03 Apr 2020

[MORE FEATURED RESEARCH](#)

### Expert Analysis



**Upstream service sector in the new sub-\$40/bbl Brent environment**

Apr 16, 2020  
Join Ding Li Ang, Head of Research (APAC) and Head of Engineering and Fabrication, to discuss the future of the upstream supply chain.

[MORE VIDEOS](#)

### Featured Experts



**Pritesh Patel**  
Executive Director  
Houston, Texas



**Judson Jacobs**  
Executive Director  
Boston, Massachusetts



**Frank Larsen**  
Director  
Oslo, Norway

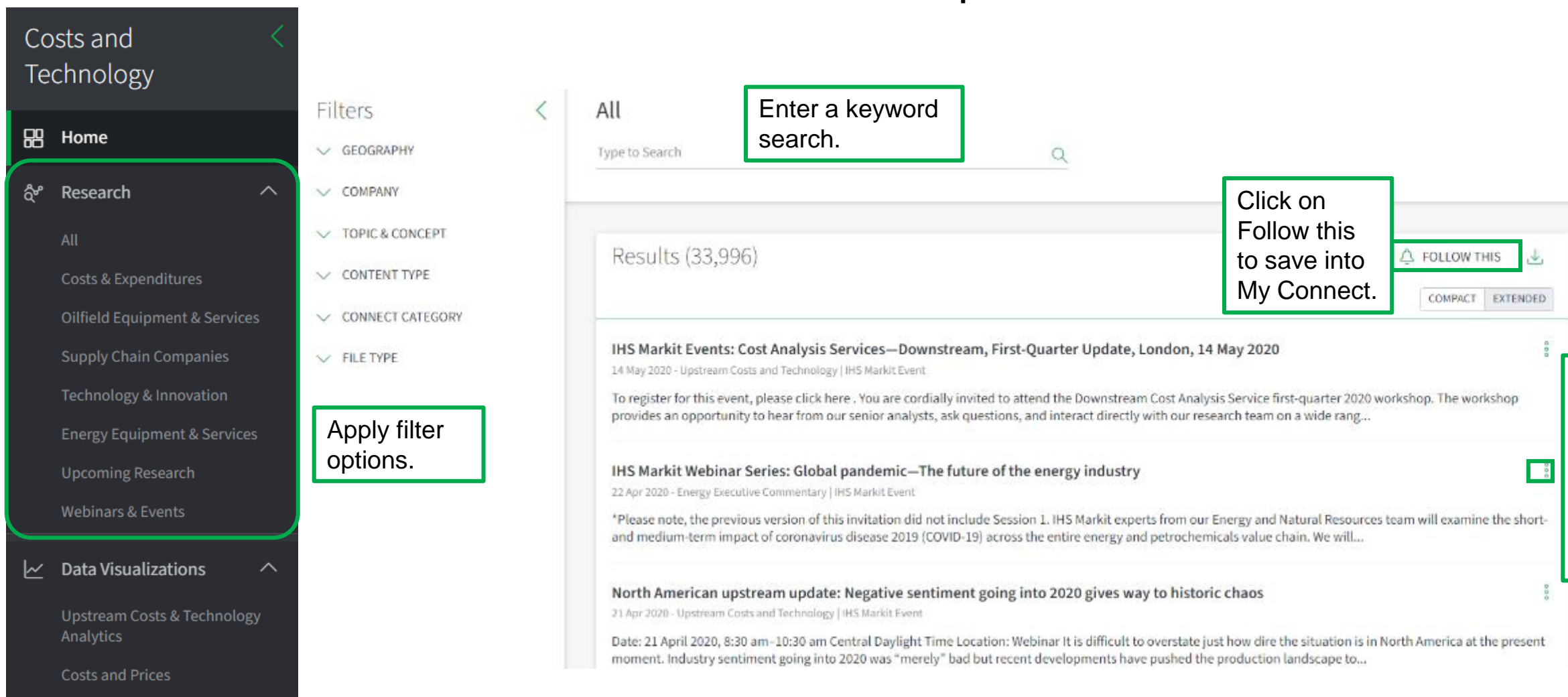


**Kate Ashcroft**  
Director  
London, United Kingdom

[FIND COSTS AND TECHNOLOGY EXPERTS](#)

# Costs & Technology Research Page Navigation

Use the left-hand rail to click on **Research topics** to browse and narrow down research.



The screenshot displays the IHS Markit Costs & Technology Research page. The left-hand navigation rail is visible, with the 'Research' section expanded. The main content area shows a search bar, filters, and a list of research results.

**Annotations:**

- Enter a keyword search.** (Points to the search bar)
- Click on Follow this to save into My Connect.** (Points to the 'FOLLOW THIS' button)
- Click on a 3-dot menu to apply an email alert or share it.** (Points to the 3-dot menu icon next to a result)
- Apply filter options.** (Points to the 'Filters' section)

**Page Content:**

- Left-hand Rail:** Costs and Technology, Home, Research (expanded), All, Costs & Expenditures, Oilfield Equipment & Services, Supply Chain Companies, Technology & Innovation, Energy Equipment & Services, Upcoming Research, Webinars & Events, Data Visualizations, Upstream Costs & Technology Analytics, Costs and Prices.
- Filters:** GEOGRAPHY, COMPANY, TOPIC & CONCEPT, CONTENT TYPE, CONNECT CATEGORY, FILE TYPE.
- Search Bar:** All, Type to Search.
- Results (33,996):**
  - IHS Markit Events: Cost Analysis Services—Downstream, First-Quarter Update, London, 14 May 2020**
    - 14 May 2020 - Upstream Costs and Technology | IHS Markit Event
    - To register for this event, please click here . You are cordially invited to attend the Downstream Cost Analysis Service first-quarter 2020 workshop. The workshop provides an opportunity to hear from our senior analysts, ask questions, and interact directly with our research team on a wide rang...
  - IHS Markit Webinar Series: Global pandemic—The future of the energy industry**
    - 22 Apr 2020 - Energy Executive Commentary | IHS Markit Event
    - \*Please note, the previous version of this invitation did not include Session 1. IHS Markit experts from our Energy and Natural Resources team will examine the short- and medium-term impact of coronavirus disease 2019 (COVID-19) across the entire energy and petrochemicals value chain. We will...
  - North American upstream update: Negative sentiment going into 2020 gives way to historic chaos**
    - 21 Apr 2020 - Upstream Costs and Technology | IHS Markit Event
    - Date: 21 April 2020, 8:30 am–10:30 am Central Daylight Time Location: Webinar It is difficult to overstate just how dire the situation is in North America at the present moment. Industry sentiment going into 2020 was "merely" bad but recent developments have pushed the production landscape to...

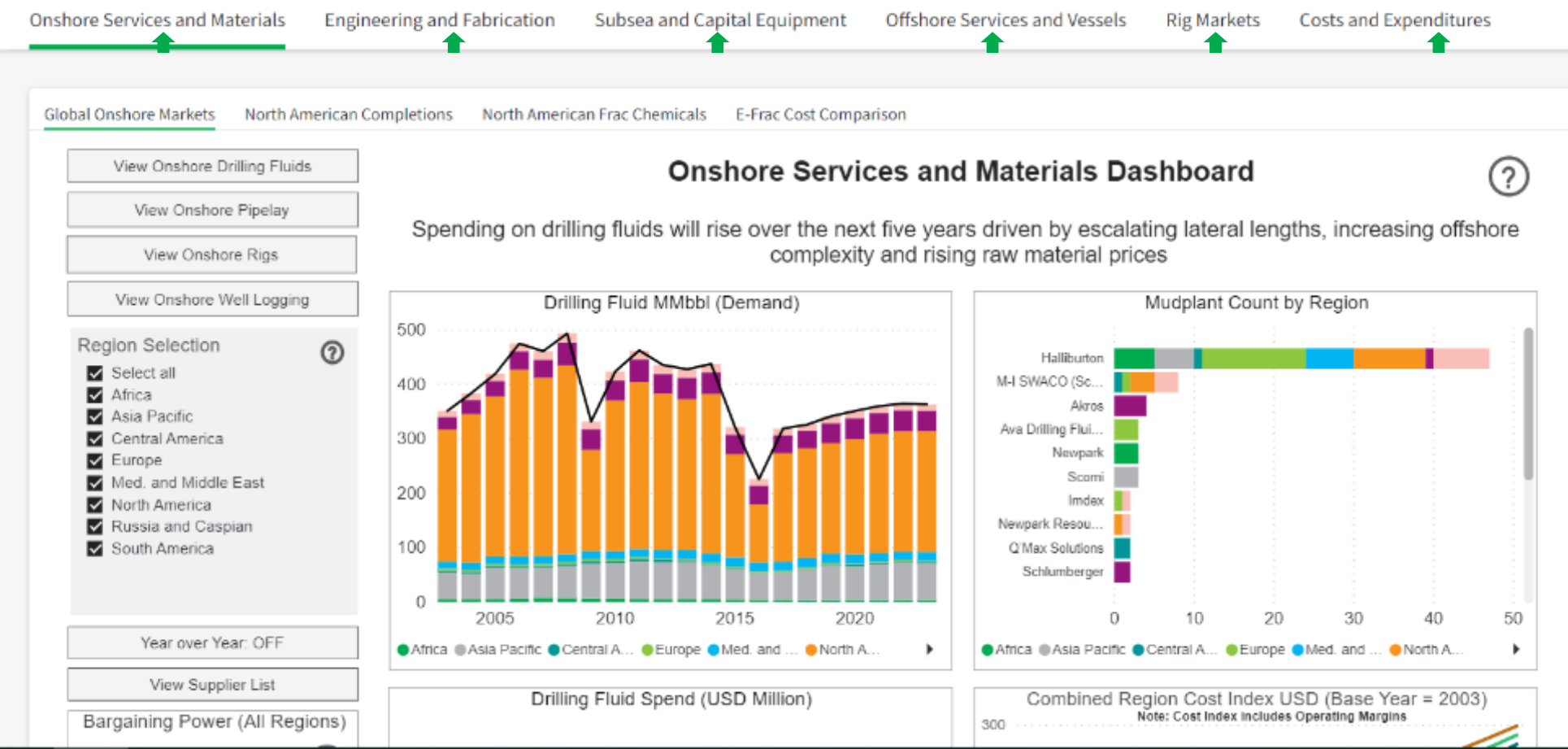
# Upstream Costs and Technology Analytics

Use the left-hand rail to access **Upstream Costs & Technology Analytics** to customize and visualize related data.

Costs and Technology
Home
Research
Data Visualizations
Upstream Costs & Technology Analytics
Costs and Prices
Video Library
Service Documentation
Methodology & Glossary
Service Bulletins
My Saved

## Upstream Costs and Technology Analytics

Toggle between the available tabs to access your relevant segment data.





# Upstream Costs and Technology Analytics basic functionality

Leverage the available filters and features to customize and interact with data across your available market segments\*.

## Upstream Costs and Technology Analytics

Onshore Services and Materials

Engineering and Fabrication

Subsea and Capital Equipment

Offshore Services and Vessels

Rig Markets

Costs and Expenditures

Global Onshore Markets

North American Completions

North American Frac Chemicals

E-Frac Cost Comparison

View Onshore Drilling Fluids

View Onshore Pipelay

View Onshore Rigs

View Onshore Well Logging

Region Selection

- ☒ Select all
- ☒ Africa
- ☒ Asia Pacific
- ☒ Central America
- ☒ Europe
- ☒ Med. and Middle East
- ☒ North America
- ☒ Russia and Caspian
- ☒ South America

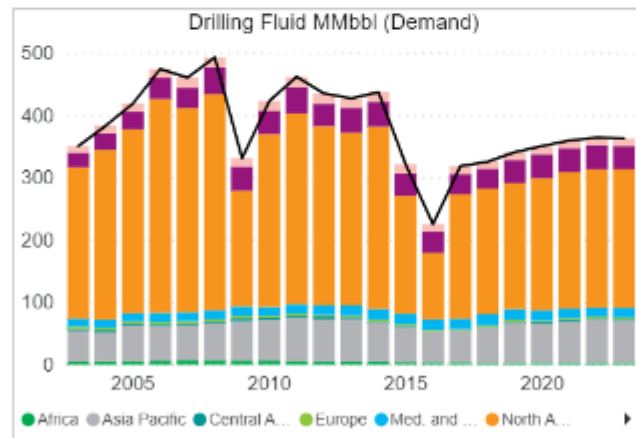
Year over Year: OFF

View Supplier List

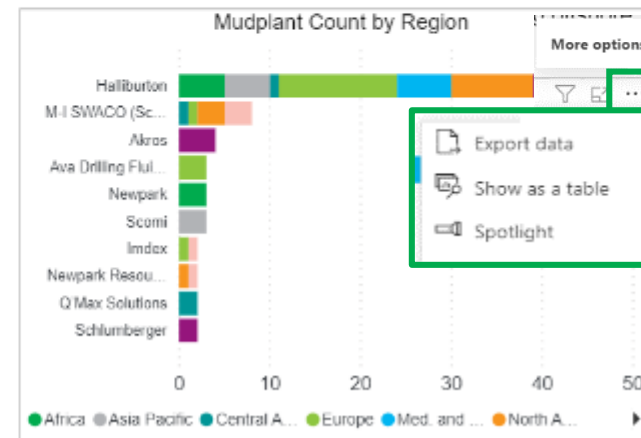
Bargaining Power (All Regions)

### Onshore Services and Materials Dashboard

Spending on drilling fluids will rise over the next five years driven by escalating lateral lengths, increasing offshore complexity and rising raw material prices



Drilling Fluid Spend (USD Million)



Combined Region Cost Index USD (Base Year = 2003)

Note: Cost Index Includes Operating Margins



Use the question mark icon to access the expert contact details and the report.

Hover and click the 3-dot menu to export data or access the underlying data in a table view.

Apply filters to customize the data.

Toggle between tabs within each dashboard to access the available market segments.

\*Analytics options are based on user's subscription.

# Costs and Prices Data Visualization

Access **Material Price Data Tables** and **IHS Markit Material Price Index** from the 'Costs and Prices' space on the left.

Costs and Technology

Home

Research

Data Visualizations

Upstream Costs & Technology Analytics

**Costs and Prices**

Video Library

Service Documentation

Methodology & Glossary

Service Bulletins

My Saved

Costs and Prices

Material Prices Table


Marker	Unit	Last Week	Last Month	Month Change	Last Year	Year Change
Crude Oil, Brent	U.S. Dollars per Barrel	26.66	25.65	4.69 %	70.87	-62.10 %
Crude Oil, WTI	U.S. Dollars per Barrel	20.04	24.19	-17.16 %	63.80	-68.59 %
Natural gas, Henry Hub	U.S. Dollar	1.68	1.79	-5.91 %	2.63	-35.84 %
Aluminum, LME	U.S. Dollars per Ton	1,471.00	1,606.20	-8.42 %	1,849.19	-20.06 %
Copper, LME	U.S. Dollars per Ton	5,111.88	4,962.70	3.01 %	6,467.25	-20.96 %
Nickel, LME	U.S. Dollars per Ton					
Iron ore 62%, CFR China	U.S. Dollars per Ton					
Rubber (RSS3), Singapore	U.S. Cent					
Lumber, North America	U.S. Dollar					

Monthly Pricing Pulse

IHS Markit Materials Price Index.

Monthly Pricing Pulse

World, MPI, IHS Markit Materials Price Index



Note: "Last week" = weekly average; "Last month" = price lagged 4 weeks  
Source: IHS Pricing and Purchasing

MORE PRICES

Export or print the data.

Export or print the data.

Image

PDF

Excel

Power Point

Print

EXPORT...

# Plays and Basins



# Plays and Basins North America Overview and Deliverables

**Plays and Basins North America:** provides critical judgment and authoritative perspectives with the most comprehensive forward-looking analysis of oil and gas exploration and development in onshore unconventional plays in North America.

- **Deliverables: Turning expert led insights into actionable decisions**

- Quarterly supply forecasts (reports and accompanying xls files with underlying data) including comprehensive views and scenario analysis of operator strategy, investor expectations, global commodity markets, midstream and service sector capacity, and play trend analysis
- Semi-annual updates to North America unconventional play workbooks (reports and accompanying xls files with underlying data)
- Ad hoc coverage of legacy and emerging plays
- Memos catered to clients with upstream interest or exposure including operator strategy and activity, recent mergers and acquisitions, aboveground issues, and leading-edge data analysis
- Key Play Analytics, online interactive visualization for analysis and evaluation of plays and operators critical elements in industry
- Access to analysts via webinars, events and onsite engagements

- **Access**

- Through our online application, Connect, or directly to your company's internal data management tools through APIs
- Enterprise access

# Basin Insights: Overview and Deliverables

## Basin Insights

Leading source for commercial and strategic advisory into changes in the E&P Industry's perception of a play's or basin's commercial value; integrates competitive landscape analysis, resource potential and above ground risks. Identifying changes in the industry's perception of the commercial value of a play or basin.

## Core Deliverables

Strategic and commercial guidance, with regular commentary and analysis on distinct basin and regional play themes:

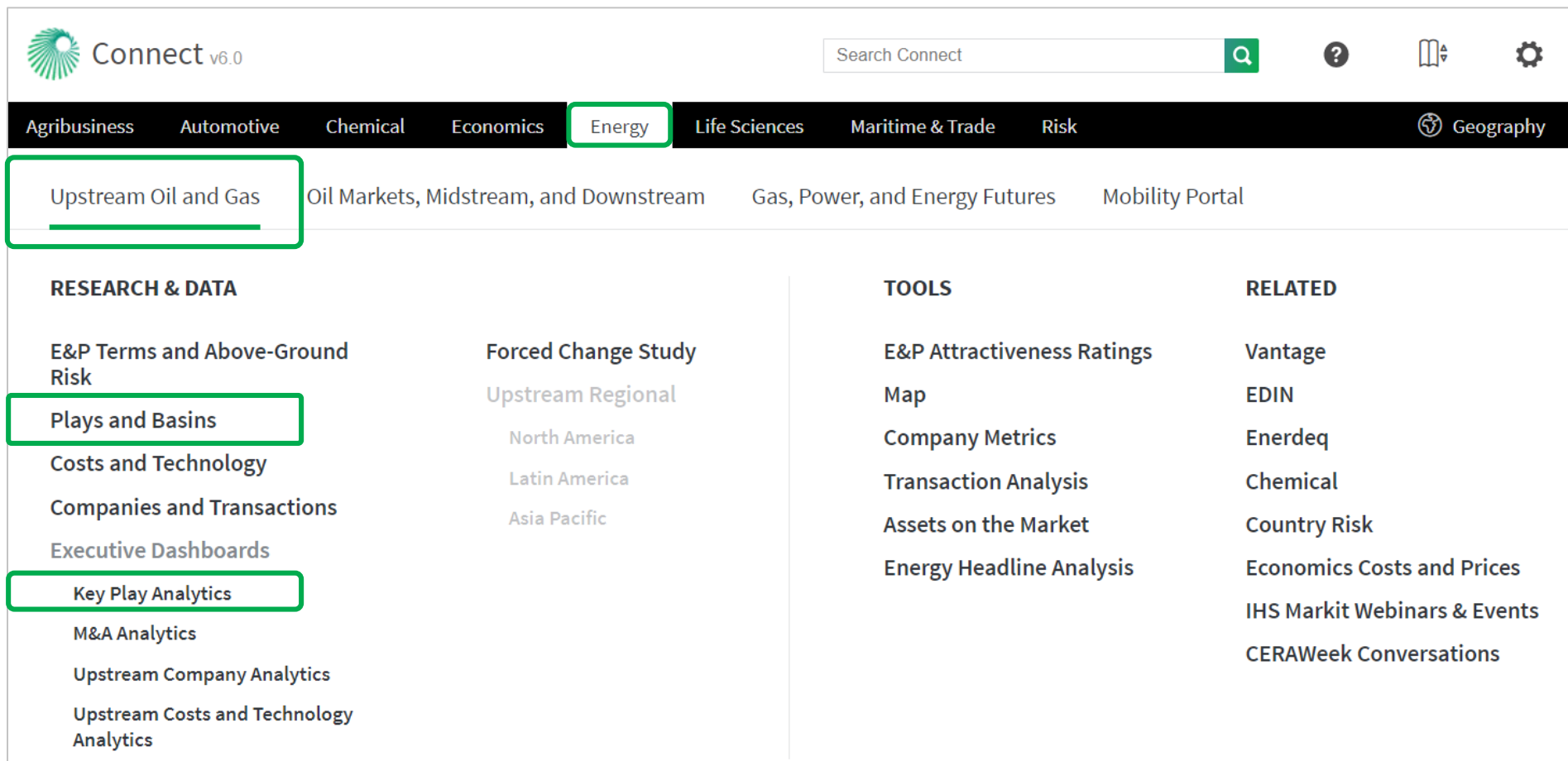
### – Critical Analysis Document series:

- **Basin Reports:** Provides advisory that is forward looking, analytical evaluation of the commercial and strategic implication of E&P activity that alters a basin's future investment and development trajectory. **Two to three (2-3) per month.**
  - Basin assessments – commercial and strategic challenges and implications
  - Critical wells
  - Basin importance
  - Basin leaders
  - Critical above ground risks
- **E&P Trends & Analysis:** ongoing independent commentary with strategic and commercial analysis of basin competitiveness and attractiveness that considers both below-and-above-ground perspectives. Competitive assessments rank a given basin versus other basins, with particular focus on future investment opportunities and strategic portfolio fit. **Dictated by events and selected basins (several times per quarter).**
  - Competitive landscape analysis that identifies the leading players in the most important basins worldwide.

### – Webinars / Workshops with access to analysts

## Access Plays and Basins on Connect

In Connect, hover over the **Energy** menu > **Upstream Oil and Gas** > Click on **Plays and Basins**. Access the **Key Play Analytics** data tool under **Executive Dashboards**.



The screenshot displays the IHS Markit Connect v6.0 interface. The top navigation bar includes a search bar and icons for help, bookmarks, and settings. The main navigation menu is highlighted, showing categories like Agribusiness, Automotive, Chemical, Economics, Energy, Life Sciences, Maritime & Trade, Risk, and Geography. The 'Energy' menu is expanded, revealing sub-categories: Upstream Oil and Gas, Oil Markets, Midstream, and Downstream, Gas, Power, and Energy Futures, and Mobility Portal. The 'Upstream Oil and Gas' sub-category is further expanded, showing a list of tools and related content. The 'Plays and Basins' tool is highlighted, and the 'Key Play Analytics' tool is highlighted under the 'Executive Dashboards' section.

RESEARCH & DATA	TOOLS	RELATED
E&P Terms and Above-Ground Risk	E&P Attractiveness Ratings	Vantage
Plays and Basins	Map	EDIN
Costs and Technology	Company Metrics	Enerdeq
Companies and Transactions	Transaction Analysis	Chemical
Executive Dashboards	Assets on the Market	Country Risk
Key Play Analytics	Energy Headline Analysis	Economics Costs and Prices
M&A Analytics		IHS Markit Webinars & Events
Upstream Company Analytics		CERAWeek Conversations
Upstream Costs and Technology Analytics		

## Plays & Basins Page Navigation

Use the left-hand rail to browse research and analysis under **Home** and **Research** and data visualization under **Analytics**.

Commercial Plays & Basins <

Home

Commercial Plays & Basins Research ^

All

Play & Basin Profiles

E&P Trends & Analysis

Webinars & Events

Data Visualizations ^

Key Play Analytics

Video Library

Technical Data & Editorial v

My Saved

The **Home** page displays various widgets for **Featured Research**, **Expert Analysis**, **Featured Experts**, **Key data visualization**, and more.

### Featured Research

**Upstream Insight: US rig update 8 April 2020 - The reduction accelerates and reallocation begins**

09 Apr 2020 - Plays and Basins | Insight

**Basin Report: Assessing the stratigraphic, areal, and economic limits of the offshore, commercial plays in the Guyana Basin**

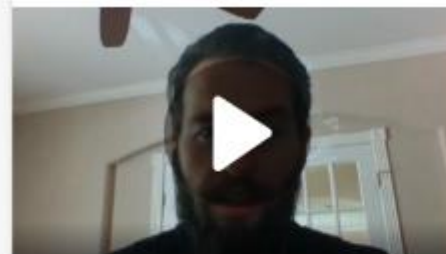
09 Apr 2020 - Plays and Basins | Profile

**Basin Report: Tano Basin: Weak oil prices and a fractured competitive landscape may delay assessment of promising basin potential**

07 Apr 2020 - Plays and Basins | Profile

[MORE FEATURED RESEARCH](#) [ALL RESEARCH](#)

### Expert Analysis



**North American activity update, 9 April: Tracking daily rig activity and reallocations**

Apr 13, 2020

The North American upstream research by the Plays and Basins team at IHS Markit is tracking the oil market and North American onshore activities, where we provide...

[MORE VIDEOS](#)

### Featured Experts



**Reed Olmstead**

Director  
Houston, Texas



**Jerry Kepes**

Head, Plays and Basins, Upstream



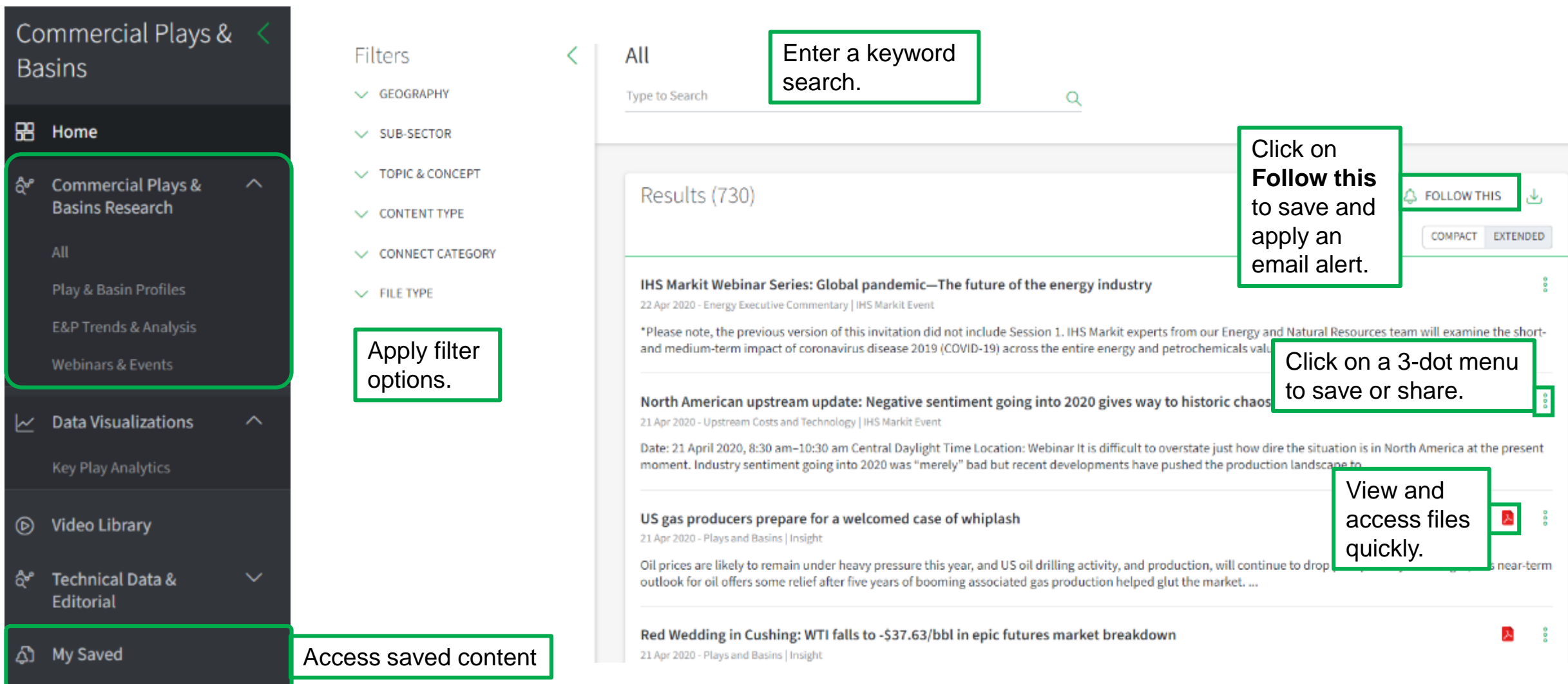
**David McCaleb**

Director

[EXPERT DIRECTORY](#)

# Plays & Basins Research Page Navigation

Use the left-hand rail to click on **Research topics** to browse and narrow down research.



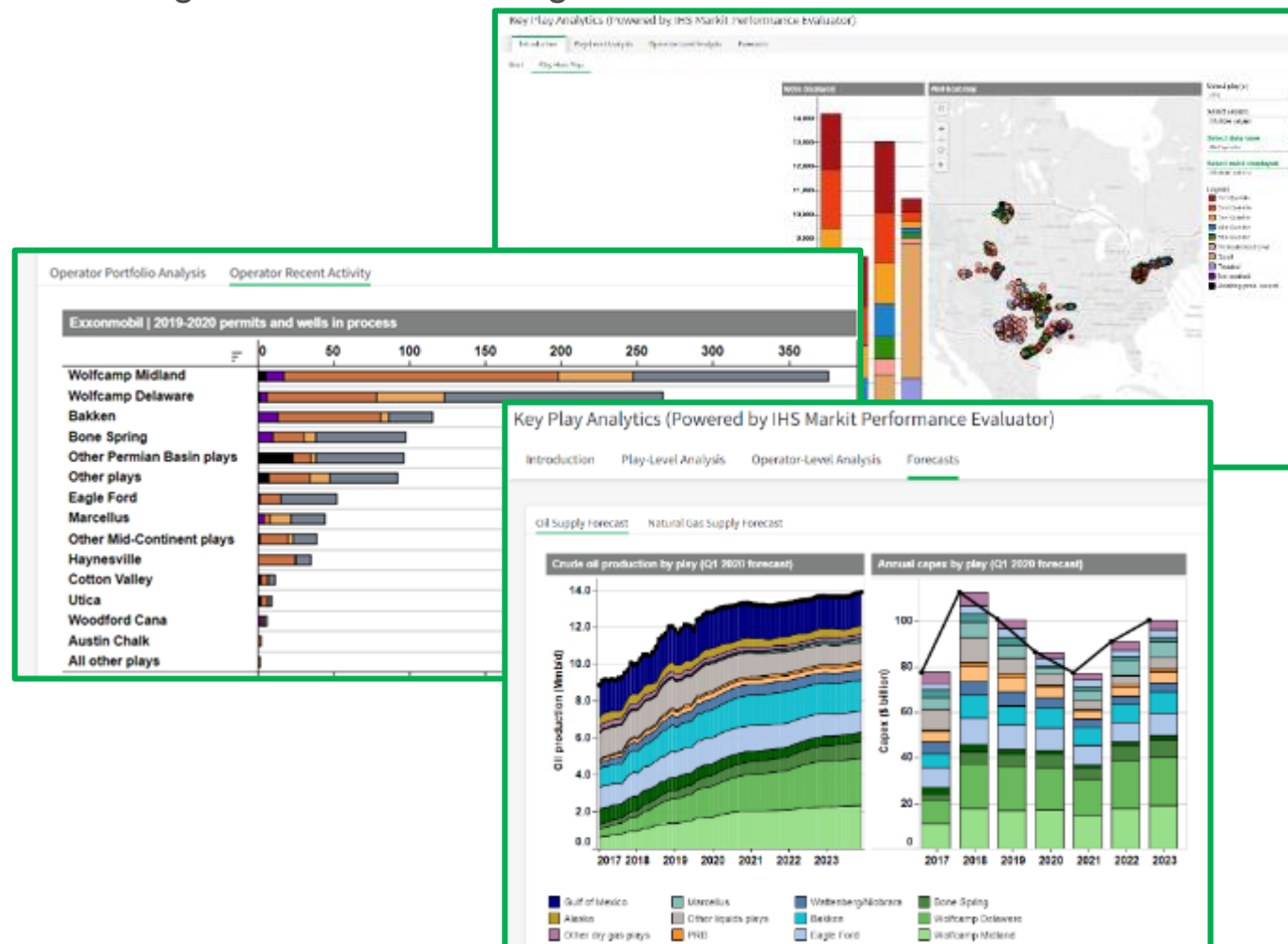
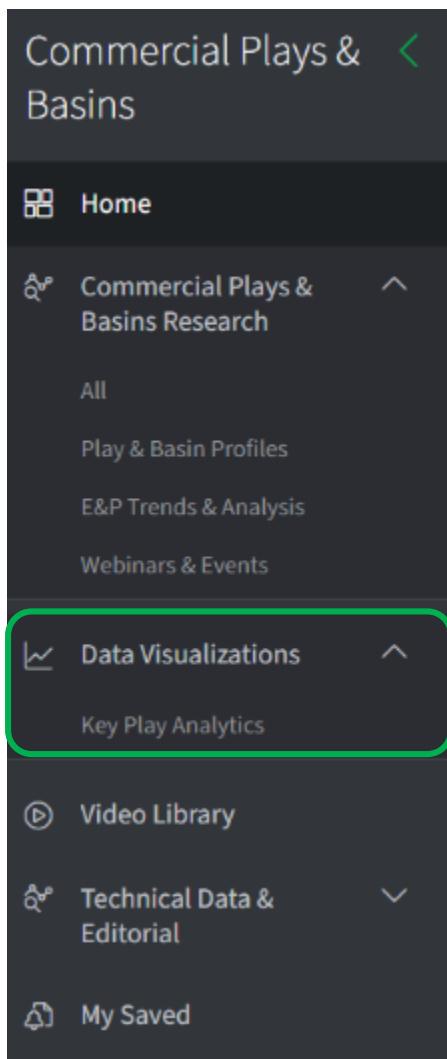
The screenshot displays the IHS Markit Plays & Basins Research interface. On the left is a dark sidebar with navigation options: Home, Commercial Plays & Basins Research (highlighted with a green box), All, Play & Basin Profiles, E&P Trends & Analysis, Webinars & Events, Data Visualizations, Video Library, Technical Data & Editorial, and My Saved (highlighted with a green box). A green box labeled "Access saved content" points to the "My Saved" option. The main content area features a "Filters" section with expandable categories: GEOGRAPHY, SUB-SECTOR, TOPIC & CONCEPT, CONTENT TYPE, CONNECT CATEGORY, and FILE TYPE. A green box labeled "Apply filter options." points to this section. Above the filters is a search bar with the placeholder "Type to Search" and a green box labeled "Enter a keyword search." pointing to it. The search results section shows "Results (730)" and lists several articles. A green box labeled "Click on Follow this to save and apply an email alert." points to the "FOLLOW THIS" button. Another green box labeled "Click on a 3-dot menu to save or share." points to a three-dot menu icon next to an article. A third green box labeled "View and access files quickly." points to a document icon next to an article. The article titles include "IHS Markit Webinar Series: Global pandemic—The future of the energy industry", "North American upstream update: Negative sentiment going into 2020 gives way to historic chaos", "US gas producers prepare for a welcomed case of whiplash", and "Red Wedding in Cushing: WTI falls to -\$37.63/bbl in epic futures market breakdown".

# Plays & Basins: North America Key Play Analytics [Click here](#) for quick access.

Use the left-hand rail to access **North America Key Play Analytics** to customize and visualize related data. Click [here](#) for complete user guide and methodologies.

**Key Play Analytics** – an online interactive data visualization tool for analysis and evaluation of plays and operators.

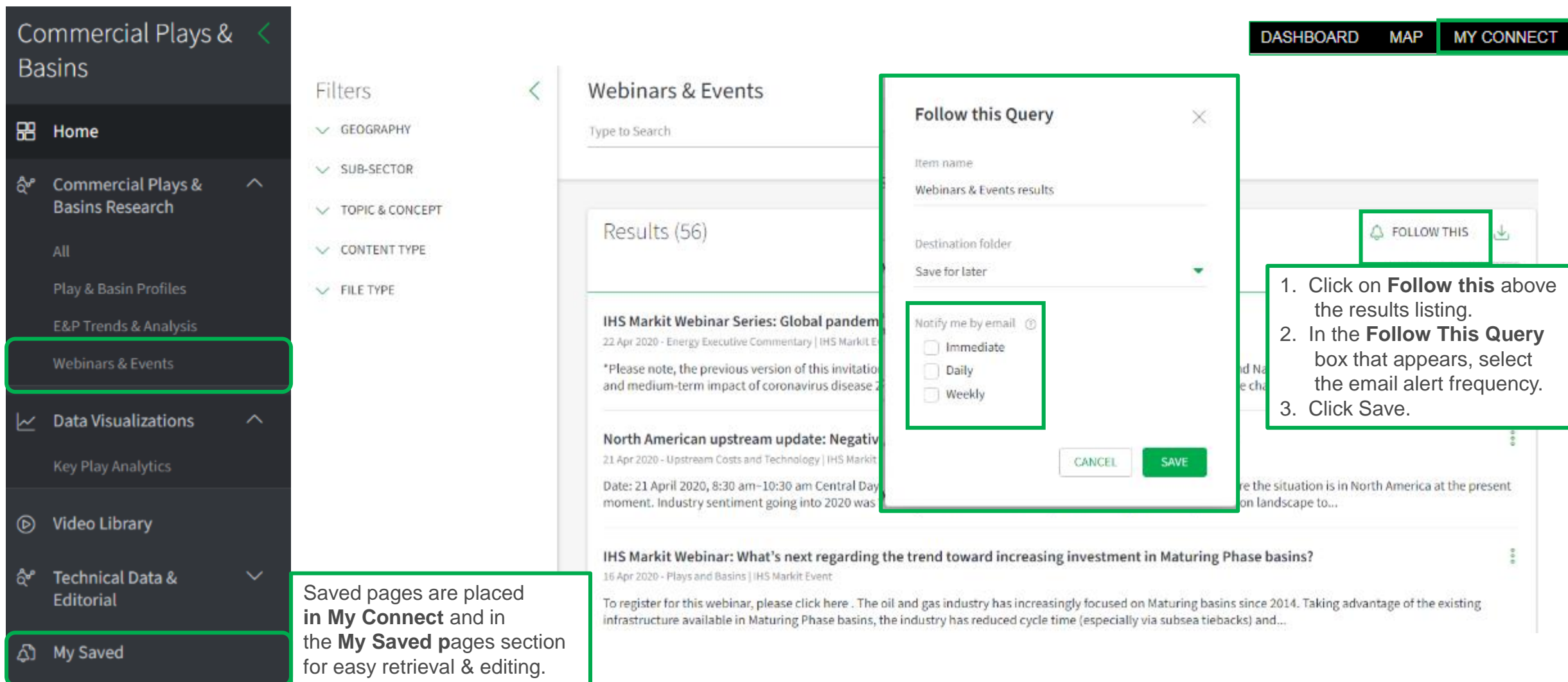
- Leverages select aspects of IHS Markit's Performance Evaluator database
- Users quickly and easily create powerful visualizations of well performance data, acting as a complement to existing Play level reports available to plays and basins subscribers.





# Follow Plays & Basins Bi-weekly Webinars

Save a research page into **My Connect** and apply an email alert to be notified when a document is updated on your page.



The screenshot displays the IHS Markit interface. On the left is a dark sidebar with navigation options: Home, Commercial Plays & Basins Research, All, Play & Basin Profiles, E&P Trends & Analysis, **Webinars & Events** (highlighted with a green box), Data Visualizations, Video Library, Technical Data & Editorial, and My Saved. The main content area is titled 'Webinars & Events' and shows a list of results. A modal window titled 'Follow this Query' is open, allowing users to select an item name, destination folder, and email alert frequency (Immediate, Daily, or Weekly). A green box highlights the 'Notify me by email' section of the modal. In the top right corner, there are tabs for DASHBOARD, MAP, and MY CONNECT. A green box highlights the 'FOLLOW THIS' button above the results listing. A text box on the right provides instructions: 1. Click on **Follow this** above the results listing. 2. In the **Follow This Query** box that appears, select the email alert frequency. 3. Click Save. At the bottom left, a green box contains the text: 'Saved pages are placed in **My Connect** and in the **My Saved** pages section for easy retrieval & editing.'

Commercial Plays & Basins

Home

Commercial Plays & Basins Research

All

Play & Basin Profiles

E&P Trends & Analysis

**Webinars & Events**

Data Visualizations

Key Play Analytics

Video Library

Technical Data & Editorial

My Saved

Filters

- GEOGRAPHY
- SUB-SECTOR
- TOPIC & CONCEPT
- CONTENT TYPE
- FILE TYPE

Webinars & Events

Type to Search

Results (56)

**IHS Markit Webinar Series: Global pandemic**  
22 Apr 2020 - Energy Executive Commentary | IHS Markit E  
\*Please note, the previous version of this invitation and medium-term impact of coronavirus disease 2

**North American upstream update: Negative**  
21 Apr 2020 - Upstream Costs and Technology | IHS Markit  
Date: 21 April 2020, 8:30 am-10:30 am Central Day  
moment. Industry sentiment going into 2020 was

**IHS Markit Webinar: What's next regarding the trend toward increasing investment in Maturing Phase basins?**  
16 Apr 2020 - Plays and Basins | IHS Markit Event  
To register for this webinar, please click here. The oil and gas industry has increasingly focused on Maturing basins since 2014. Taking advantage of the existing infrastructure available in Maturing Phase basins, the industry has reduced cycle time (especially via subsea tiebacks) and...

**Follow this Query**

Item name  
Webinars & Events results

Destination folder

Save for later

Notify me by email

- ☐ Immediate
- ☐ Daily
- ☐ Weekly

CANCEL SAVE

**FOLLOW THIS**

1. Click on **Follow this** above the results listing.
2. In the **Follow This Query** box that appears, select the email alert frequency.
3. Click Save.

Saved pages are placed in **My Connect** and in the **My Saved** pages section for easy retrieval & editing.

DASHBOARD MAP **MY CONNECT**



# Companies and Transactions

# Overview of the Companies and Transactions Capability

## Company Research

- **Company Valuation:** Understanding the true drivers of shareholder value with a consistent and time-tested methodology that focuses on the valuation, upstream strategy, financial & operational performance and government drivers of the world's leading oil & gas companies.
- **Upstream Portfolio & Strategy:** Independent assessment of upstream company strategic objectives, portfolio strengths and weaknesses, and those of peers and competitors. Thorough review of regional and asset level production profiles, identifying risks beyond peak output. Identifying opportunities to strengthen the asset portfolio that complement specific company expertise.
- **Peer Benchmarking:** Benchmark the financial and operational performance against peers. Identify key drivers of value growth and areas of focus for improvement. Identify and understand winning strategies.

## Transaction Research

- **M&A Database and Insights:** Critical independent analysis and insights into the energy merger, acquisition, and divestiture marketplace. Dedicated deal analysis on a daily basis, across Upstream, Mid-stream, Downstream, and Oilfield Service segments. Providing proprietary deal pricing, valuation benchmarks, and M&A trend analysis.
- **Assets on the Market:** Our Significant Energy Assets on the Market (SEAM) product internally leverages the IHS M&A database and comparable market transactions to establish independent pre-deal valuations, analysis, and insights on assets and companies actively being sold.
- **Opportunity screening & due diligence:** Custom screen and identify all relevant opportunities within a select focus area and assess entry options. Evaluate the competitive environment of active buyers and sellers, and competitive deal pricing. Receive independent valuation of target assets, projects, and companies or assets targeted for divestment.

# Overview of the Upstream Company Analytics Dashboard

Click [here](#) for direct access.

## E&P Portfolio Tool



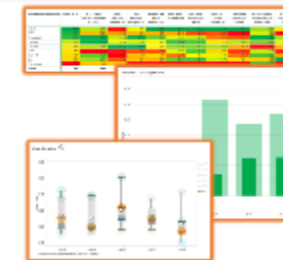
- Access 10 years of historical production and 10 years of future production for approximately 50 of the largest International Oil Companies (IOCs), Independents, and National Oil Companies (NOCs)
- Search and analyze production portfolios by location, asset type, hydrocarbon, and field (project) name, both on a historical and forecast basis
- Benchmark companies on the basis of production portfolio attributes, volumetric growth rates, and upstream returns
- Create visualizations to better understand what drives company strategies with respect to production portfolios, while also accessing the underlying data

## Company Valuation



- Access 10 years of historical IHSM corporate valuation assessments and their underlying asset categories for approximately 80 of the world's key International Oil Companies, Independents, and National Oil Companies
- Select and compare key metrics that drive valuation growth; including capital spending patterns, sources/uses of cash flow, cost, profitability, and reserves/production growth.
- Benchmark companies on their valuation components, per unit reserve values, operating efficiency, and financial strength.

## Financial and Operational Benchmarking



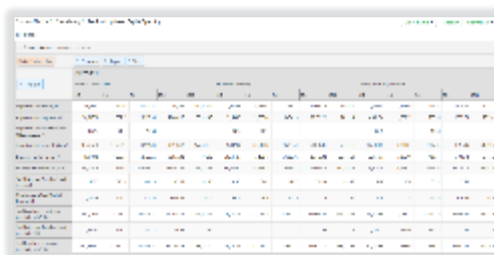
- Easily benchmark companies versus peers across many financial & operational metrics
- Includes auto-generated charts, ability to customize peer groups
- Allows users to have easy access to underlying data.

## NOC Benchmarking

The NOC benchmarking tool allows comparing and contrasting National Oil companies (NOCs) across a range of categories, generate data visualizations for a series of financial and operational indicators across 25 NOCs worldwide covering ≈ 90% of global oil & gas production by NOCs.

# Overview of the Other Company Research Data Tools

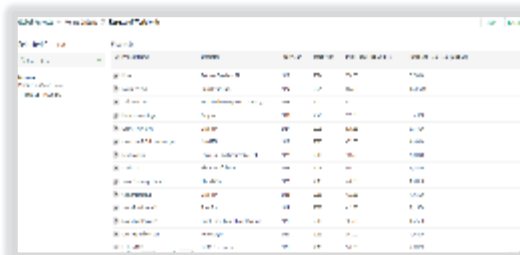
## Company Metrics



Company	Revenue	Operating Profit	Capital Expenditure	Dividends	Debt	Equity	Market Value	Employees	Production	Reserves
ExxonMobil	350,000	45,000	15,000	5,000	100,000	150,000	400,000	60,000	1,000,000,000	10,000,000,000
BP	250,000	35,000	10,000	3,000	80,000	120,000	300,000	50,000	800,000,000	8,000,000,000
Shell	280,000	40,000	12,000	4,000	90,000	130,000	350,000	55,000	900,000,000	9,000,000,000

Comprehensive financial & operational database containing 25 years of historical data, over 300 active publicly traded companies, over 1,200 line items and metrics, with more than 60 reported geographic regions. Click [here](#) for direct access.

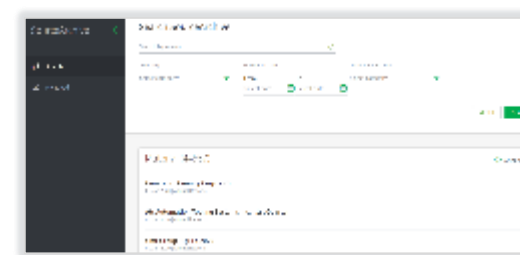
## Global Projects



Project Name	Location	Type	Status	Start Date	End Date	Investment	Production
North Sea	North Sea	Offshore	Active	2010	2020	1,000	100,000
Deepwater	Deepwater	Offshore	Active	2015	2025	2,000	200,000
Heavy Oil	Heavy Oil	Onshore	Active	2012	2022	1,500	150,000

Contains information on projects, both onshore and offshore, with a focus on the upstream exploration and production sector. Over 8,500 projects world-wide, upstream asset types include conventional, deepwater, enhanced/improved recovery, heavy oil, and bitumen/oil sands. Click [here](#) for direct access.

## Source Archive



Company	Document Type	Date	Size	Download
ExxonMobil	Annual Report	2020-03-31	10MB	Download
BP	Quarterly Report	2020-06-30	5MB	Download
Shell	Investor Presentation	2020-05-15	3MB	Download

Contains financial filings of thousands of public energy companies. Users can search by keyword, company name, date, for direct access to publicly released presentations by energy companies, which allows users to quickly access multiple company presentations and filings from a single database instead of visiting individual corporate websites. Click [here](#) for direct access.

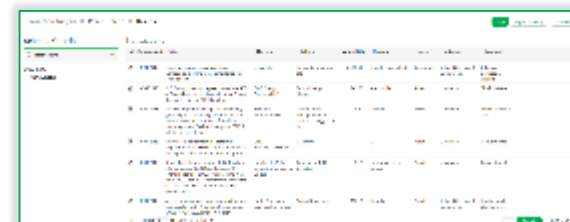
# Overview of Transaction Research Data Tools

**Transaction & Opportunity Mapping Interface:** a mapping interface that allows for geo-referencing of transactions and current acquisition opportunities. Includes ability to filter across numerous characteristics, export results, graph results, and transition between the map and our Transaction databases. Mapping display also allows entitled customers to see related IHS Markit analysis and technical content, including global basin outlines, with transaction information.

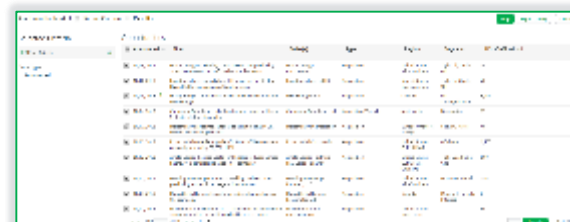
**Transaction Analysis:** Online database featuring a broad range of search parameters to identify deal comparable, including all global regions, energy subsectors, transaction value ranges, and individual buyers and sellers. Over 25 years of transaction history with more than 46,000 industry transactions. Click [here](#) to access.

**Assets on the Market Database:** Searchable and exportable database that actively tracks all known energy assets on the market, covering all global and regional locations and all resource segments, detailing valuations and full operational data including reserves, production and acreage. More than 1,800 global opportunities and tracking over \$300 billion of global opportunities. Click [here](#) to access.

**M&A Deal Pricing Analytics:** The M&A Deal Pricing tool is a comprehensive web-based interface that allows users to analyze upstream transaction comparable deal pricing trends across the globe based on the extensive proprietary data within our IHS Markit Transaction Analysis database. The tool encompasses over 7,000 asset and corporate deals from 1995 through the present day, totaling more than \$3 trillion in value. Click [here](#) to access.

Transaction ID	Date	Value	Other Details
1	2019-01-01	\$1.2B	Acquisition of Oil & Gas Assets
2	2019-02-15	\$850M	Merger of Two Energy Companies
3	2019-03-10	\$600M	Investment in Renewable Energy
4	2019-04-05	\$450M	Acquisition of Natural Gas Processing
5	2019-05-20	\$300M	Joint Venture in Offshore Drilling

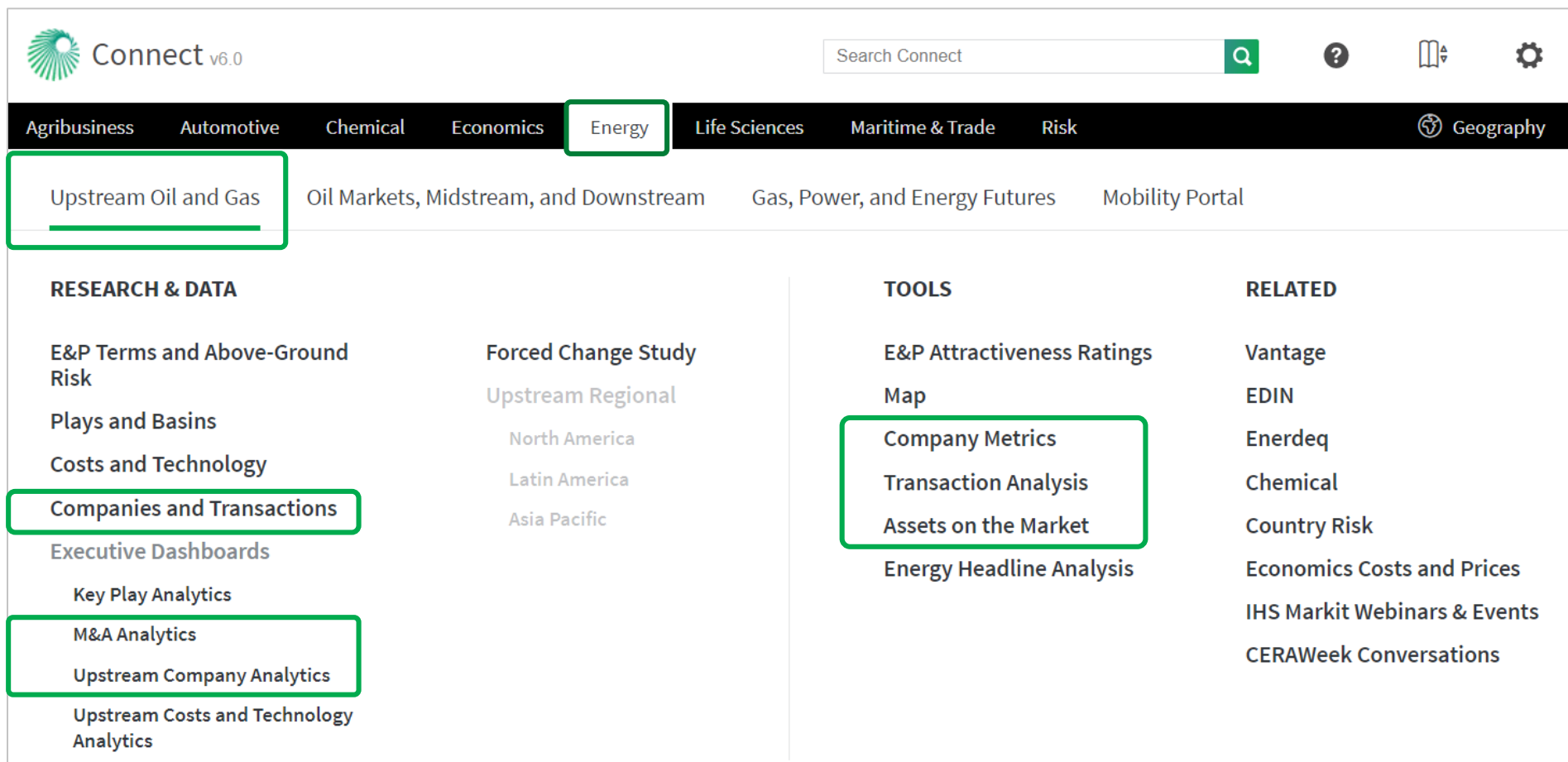


Asset ID	Location	Type	Other Details
A001	North America	Oil Refinery	Capacity: 1.5M bbl/day
A002	Europe	Natural Gas Processing	Capacity: 1.2M m³/day
A003	Asia	Coal Processing	Capacity: 2.0M tpa
A004	Africa	Crude Oil Refinery	Capacity: 1.0M bbl/day
A005	South America	Crude Oil Refinery	Capacity: 1.5M bbl/day



# Companies and Transactions in Connect

In Connect, hover over the **Energy** menu > **Upstream Oil and Gas** > click on **Companies and Transactions**. Access **M&A Analytics** and **Upstream Company Analytics** under **Executive Dashboards** and the other data tools under **Tools** on the right.



The screenshot shows the IHS Markit Connect v6.0 interface. The top navigation bar includes a search bar and icons for help, bookmarks, and settings. The main navigation menu is divided into several categories: Agribusiness, Automotive, Chemical, Economics, Energy, Life Sciences, Maritime & Trade, Risk, and Geography. The 'Energy' category is highlighted, and its sub-menu is expanded, showing 'Upstream Oil and Gas', 'Oil Markets, Midstream, and Downstream', 'Gas, Power, and Energy Futures', and 'Mobility Portal'. The 'Upstream Oil and Gas' sub-menu is further expanded, revealing three main sections: 'RESEARCH & DATA', 'TOOLS', and 'RELATED'. Under 'RESEARCH & DATA', there are links to 'E&P Terms and Above-Ground Risk', 'Plays and Basins', 'Costs and Technology', 'Companies and Transactions' (highlighted), 'Executive Dashboards', 'Key Play Analytics', 'M&A Analytics', 'Upstream Company Analytics' (highlighted), and 'Upstream Costs and Technology Analytics'. Under 'TOOLS', there are links to 'E&P Attractiveness Ratings', 'Map', 'Company Metrics' (highlighted), 'Transaction Analysis' (highlighted), 'Assets on the Market' (highlighted), and 'Energy Headline Analysis'. Under 'RELATED', there are links to 'Vantage', 'EDIN', 'Enerdeq', 'Chemical', 'Country Risk', 'Economics Costs and Prices', 'IHS Markit Webinars & Events', and 'CERAWeek Conversations'.



# Companies and Transactions Page Navigation

Home

Company Research

Transaction Research

SourceArchive

Webinars & Events

Headline Analysis

Videos

Service Documentation

My Saved

Overview

All Research

Analytics

Company Metrics

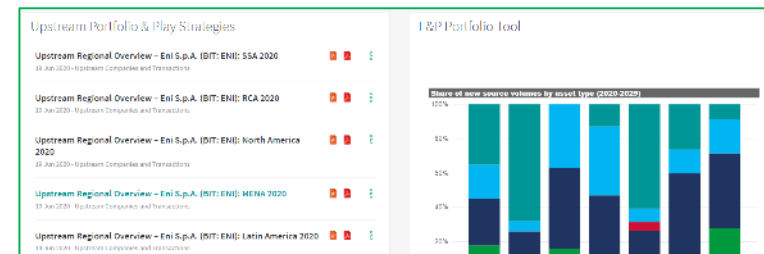
Overview

All Research

Analytics

Use the left-hand navigator to explore relevant sections including **Home**, **Company Research**, **Transaction Research**, **Webinars**, **Headline Analysis**, **Expert Videos**, **Service Documentation** and **My Saved**.

Access **Company** related **Research**, **Data** and **Analytics Tools** under the **Company Research** Section.




Access **Transaction** related **Research**, **Data** and **Analytics Tools** under the **Transaction Research** Section.




Navigate to **Webinars**, **Headline Analysis**, **Library of Expert Videos**, **Service Documentation** to access the respective content.


Recently Added



Capital Markets Report: Equity & debt markets begin to show at slow pace with activity still far below normal  
Jun 24, 2021



A new inflection point? First-quarter earnings highlight commitments by the global integrated oil companies to growing low-carbon portfolios  
Jun 16, 2021



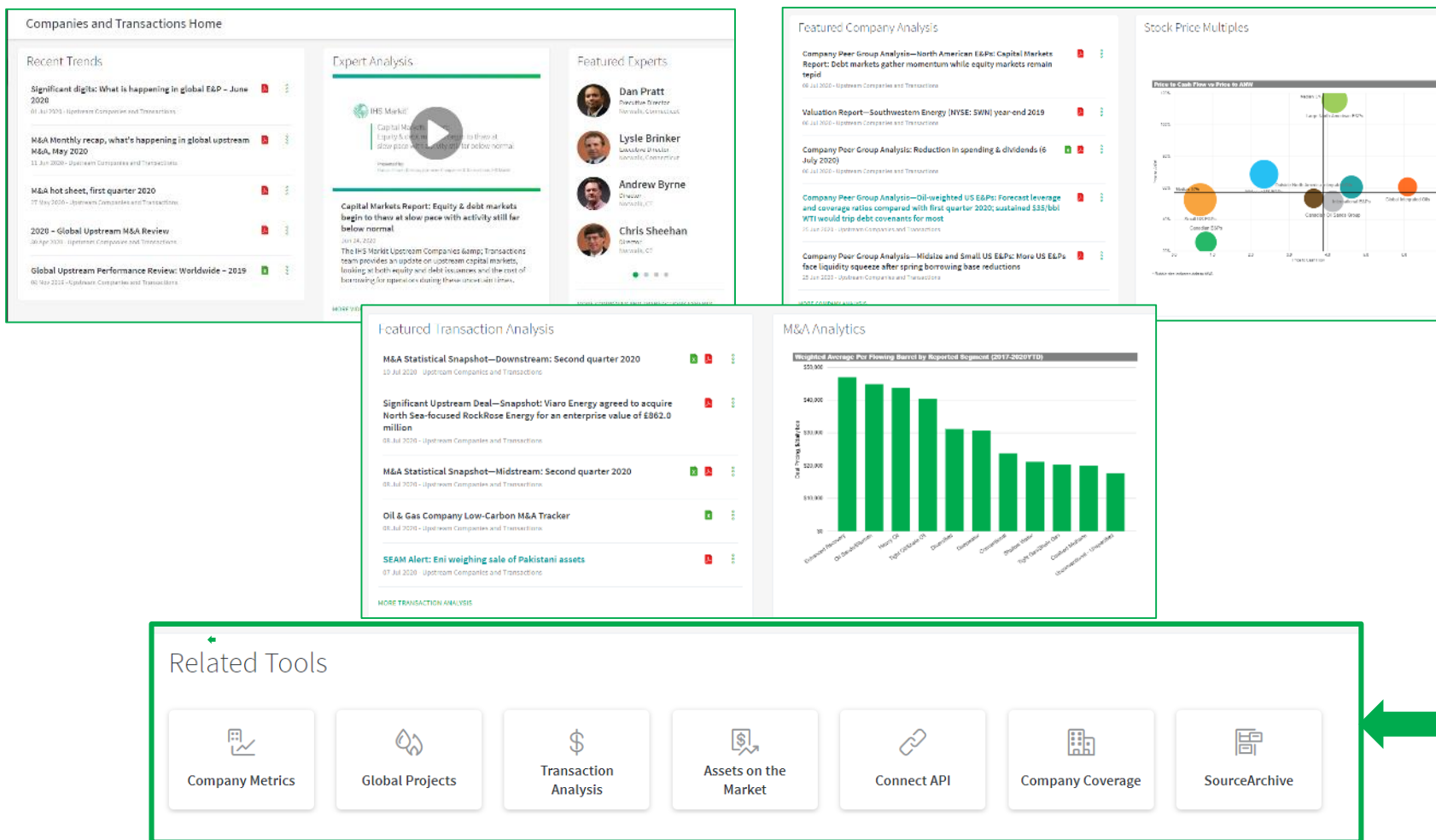
How will oil and gas companies' investments in renewables be impacted by COVID-19  
Apr 23, 2020

Use **My Saved** to access your custom saved C&T documents, searches and manage your alerts.



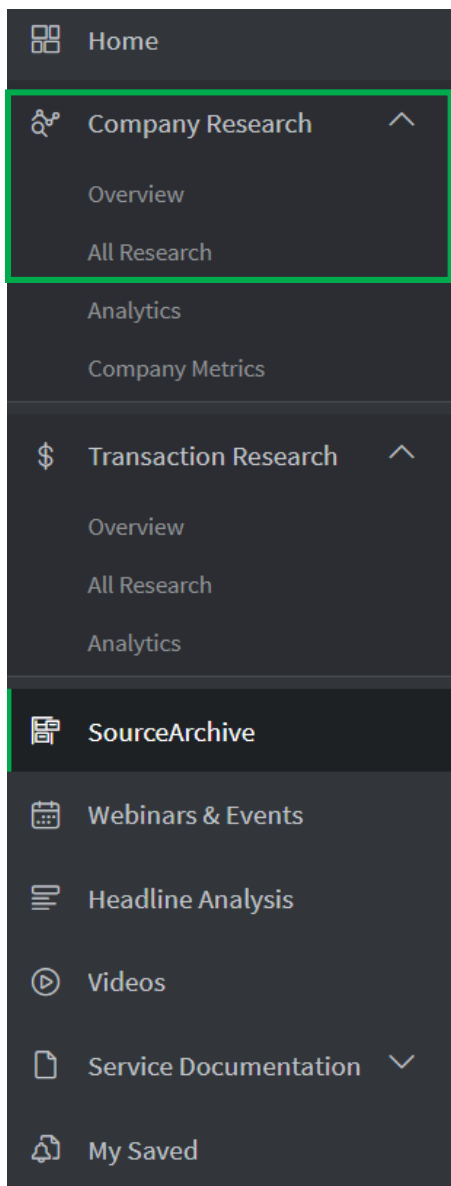
# Companies and Transactions Home

Explore the Companies & Transactions **Home** page to capture the latest and featured Upstream company and transaction market trends and analysis and related tools.



Please refer to **slides 59 and 60** for an overview of each Tool.

# Company Research Page Navigation



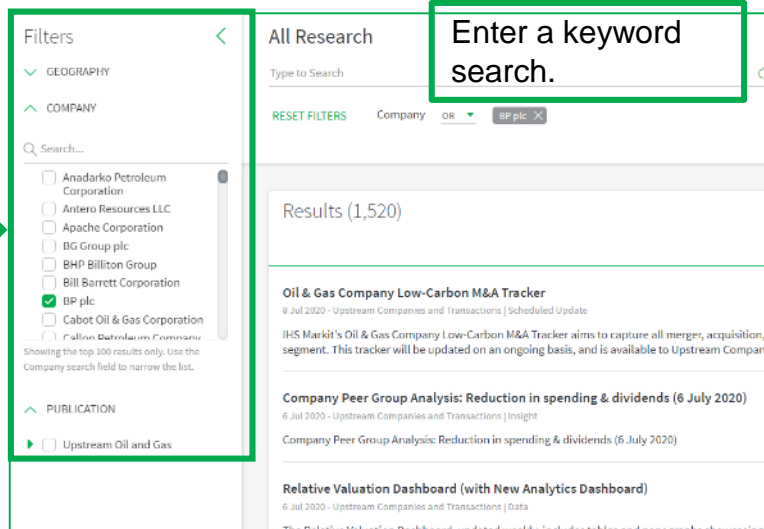
Access all **Upstream Company Research** documents and build a **Company Research Dashboard** from the **Company Research Section**.

> Use the **Overview** Section to build a custom dashboard integrating all key documents for your companies of interest.

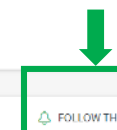


> Use the **All Research** section to navigate to your topics of interest.

Use the available filters on the left to access your company Report. You can filter by **Company**, **Name of Publication** or **Geography**.



1. Click on **Follow this** above the results listing.
2. In the **Follow This Query** box that appears, select the email alert frequency.
3. Click Save.



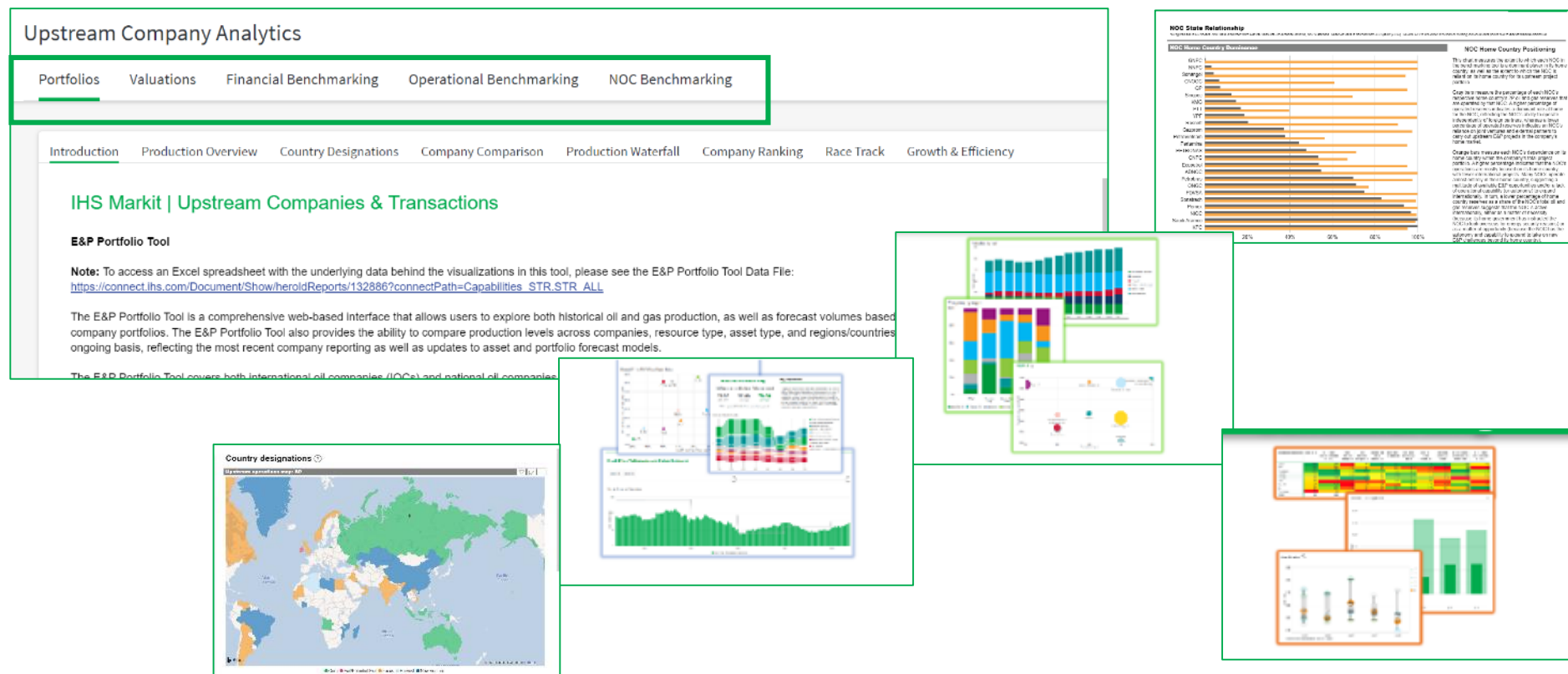
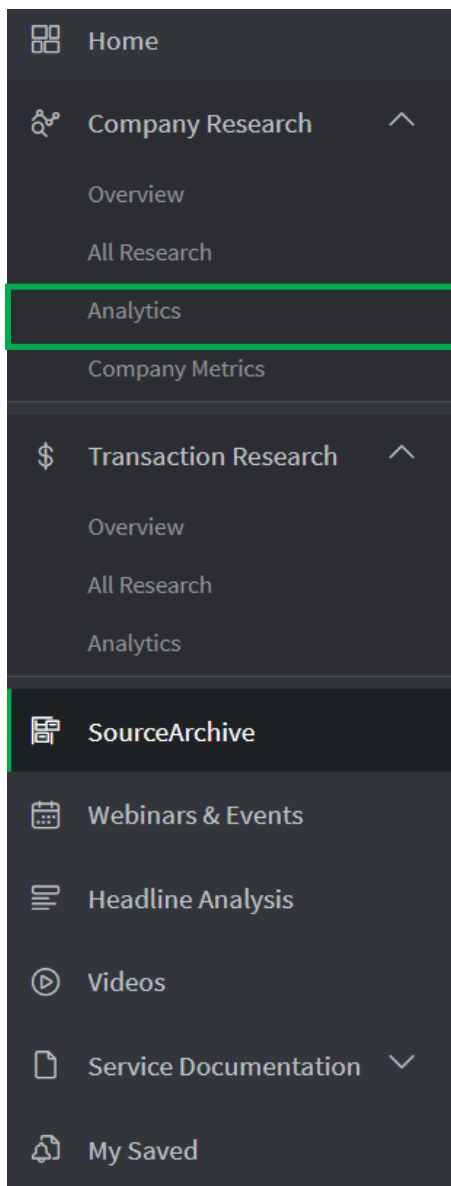
Click on a 3-dot menu to apply an email alert or share it.



# Upstream Company Analytics Tool

Access the **Upstream Company Analytics tool** under **Company Research > Analytics** for analysis and benchmarking of Upstream company operational & financial metrics, which includes:

**E&P Portfolio Tool, Company Valuations, Financial, Operational, and NOC Benchmarking Tools.** Please refer to **slide 58** for an overview of the Tool. Click [here](#) to access the Tool.



# SourceArchive

Access the **SourceArchive** to quickly search multiple company presentations and filings from a single database instead of visiting individual corporate websites.

SourceArchive

Search by keyword...

Use the **keyword search** to access company reports of interest.

Company: Equinor As

From: Pick date To: Pick date

Apply **Company Filter**

Apply **Time Filter**

Document Category:

Annual Reports

Presentations

Annual Rej

Presentati

RESET ALL

CANCEL

SUBMIT

Click **Submit** to access Results

Save your search to **My Saved**

+ SAVE AS...

Material (66)

Equinor Asa - Q4 2019 and CMU 2020 - all presentations PDF 15 MB

06 Feb 2020 | Presentations

Equinor Asa - Press release - fourth quarter 2019 PDF 261 KB

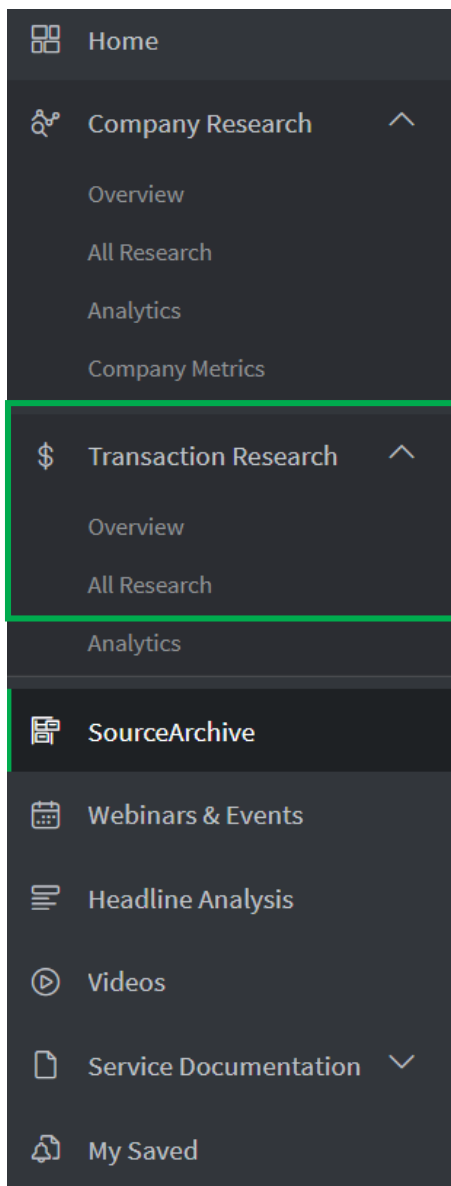
06 Feb 2020 | Presentations

Equinor Asa - Speakers from breakout sessions PDF 142 KB

06 Feb 2020 | Presentations

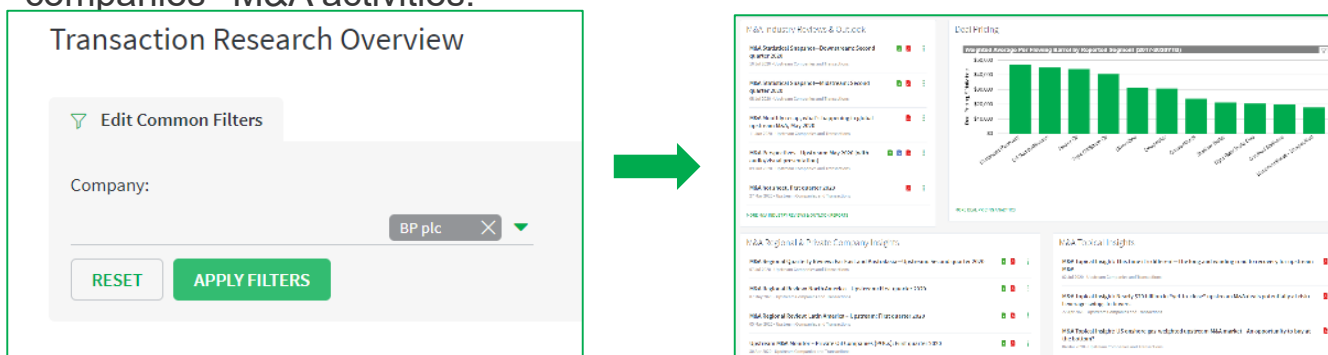
- Home
- Company Research
  - Overview
  - All Research
  - Analytics
  - Company Metrics
- Transaction Research
  - Overview
  - All Research
  - Analytics
- SourceArchive**
- Webinars & Events
- Headline Analysis
- Videos
- Service Documentation
- My Saved

# Transaction Research Page Navigation



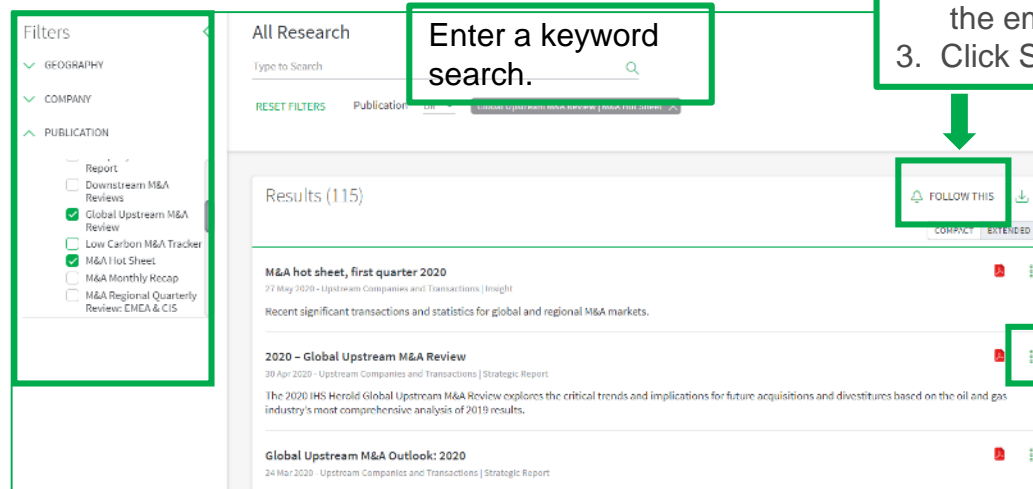
Access global Energy cross-segment **M&A Market Research** documents and **Data and Analytics** from the **Transaction Research** Section.

> Use the **Overview** Section to build a custom dashboard integrating all key documents for your selected companies' M&A activities.



> Use **All Research** Section to navigate to all available Energy M&A Reports.

Use the available filters on the left to access your company Report. You can filter by Company, Name of Publication or Geography.



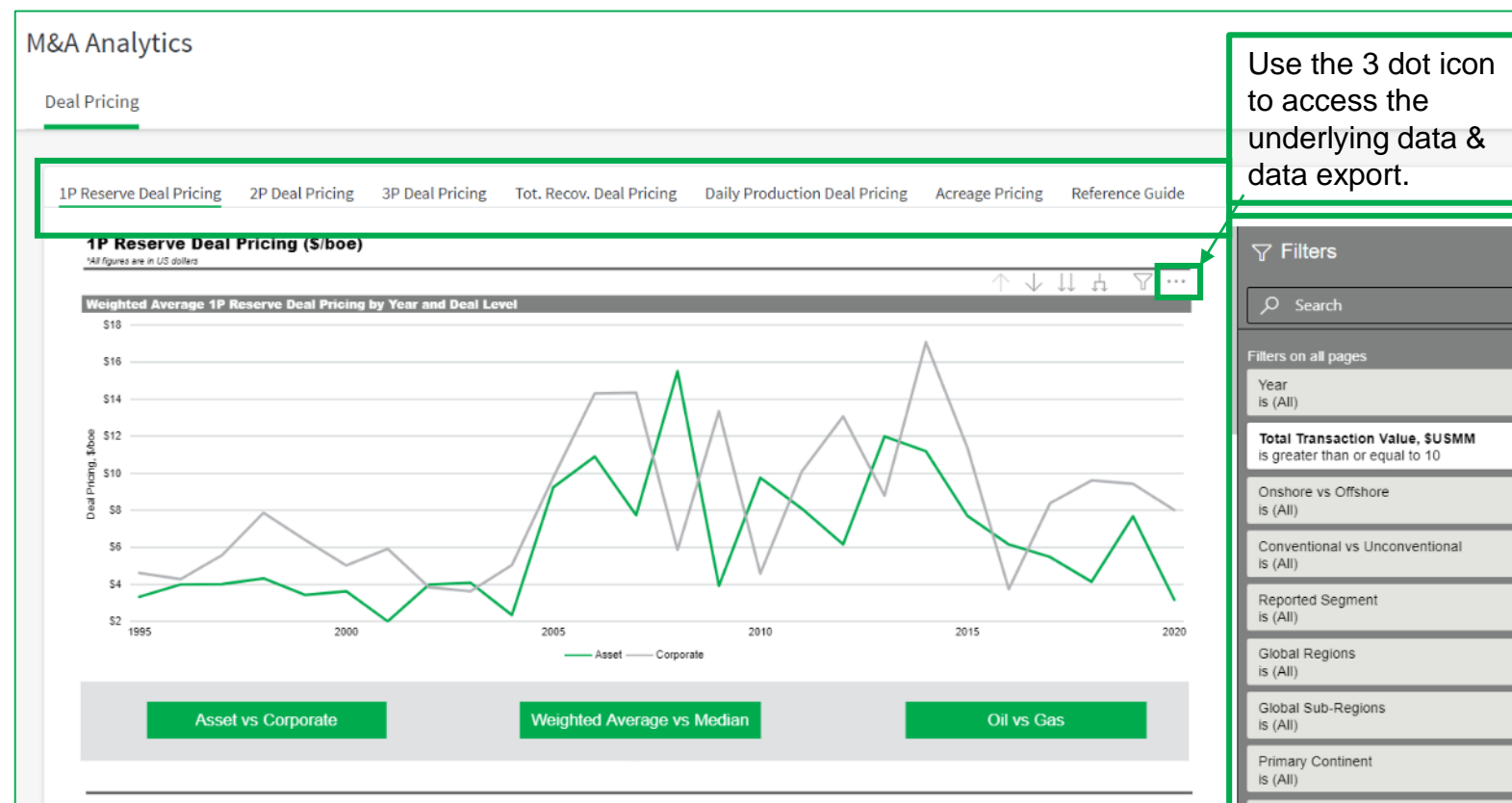
1. Click on **Follow this** above the results listing.
2. In the **Follow This Query** box that appears, select the email alert frequency.
3. Click Save.

Click on a 3-dot menu to apply an email alert or share it.

# M&A Analytics Tool

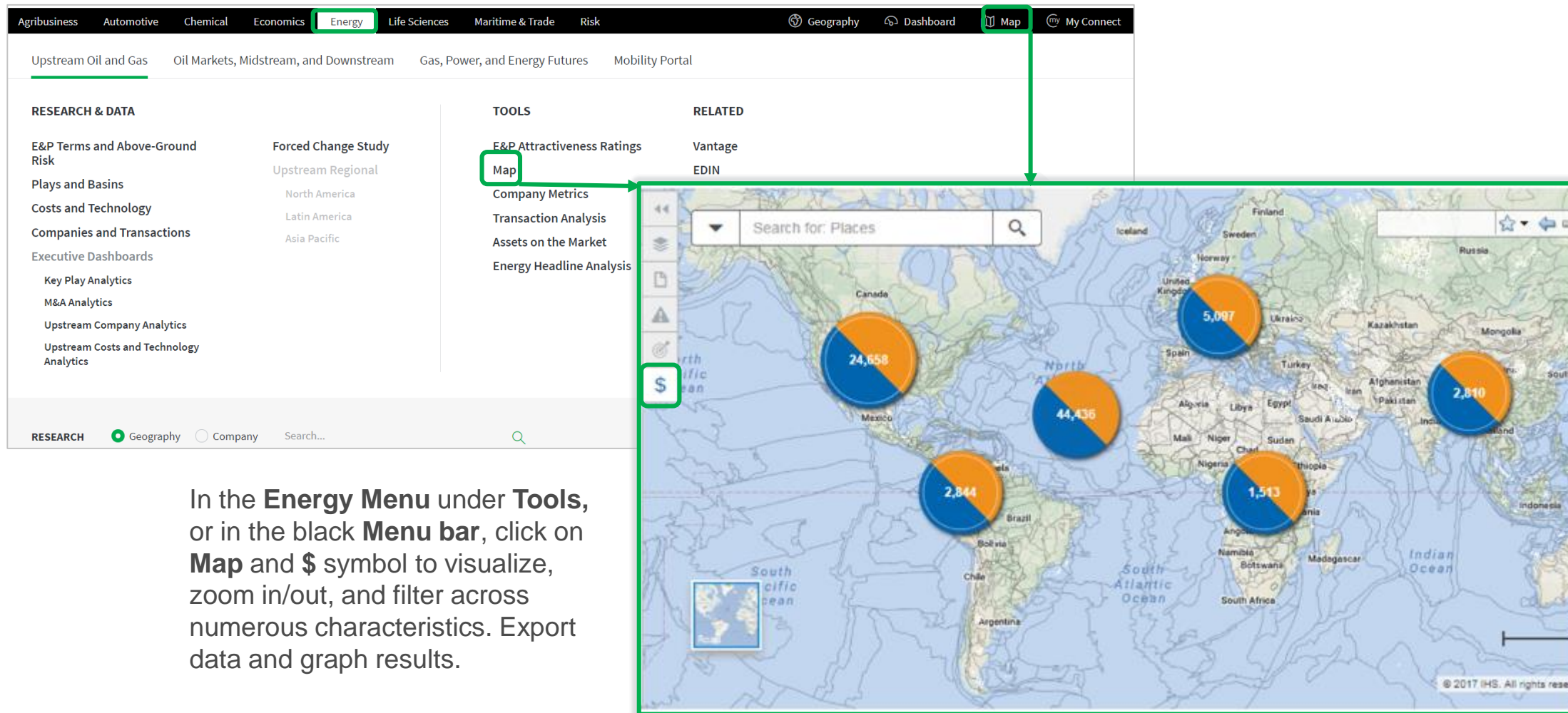
Access the **M&A Deal Pricing Tool** via **Analytics** within the Transaction Research Section.

> Use the **Analytics** Section to access the **M&A Deal Pricing Analytics** tool. Click [here](#) for direct access. Please refer to **slide 60** for an overview of this Tool and other available M&A Tools.





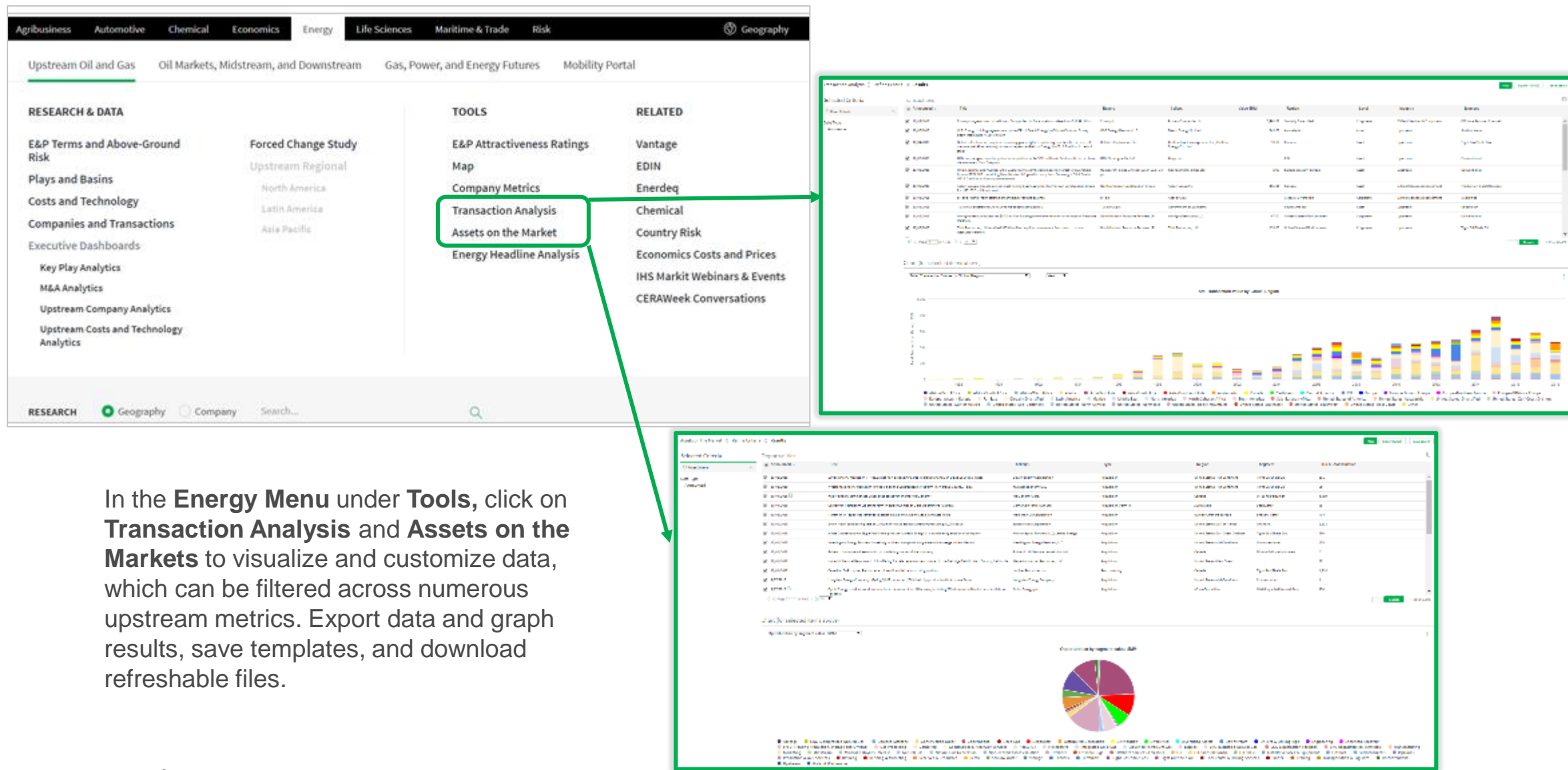
# Transaction & Opportunity Mapping Interface



In the **Energy Menu** under **Tools**, or in the black **Menu bar**, click on **Map** and **\$** symbol to visualize, zoom in/out, and filter across numerous characteristics. Export data and graph results.



# Transaction Analysis & Assets on the Market Data Tools



The screenshot shows the IHS Markit Energy menu with the following sections:

- RESEARCH & DATA**
  - E&P Terms and Above-Ground Risk
  - Plays and Basins
  - Costs and Technology
  - Companies and Transactions
  - Executive Dashboards
    - Key Play Analytics
    - M&A Analytics
    - Upstream Company Analytics
    - Upstream Costs and Technology Analytics
- TOOLS**
  - E&P Attractiveness Ratings
  - Map
  - Company Metrics
  - Transaction Analysis**
  - Assets on the Market**
  - Energy Headline Analysis
- RELATED**
  - Vantage
  - EDIN
  - Enerdeq
  - Chemical
  - Country Risk
  - Economics Costs and Prices
  - IHS Markit Webinars & Events
  - CERAWeek Conversations

The **Transaction Analysis** tool displays a table of transactions with columns: Transaction ID, Title, Date, Value, Unit, Status, and Region. Below the table is a stacked bar chart showing the distribution of transactions by region and type. The chart shows a significant increase in transactions from 2015 to 2020, with a peak in 2019. The regions shown are North America, Latin America, and Asia Pacific.

The **Assets on the Market** tool displays a table of assets with columns: Asset ID, Title, Date, Value, Unit, Status, and Region. Below the table is a pie chart showing the distribution of assets by region and type. The chart shows a significant increase in assets from 2015 to 2020, with a peak in 2019. The regions shown are North America, Latin America, and Asia Pacific.

In the **Energy Menu** under **Tools**, click on **Transaction Analysis** and **Assets on the Markets** to visualize and customize data, which can be filtered across numerous upstream metrics. Export data and graph results, save templates, and download refreshable files.

# Companies and Transactions Webinars & Events

Access all **Upstream Companies & Transactions** past **webinars and expert briefings** via the **Webinars & Events** section on the left

Use the keyword search to access your webinar/event of interest.

## Webinars & Events

Results (55)

### IHS Markit Webinar: Cost and efficiency determining metrics in Latin America

21 Jul 2020 - Upstream Costs and Technology | IHS Markit Event

To register for this webinar, please click here . Date: 21 July 2020 Time: 10:30–12:00 Rio time Speakers: Carlos Rocha Mariana Anjos Re team will discuss important questions and show main metrics to evaluate the...

### IHS Markit Webinar: Retrenchment, resilience, revival: Assessing Sub-Saharan Africa's upstream oil and gas outlo

24 Jun 2020 - E&P Terms and Above-Ground Risk | IHS Markit Event

To watch a replay of this webinar, please click here . The COVID-19 pandemic is having multiple, severe impacts on Sub-Saharan Africa's (SSA) upstream oil and gas industry. Prospects for recovery over the next five years vary across the region. In this webinar, IHS Markit experts address the...

### IHS Markit Webinar: The restart—Historical impact of well shut-ins on unconventional production rates

4 Jun 2020 - Plays and Basins | IHS Markit Event

3 June 2020 | 10:00–10:30 am CDT (Houston time) To view the replay, please click here . Operators are doing everything they can to preserve value during this price collapse, including shutting in wells. While this practice may prevent production from being sold at a loss, there are questions...

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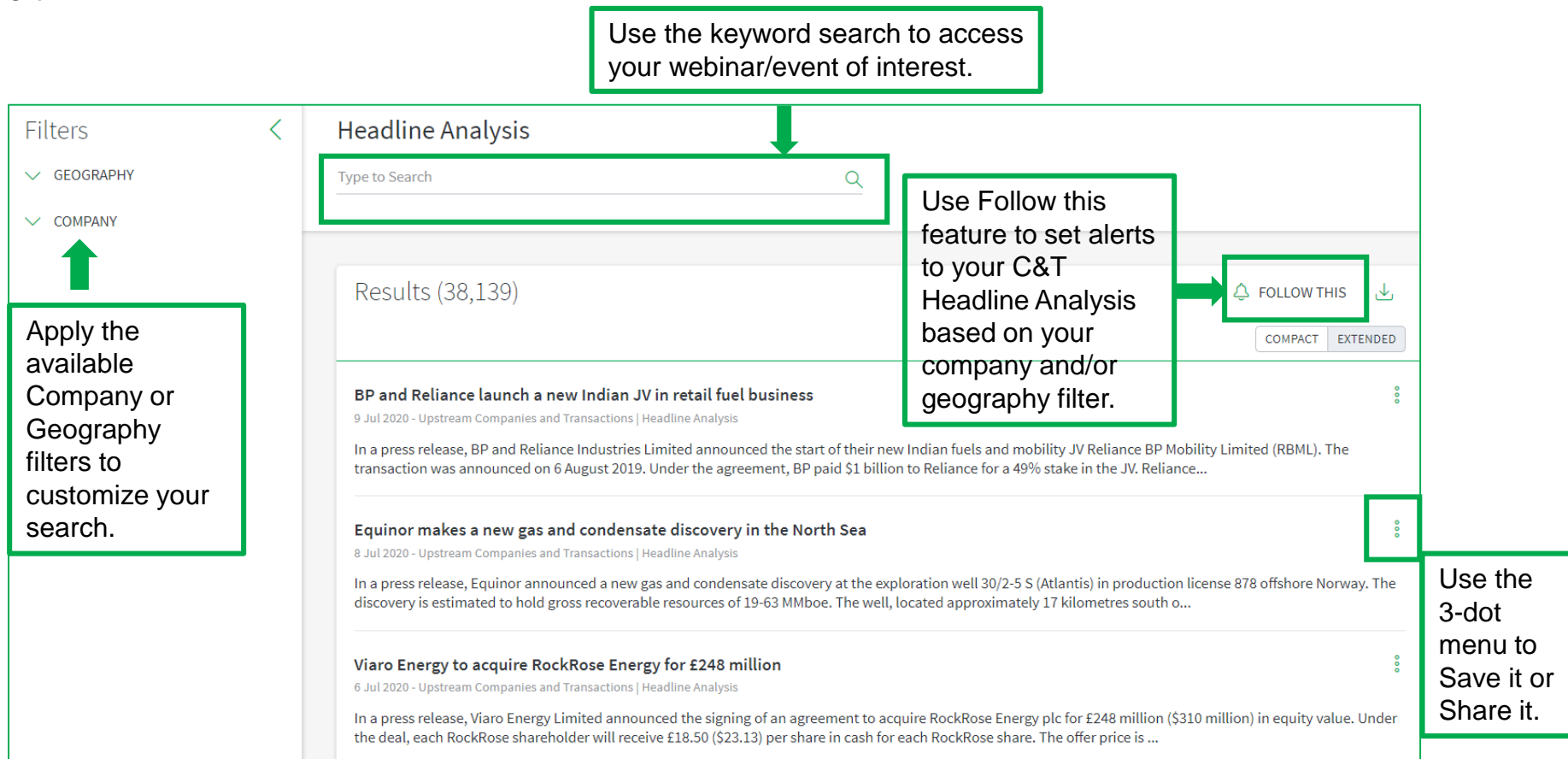
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# Companies and Transactions Headline Analysis

Access all **Upstream Companies & Transactions Headline Analysis** via the respective section on the left



The screenshot displays the 'Headline Analysis' section of the IHS Markit platform. The left sidebar contains navigation options: Home, Company Research, Transaction Research, SourceArchive, Webinars & Events, **Headline Analysis** (highlighted), Videos, Service Documentation, and My Saved. The main content area shows a search bar with the placeholder 'Type to Search', a 'Filters' panel on the left with expandable sections for 'GEOGRAPHY' and 'COMPANY', and a list of results. Three callout boxes provide instructions: 1. 'Use the keyword search to access your webinar/event of interest.' points to the search bar. 2. 'Apply the available Company or Geography filters to customize your search.' points to the 'COMPANY' filter. 3. 'Use Follow this feature to set alerts to your C&T Headline Analysis based on your company and/or geography filter.' points to the 'FOLLOW THIS' button. A fourth callout, 'Use the 3-dot menu to Save it or Share it.', points to a three-dot menu icon next to a result entry.

Use the keyword search to access your webinar/event of interest.

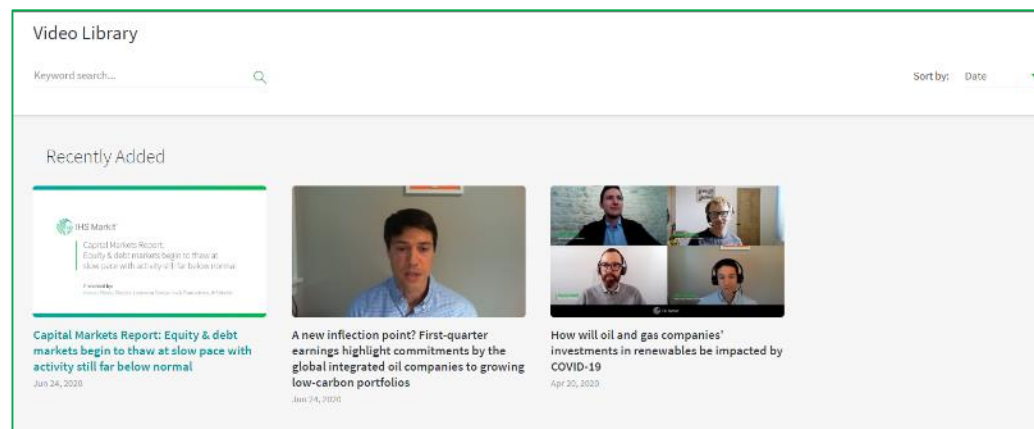
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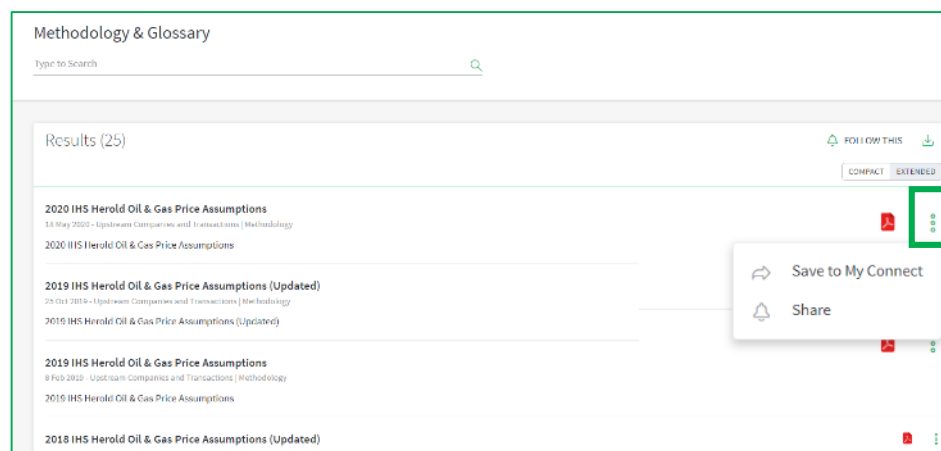
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# Companies and Transactions Videos & Service Documentation

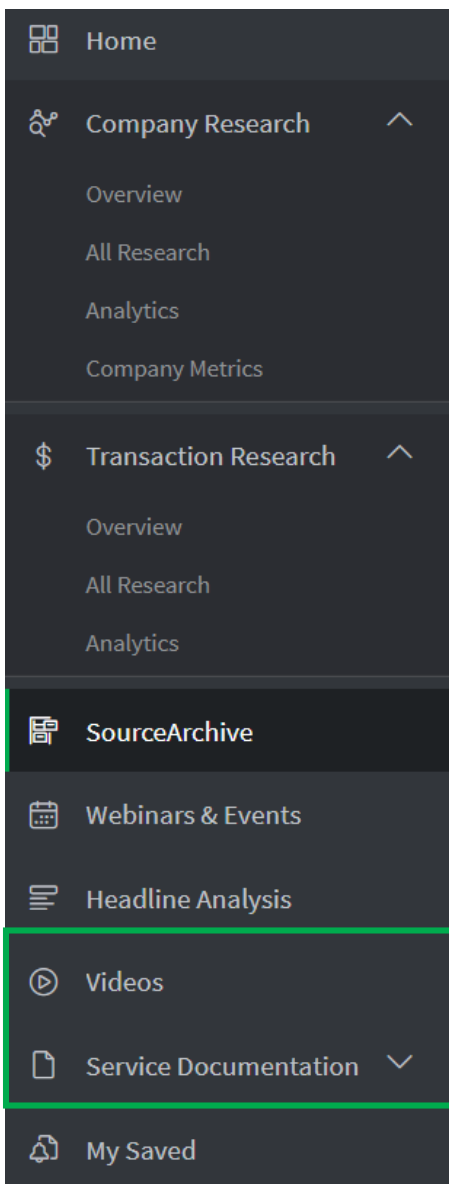
> Use the **Video** Section on the left to access an **expert video library** displaying IHS Markit experts' view and perspectives on the most critical topics impacting the E&P companies and M&A markets globally.



> Use the **Service Documentation** section to access **Methodology** and **Glossary** documents.



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# My Connect

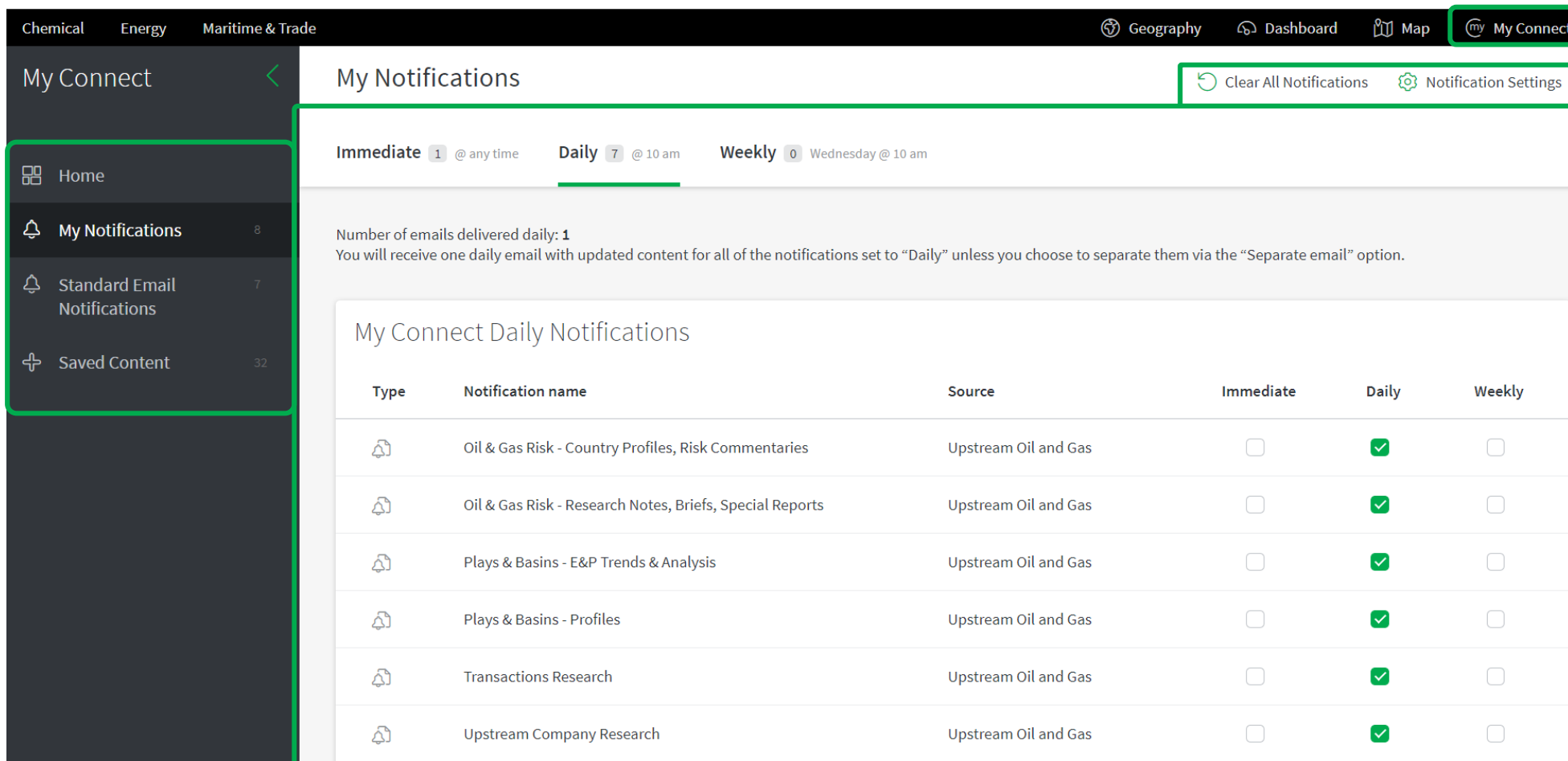
Click on **My Connect** in the black menu bar to manage **Email Notifications** and retrieve **Saved Content**.

**Home:** View your selected notifications and latest saved content.

**My Notifications:** View your selected email notifications by type (Immediate, Daily, Weekly)

**Standard Email Notifications:** A listing of all available email notifications within your subscription.

**Saved Content:** Retrieve and edit your saved content by type and folder.



The screenshot displays the IHS Markit My Connect interface. The top navigation bar includes links for Chemical, Energy, Maritime & Trade, Geography, Dashboard, Map, and My Connect. The left sidebar shows a menu with Home, My Notifications (8), Standard Email Notifications (7), and Saved Content (32). The main content area is titled 'My Notifications' and shows a summary of email delivery: 1 Immediate, 7 Daily, and 0 Weekly. Below this, a table titled 'My Connect Daily Notifications' lists various notification types and their delivery status.

Type	Notification name	Source	Immediate	Daily	Weekly
	Oil & Gas Risk - Country Profiles, Risk Commentaries	Upstream Oil and Gas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Oil & Gas Risk - Research Notes, Briefs, Special Reports	Upstream Oil and Gas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Plays & Basins - E&P Trends & Analysis	Upstream Oil and Gas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Plays & Basins - Profiles	Upstream Oil and Gas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Transactions Research	Upstream Oil and Gas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Upstream Company Research	Upstream Oil and Gas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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