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Connect Login Instructions
Connect Login Instructions

Go to connect.ihs.com and log in with your Username and Password.

Click on ‘Forgot Password?’ to reset your password.
Connect New User Registration

Go to connect.ihs.com and request access.

Follow 4 steps for Connect registration

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 customercare@ihsmarkit.com with your login instructions.
Oil & Gas Risk
Oil & Gas Risk Deliverables

• **Research Notes and Briefs:** Ongoing monitoring and timely analysis of changes to energy policy, investor relations and operational risks tied into OGRS risk factors. *Ad-hoc*

• **Special Reports and Quarterlies:** Detailed analysis of emerging trends affecting investors on a regional, thematic and country level. *Quarterly*

• **Country Profiles:** Analysis of government policy and decision making, energy fundamentals, and competitive environment in top hydrocarbon producing countries. *Ongoing basis*

• **Risk Commentaries:** Overview and analysis of the country-level drivers for each of the risk rating components. *Ongoing basis*

• **Webinars:** Delivered by the best IHS Markit energy thought leaders. *Ad-hoc at least 4 per year*

• **E&P Ratings and Rankings Tool:**
  > Customizable tool to visualize and evaluate risk for 130 countries over the immediate and five-year time-horizons, focusing on 21 upstream risk factors.
  > Captures metrics relating to existing investor success and experience in access, approvals, contract stability and government relations.
  > Adjustable weightings enable clients to create a customized view to focus on relevant risks to support new country entry, project or portfolio assessment.
Oil & Gas Risk in Connect

In Connect, hover over the **Energy** menu > **Upstream Oil and Gas** > click on **PEPS Oil & Gas Risk**.

Access the **E&P Ratings and Rankings** data tool under **Tools**.
Oil & Gas Risk Page Navigation

Research and Data are organized within **topical tabs** to instantly narrow down your search.

You are viewing Country E&P Terms and Above-Ground Risk research

**Keyword search** and relevant filter options.

**View and quickly access research and insights.**

**Relevant Data tools, Charts, and other Resources.**
E&P Ratings and Rankings Tool

In the **Primary Tools** section, click on **E&P Ratings and Rankings** to visualize, customize, and export IHS Markit Oil & Gas Risk Ratings and Rankings.
E&P Ratings and Rankings Tool Functionality

Toggle between Map, Table and Chart View.

Adjust your time period with an interactive slicer.

Q4 2018

Select your countries of interest.

Toggle between IHS and Custom Weights options.

Save your selected region or countries & export your data to excel.

Refer to the featured Traffic Light Methodology for Upstream Investment Risk Assessment.
Costs and Technology
  > Costs & Expenditures
  > Oilfield Equipment & Services
  > Technology & Innovation
Costs & Expenditures Deliverables

- **Upstream Capital Costs:** Quarterly workbook update and CAPEX market review. Semi-annual Upstream Costs workshop and ad hoc insights.
- **Upstream Operating Costs:** Quarterly workbook update and OPEX market review.
- **Global Upstream Spending & Industry Trends:** 4x/year report updating 5-year spending outlook and 2x/year overview of supplier markets outlining key industry drivers.
- **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.
- **Brazil Costs:** 4x/year cost index and periodic strategic sourcing analysis & ad hoc insights, 1x/year workshop.
- **Webinars:** Delivered by the best IHS Markit energy thought leaders. *Ad-hoc at least 4 per*
Oilfield Equipment & Services Deliverables

• **Market Segment Analysis**: Reports are updated 3x/year across more than 30 individual Upstream Market segments covering Engineering & Fabrication; Subsea & Capital Equipment; Rig Markets and Offshore Services & Vessels. Each report analyses and forecasts supply, demand, market balance and cost developments, providing regional breakdowns and competitive analysis.

• **Market Segment Cost Models**: quarterly updated 50+ cost models across 34 market segments. Transparent nearly 300 raw data indices. Date range 2003-2019. (quarterly & annual)

• **Supply Chain Company Profiles**: for 90+ oilfield service & equipment vendors. Each Profile provides valuable insight into vendor capabilities and performance, looking at both project activity and financial data.

• **Supply Chain Company Online Search Tool** provides basic capability details for 800+ supplier and contractors. searchable by vendor name, region, equipment or services segment, capabilities and market position in each segment.

• **IHS Markit IQ Reports** provide detailed analysis & outlook of:
  > play-by-play details of NAM rig counts, well completions, wells frac’ed, frac stages, and stimulated length/WellIQ.
  > US proppant supply, demand, and pricing, by play and proppant type (sand, resin-coated sand, ceramics)/ProppantIQ.
  > Global fracturing services market/PumpingIQ.
  > US oilfield water management market /WaterIQ.
  > Global stimulation chemicals market and trends, including a market overview report and deep-dive reports on 8 key chemical categories (crosslinker, HCl, guar, etc.)/ChemIQ.
  > **Material Price Tables & Headline Analysis**
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**
Costs and Technology in Connect

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

**Costs and Technology**
- Costs & Expenditures
- Oilfield Equipment & Services
- Supply Chain Companies
- Technology & Innovation

**Plays and Basins**
- Play and Basin Profiles
- E&P Trends & Analysis
- Global Exploration & Production Service (GEPS)
- EDIN

**Companies and Transactions**
- Company Valuation & Strategy
- Performance Benchmarking
- Company Play Analysis
- M&A Analysis & Trends

**Executive Dashboards**
- Key Play Analytics
- Upstream Company Analytics
- E&P Attractiveness Analysis Tool
Costs & Technology Page Navigation*

Research and Data are organized within **topical tabs** to instantly narrow down your search.

Keyword search and relevant filter options.

View and access **files** quickly.

*Applicable to each Costs & Technology Capability.
## Costs & Technology Topical Tabs on Research Page

### Costs & Expenditures

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<th>Market Update &amp; Summary of all Indexes Excel Workbooks for:</th>
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<td>Global Upstream Spending &amp; Industry Trends Reports</td>
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### Oilfield Equipment & Services

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### Supply Chain Companies

| Supply Chain Company Profiles |

### Technology & Innovation

| IHS Markit Oil and Gas Digitalization Workshops |
| Technology Screening Reports |
| Technology Trends Reports |
| Special Reports |
| Insights |

### Webinars & Events

| Event workshop presentation materials |
| Webinar recordings and presentation materials |

*This is an example of key research deliverables. More research is available on this page in Connect.*
Supply Chain Company Search Tool

You are viewing **Upstream Costs and Technology research**

In the **Primary Tools** section, click on **Supply Chain Company Search** to search across 1,000 equipment and service suppliers by capability, segment, region and/or market position.
Upstream Costs and Technology Analytics

You are viewing Upstream Costs and Technology research

In the Analytics and Charts section, click on Upstream Costs and Technology Analytics to visualize, customize, and export data related to Global Onshore Markets and North American Completions.
Costs & Technology Dynamic Charts

You are viewing Upstream Costs and Technology research

In the Analytics and Charts section, click on a relevant option to visualize, customize, and export Upstream Costs and Market Segment Cost Indexes.
Plays and Basins
Plays and Basins Deliverables

• **Plays and Basins North America**: Provides the most comprehensive forward-looking analysis of oil and gas exploration and development activity in leading unconventional resource plays in both the U.S. and Canada.
  > Regularly published insight into competitive activity in North American unconventional plays.
  > Type curves and economics for different sub-plays within each play.
  > Benchmarking of key operators by daily production and economics.
  > Trends in well construction and drill times.
  > Rig-based, market constrained production forecasts for North American resource plays.
  > Forward-looking evaluation of emerging plays.
  > Direct access to IHS Markit experts.

• **Basin Insights**: the 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.
  > Regularly updated briefs that answer questions such as:
    > To **whom** is this basin most important, and why?
    > **How** is value being created in this basin, and by whom?
    > **What** are the drivers of future basin development?

• **Leading Indicator Memos**: High-frequency report series that assess implications of events affecting select basins:
  > E&P Trends
  > Critical Wells
  > Competitive Landscape
  > Policy Shifts
Plays and Basins
In Connect, hover over the Energy menu > Plays and Basins > Click on Plays and Basins Profiles.
Access Key Play Analytics data tool under Executive Dashboards.
Plays and Basins Insights in Connect

Research and Data are organized within **topical tabs** to instantly narrow down your search.

View and access **files** quickly.

Other Relevant Energy platforms, Analytics, and Resources.

Keyword search and relevant filter options.
Plays and Basins Topical Tabs on Research Page

Plays and Basins Profiles

- Analyst insights on basin and play-level competition, value-creation, and forecast

E&P Trends & Analysis

- High-frequency report series that assess implications of events affecting select basins
- E&P Trends
- Critical Wells
- Competitive Landscape
- Policy Shifts

Webinars and Events

- Event workshop presentation materials
- Webinar recordings and presentation materials

*All other tabs are entitled separately.

*This is an example of key research deliverables. More research is available on this page in Connect.
Plays and Basins Key Play Analytics

In the Primary Tools section, click on a Key Play Analytics to visualize, customize, and filter data by plays, operators, dates and metrics.
Companies and Transactions
Companies and Transactions Deliverables

**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.
Companies and Transactions in Connect

In Connect, hover over the Energy menu > Companies and Transactions > Click on Companies and Transactions topics. Access the Upstream Company Analytics under Executive Dashboards and other data tools under Tools.
### Companies and Transactions Topical Tabs on Research Page

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<td>Company Valuation Reports</td>
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<td>Company Play Analysis</td>
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<td>Analyst Insights Presentations</td>
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<tr>
<td>Memos &amp; Insights</td>
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<td>Headline Analysis</td>
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Upstream Company Analytics and Data Tools

**E&P Portfolio Visualization Tool**: newly designed and updated, the E&P Portfolio Tool is a comprehensive web-based interface that allows users to explore both historical oil and gas production, as well as forecast volumes based on up-to-date IHS Markit analysis of company portfolios.

**Company Valuation Visualization Tool**: a comprehensive web-based interface that allows users to explore both historical company valuation changes, relative share price performance, as well as our independent forecast for EBITDA, cash flow, and net income.

**Company and Peer Benchmarking Metrics on Power BI**: allows users to easily benchmark companies versus peers across many financial & operational metrics. Includes auto-generated charts, ability to customize peer groups, and easy access to underlying data.

**Company Metrics**: comprehensive financial & operational database. 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.

**Global Projects**: contains information on projects, both onshore and offshore, with a focus on the upstream exploration and production sector. Over 8,500 projects worldwide, upstream asset types include conventional, deepwater, enhanced/improved recovery, heavy oil, and bitumen/oil sands.
Upstream Company Analytics and Data Tools

In the **Primary Tools** section, click on a **Upstream Company Analytics**, **Company Metrics** and **Global Projects** to visualize data, which can be filtered by operators, years and top metrics. Save templates and download refreshable files.

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**Key Implications**

Anadarko’s adjusted net worth (NOW) increased by 35% in 2017 to $12.9 billion, reflecting an increase in year-end 1-P reserve estimates due to higher commodity prices and a change to a pre-tax basis for calculating NOW, which impacted depreciation. The divestiture of non-core assets also contributed to the increase in NOW. Anadarko’s 2017 net loss ($29.1 billion) was primarily attributed to the $13.3 billion impairment charge related to the divestiture of NOC and other assets. The net loss attributable to Anadarko’s “Total” column was $18.5 billion. The net loss attributable to Anadarko’s “Total” column was $0.01 billion.
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.

**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.
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.
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.
Customize Your Research

Email alert options and your saved research.
**My Connect**

Click on **My Connect** in the black menu bar to manage **Email Notifications** by selecting/deselecting the check boxes in the **Immediate**, **Daily** or **Weekly** columns.

Click into **Settings** to set the timing of your alerts. Click **Apply**.

Retrieve your saved **Content by Type and Folder**.
Customize Your Research: Save and Follow an Individual Document.

Save an individual document into My Connect and apply an email alert to be notified when that document is updated.

1. Hover over the title of the report and click on the green arrow.

2. Click on the plus sign that appears at the bottom of the dropdown.

3. In the Follow This Publication box that appears, select the Save for later folder or click into the dropdown to create your own folder.

4. Select your email alert preference and click Apply.

5. The Archive button next to the report title indicates that this is a recurring deliverable and an email alert can be set. Click into this button to group and view the historical reports.

The folders and saved documents are placed in the My Connect section in the top, black menu bar.
Customize Your Research: Save and Follow a Research Page

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

1. Apply filters or a key word search on a research page.
2. Click on Follow this above the results listing.
3. In the Follow This Page box that appears, Name your page and select the Save for later folder, or click into the dropdown to create your own folder.
4. Select your email alert frequency.
5. Click Apply.

Saved pages are placed in My Connect and in the Saved Pages section for easy retrieval and editing.
Contact Us
For questions or assistance, contact our Customer Care team.

Schedule a complimentary Connect training:
IHSConnectTraining@ihsmarkit.com

Access IHS Markit Connect anywhere, anytime for the information, insight and analytics necessary to make critical decisions. Download the free Connect iPad and Smartphone apps to your mobile device.

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