



# **Total Energy & Mining Metrics (TOTEMM)**

**Web Mapping Experience and Power BI User Guide  
V2.0**

**April 15, 2022**

## **TOTEMM is the premier global energy and mining competitive / market intelligence data product**

SETLD's Total Energy & Mining Metrics (TOTEMM) provides an innovative spatial-representational view of competitive / market intelligence and quantitative / qualitative metrics sourced from unstructured news, investor presentations, financial filings, website scrapes, etc.

SETLD TOTEMM reduces the need for time-consuming data aggregation, manual processing and hub-and-spoke analyses by leveraging extreme data engineering and automation. Our web mapping applications and charting interfaces provide unique insights and extreme value for energy and mining professionals worldwide.

## Inputs

**SETLD levers extensive automation to gather most inputs:**

- Daily News - ~15k articles per day from 50k custom source links / searches
- Daily Sites - ~12k delta first level site scrapes per day for 18k organizations (base link, IR link, news link, LinkedIn link, twitter link, other link for each)
- Weekly Sites - ~80k delta second level site scrapes per week
- Sites Scraped Per Week - ~165k total from above
- Daily Financials - ~100-1000 financials per week, high variance brought in daily depending on time of year
- Weekly Pubs - ~10k publications per week
- Daily Base Points - averages ~125k automated spatialized points per day representing the basics of today's news, pubs, sites, fins inputs (e.g., Chevron is a top word, post points at their HQ and their largest known geography; also post a point at the article's repeated geography, etc.)

## Processing

**SETLD has built a substantial framework to interpret and process these inputs:**

- TOTEMM standards & governance, coded value tables, reference spatial datasets and lookups (e.g., 300+ org types, 30 columns of information for >18k organizations)
- TOTEMM interpretations - ongoing - human interpretation and entry to our data model via custom software w/ key facets auto-deduced for every interpreted record
- Automated financial records
- Static and automated / ongoing sideloads, which are interesting or loose industry datasets, conformed to our model (often for location context or to fill gaps)
- Every data point in TOTEMM is tied to the most granular location on the earth; we've compiled one of the most extensive representational energy POI datasets on the market
- Special processing allows us to roll items through known regions and apply special tagging to enhance usability



## Interfaces

**SETLD has built interfaces to demonstrate how to use our product:**

- Power BI Chart Set - with key lifecycle and utilitarian tabs
- ArcGIS Online Map App Set - overall maps and maps per lifecycle section
- Searchkit - Google-like search interface for searching hundreds of millions of TOTEMM documents
- Future - custom interface blending all of the above (charts, maps, search) and adding extensive user customization and reporting options



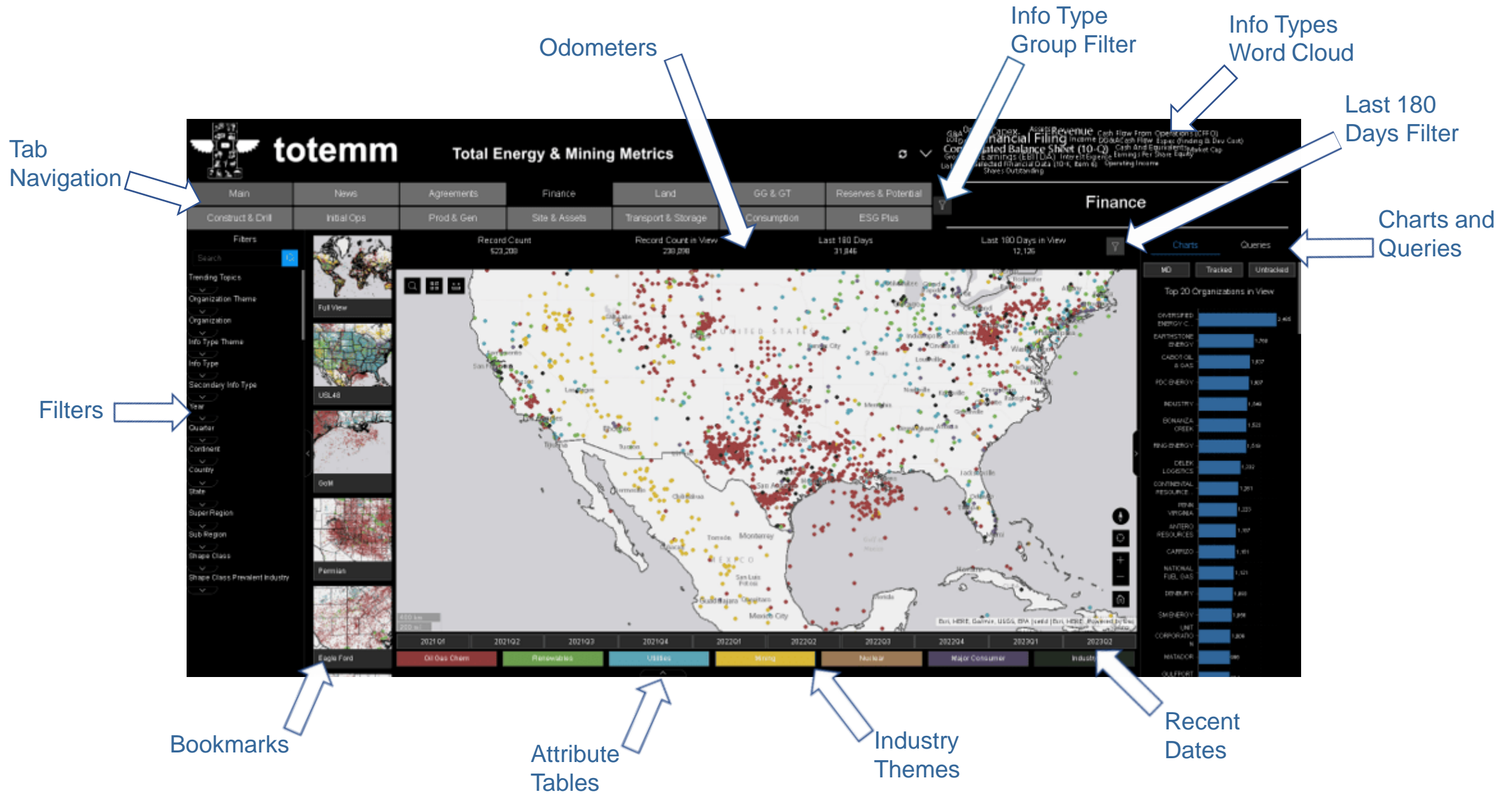
Experience Builder is an Esri web application that gives users the ability to create both mapcentric and nonmapcentric apps. With out of the box widgets and tools, drag-and-drop operations makes designing your own templates all within one application. Filters and queries can be applied simultaneously to analyze and discover new relationships.

The SETLD TOTEMM Web Mapping Experience is a live view into our daily updated datastore.

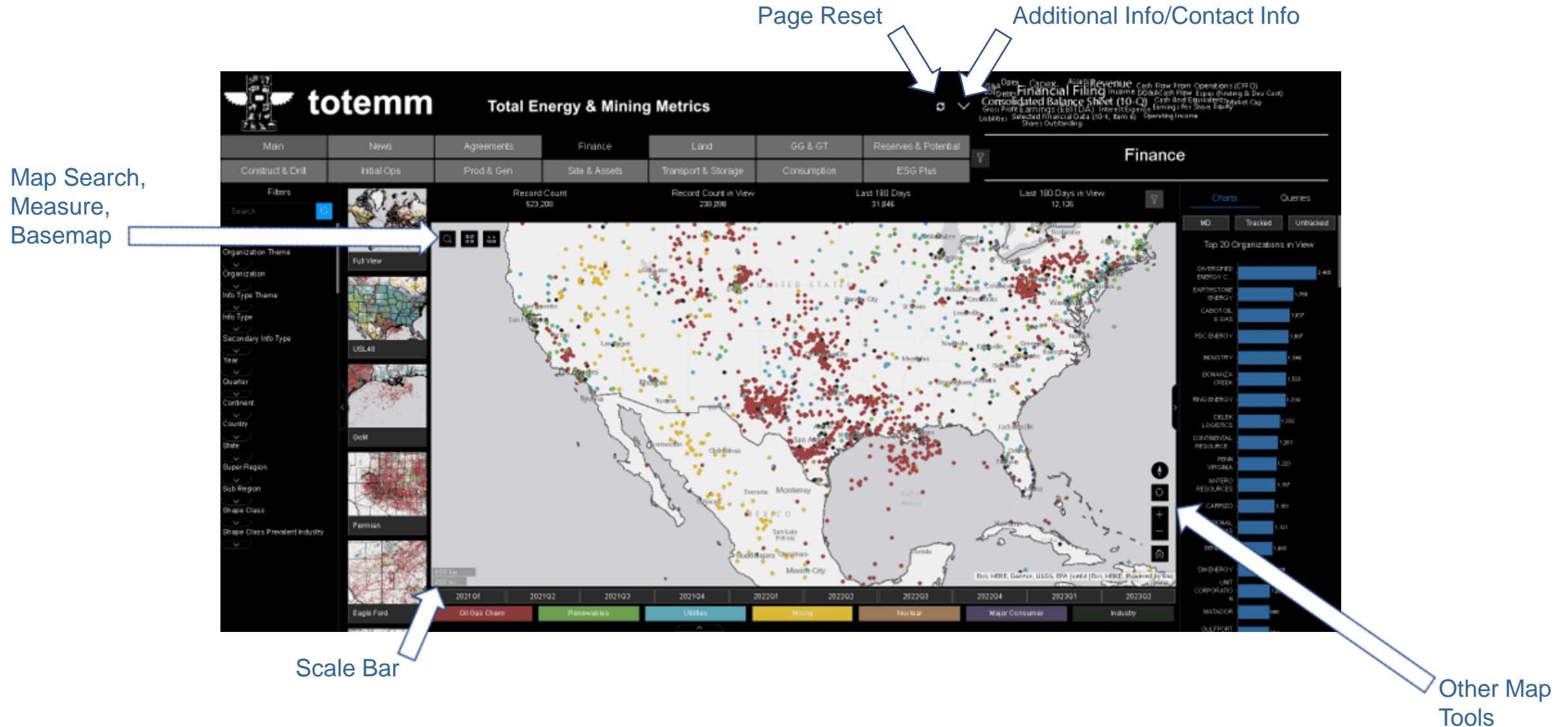
## Advantages of Experience Builder

- Out-of-the-Box / Ubiquitous
- Displays data in a familiar Esri graphical format
- Drag-and-Drop design is easy to learn and manage while providing flexibility in creating reusable templates
- Allows for easy analysis of spatial features with filtering and querying

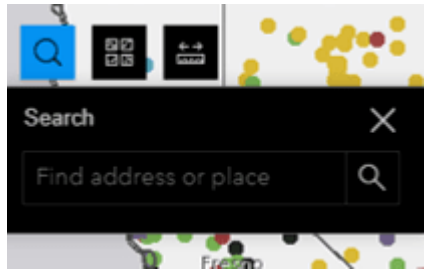
# TOTEMM Web Mapping Experience – Overview



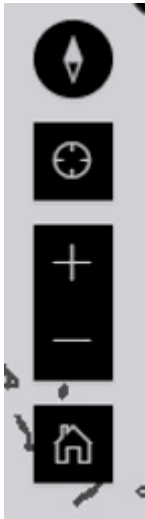
# TOTEMM Web Mapping Experience – Overview



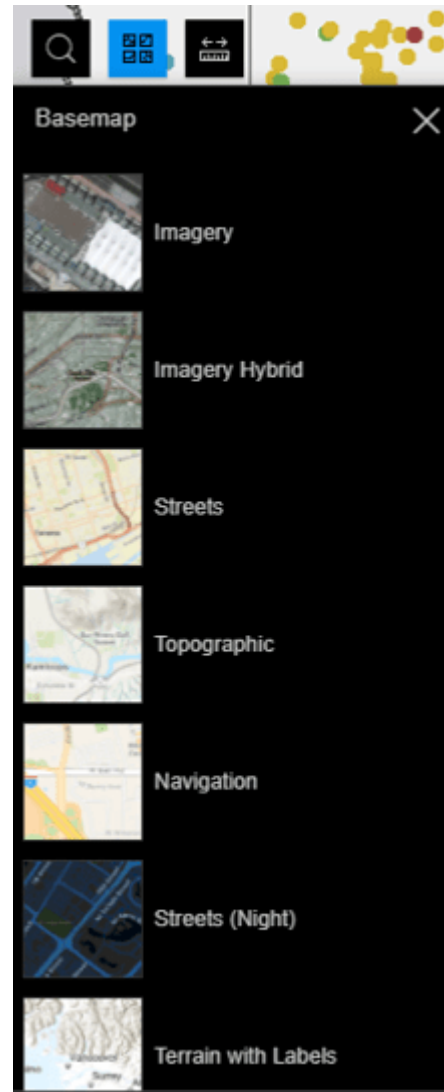
# TOTEMM Web Mapping Experience – Map Tools



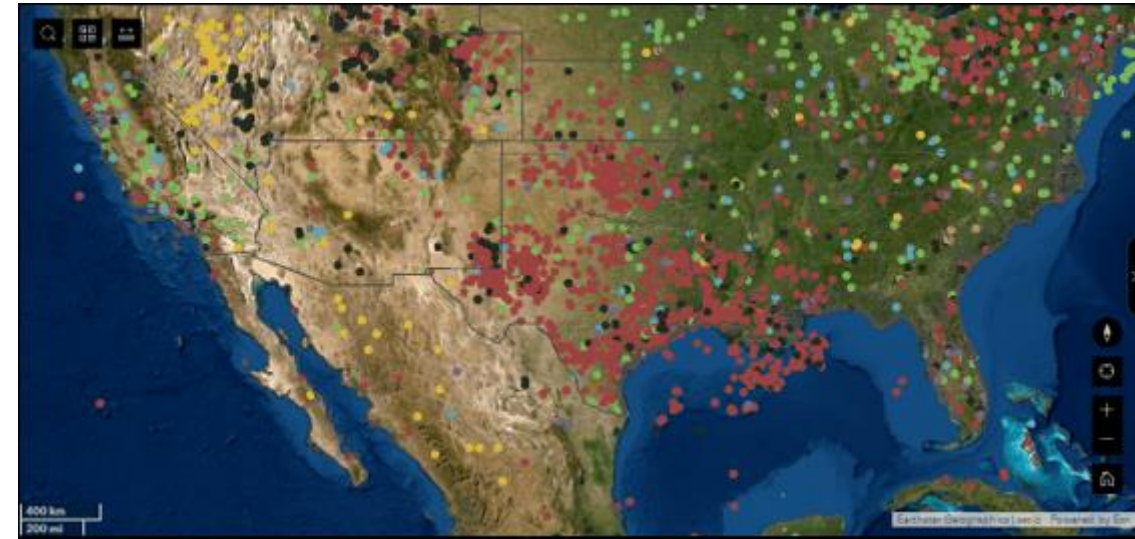
Search for  
addresses and  
locations



- Reset map orientation
- Find my location
- Manual selections for zoom in/out
- Home button resets your screen to the default area of interest



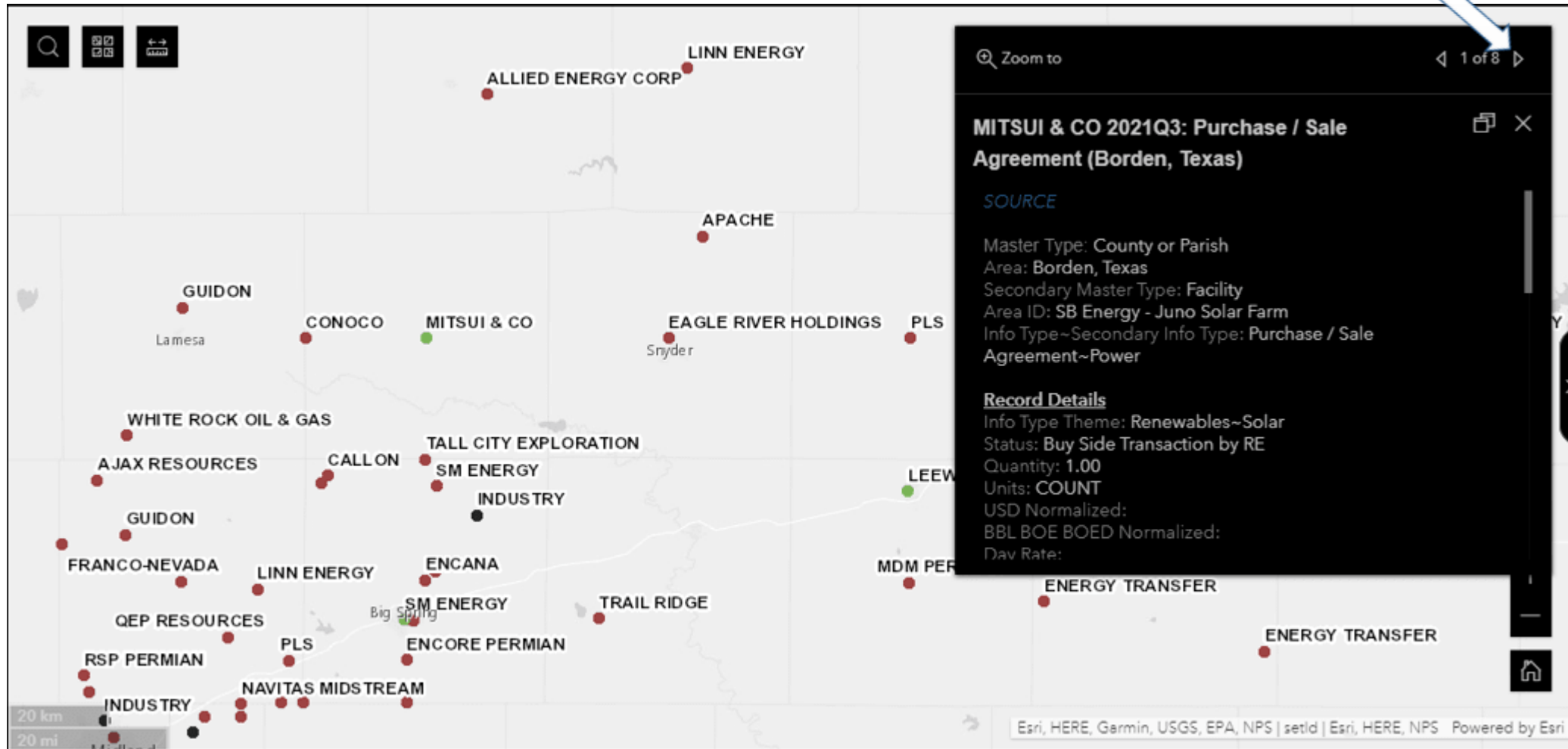
Change the basemap here



# TOTEMM Web Mapping Experience – Feature Interaction

Selecting features returns pop-ups with attributes for those features

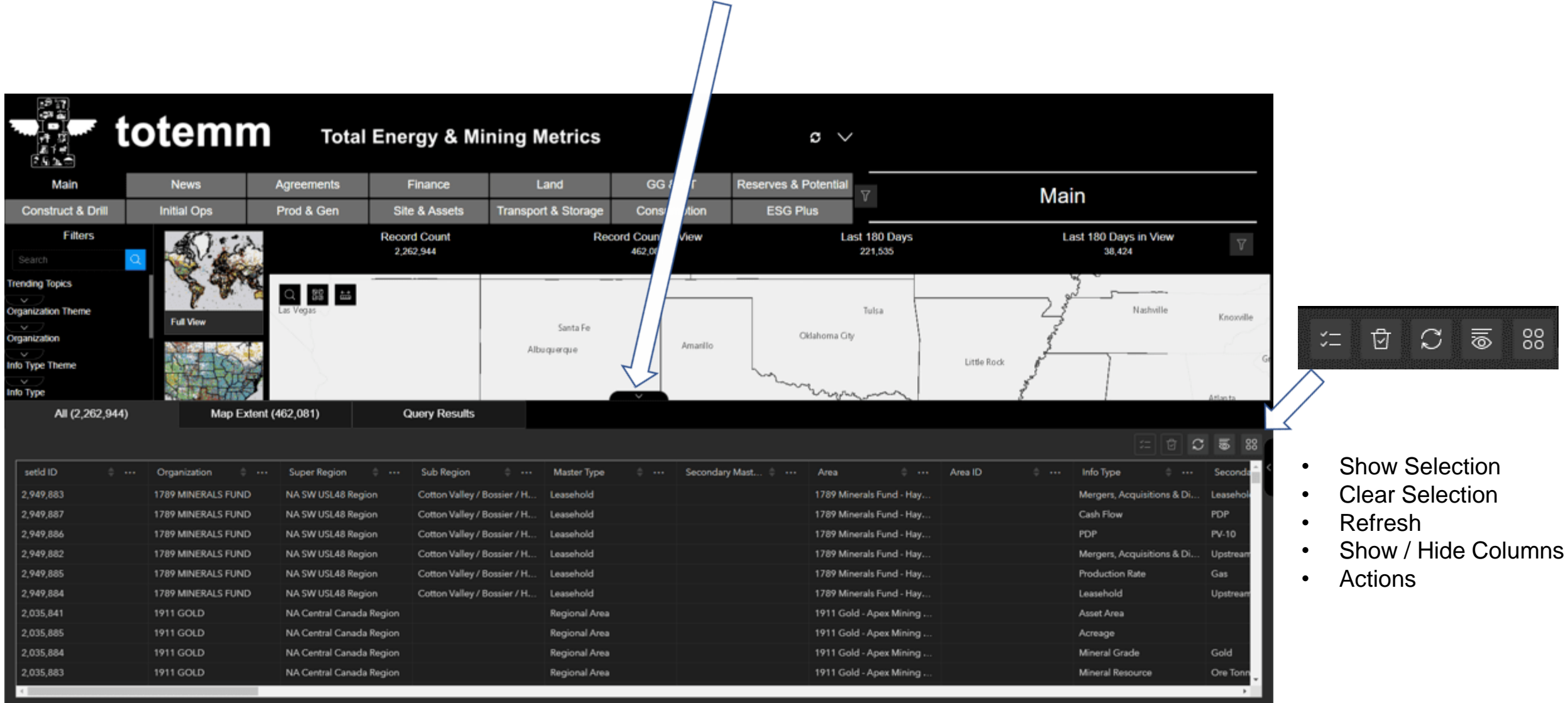
Access to attributes for overlapping features may be navigated via the arrows at the top of the pop-up





# TOTEMM Web Mapping Experience – Attribute Table Display / Interaction

The black tab on the bottom of the screen pulls open to reveal attribute tables



The screenshot displays the TOTEMM web mapping interface. The top navigation bar includes the TOTEMM logo and the title "Total Energy & Mining Metrics". Below this, there are tabs for "Main", "News", "Agreements", "Finance", "Land", "GG /", "Reserves & Potential", "Construct & Drill", "Initial Ops", "Prod & Gen", "Site & Assets", "Transport & Storage", "Construction", and "ESG Plus". The "Main" tab is currently selected.

The interface features a map of the United States with various regions labeled, including Las Vegas, Santa Fe, Albuquerque, Amarillo, Oklahoma City, Tulsa, Little Rock, Nashville, Knoxville, and Atlanta. A blue arrow points to a black tab at the bottom of the map, which is used to pull open the attribute table.

Below the map, there is a table with the following columns: setid ID, Organization, Super Region, Sub Region, Master Type, Secondary Mast..., Area, Area ID, Info Type, and Seconda. The table contains several rows of data, including records for 1789 MINERALS FUND and 1911 GOLD.

On the right side of the interface, there is a toolbar with five icons: a checkmark, a trash can, a refresh symbol, a list icon, and a grid icon. A blue arrow points to this toolbar, which is used for various actions related to the attribute table.

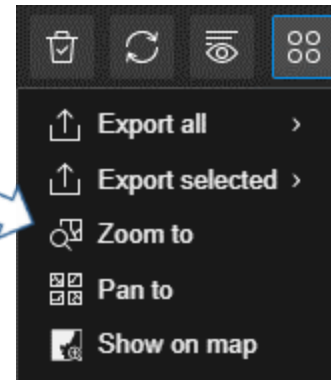
- Show Selection
- Clear Selection
- Refresh
- Show / Hide Columns
- Actions

# TOTEMM Web Mapping Experience – Attribute Table Display / Interaction

Users may zoom to features by row selection(s) from the table as shown below. Features on the map highlight when row(s) are selected. When row(s) are highlighted more actions are available, export selected, zoom to, pan to, show on map

The screenshot displays the TOTEMM web mapping interface. The top navigation bar includes the TOTEMM logo and the title "Total Energy & Mining Metrics". Below this is a secondary navigation bar with tabs for Main, News, Agreements, Finance, Land, GG & GT, and Reserves & Potential. The main content area is divided into a left sidebar with filters and a central map. The sidebar includes a search bar, trending topics, and various filter categories like Organization Theme, Info Type Theme, and Year. The map shows a geographical view with several labeled points of interest, including "SCHLUMBERGER 1986Q4", "1789 MINERALS FUND 2022Q2", and "TEXAS RRC 1955Q1". A blue dot on the map is highlighted, and a blue arrow points from it to the attribute table below. The attribute table has columns for setid ID, Organization, Super Region, Sub Region, Master Type, Secondary Mast..., Area, Area ID, Info Type, and Seconda. The table contains several rows of data, with the first row being highlighted in blue.

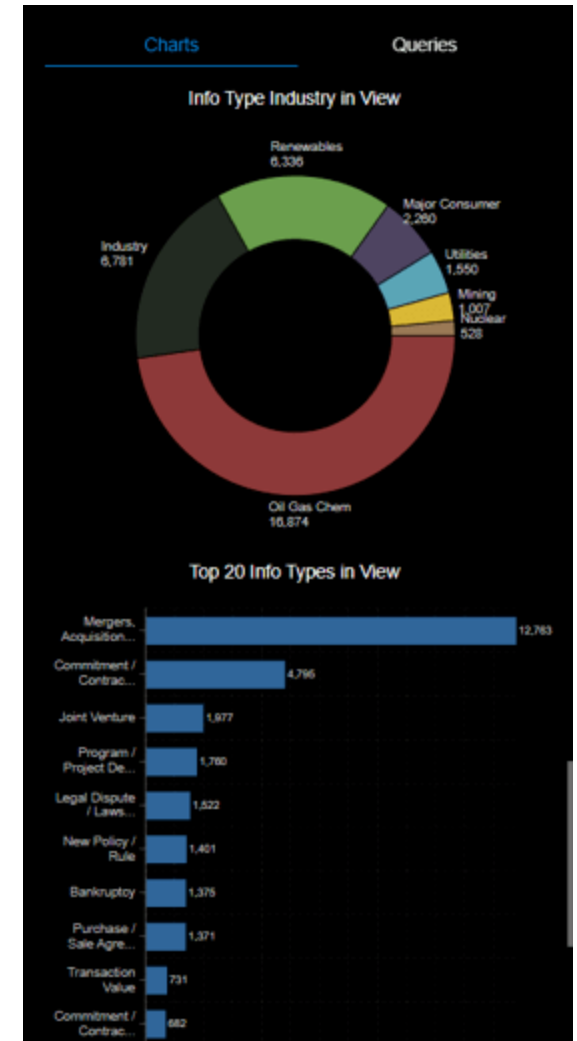
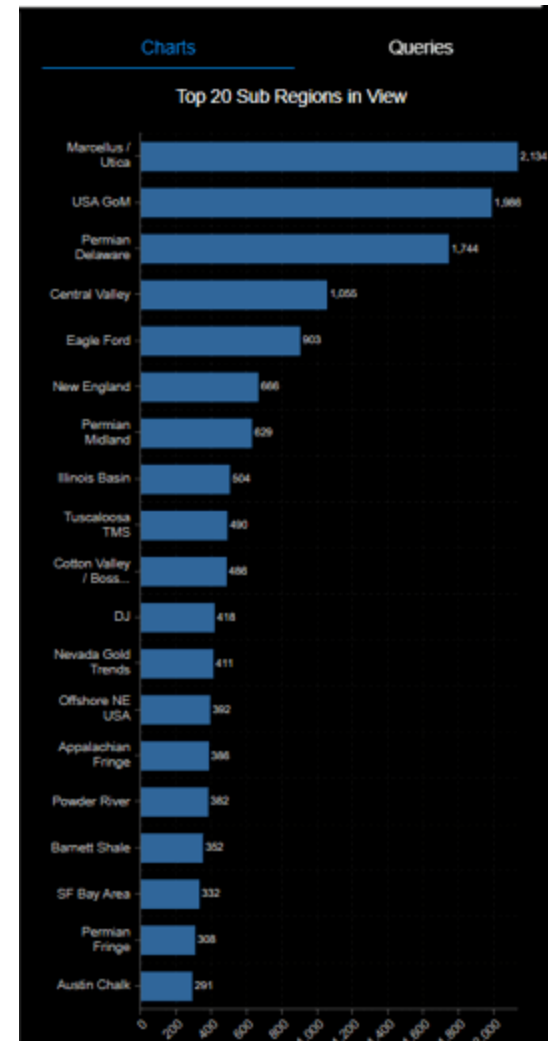
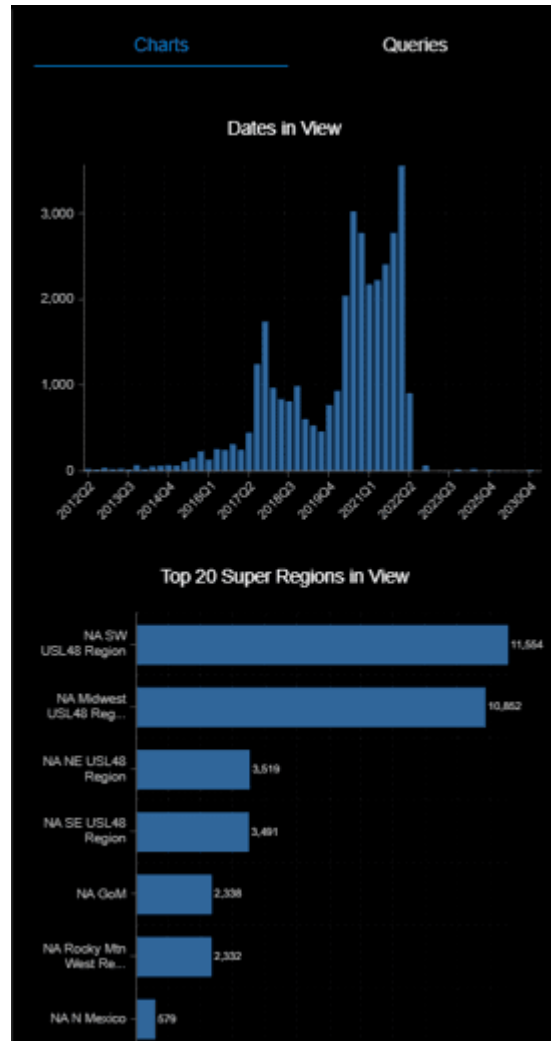
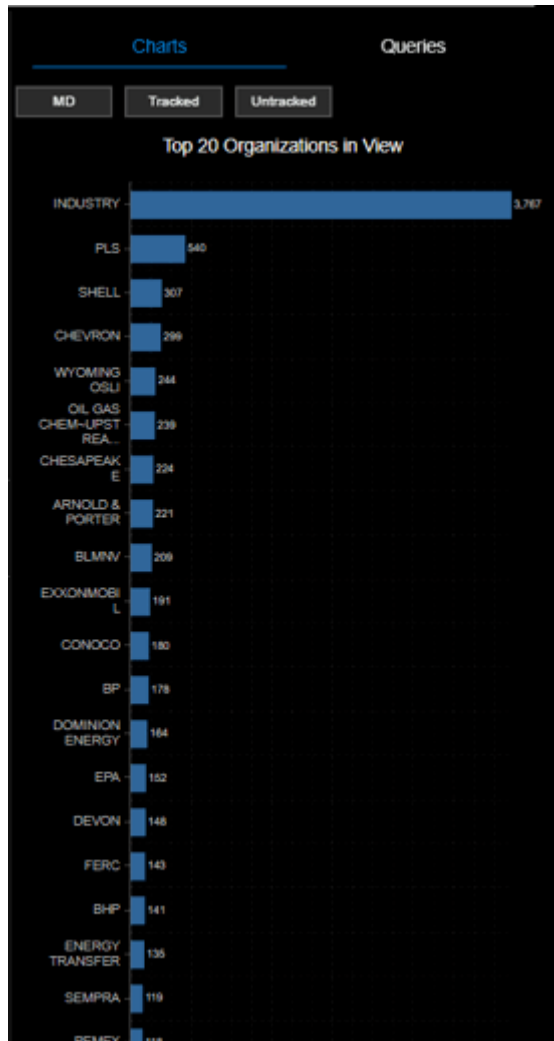
setid ID	Organization	Super Region	Sub Region	Master Type	Secondary Mast...	Area	Area ID	Info Type	Seconda
2,949,883	1789 MINERALS FUND	NA SW USL48 Region	Cotton Valley / Bossier / H...	Leasehold		1789 Minerals Fund - Hay...		Mergers, Acquisitions & Di...	Leasehold
2,949,887	1789 MINERALS FUND	NA SW USL48 Region	Cotton Valley / Bossier / H...	Leasehold		1789 Minerals Fund - Hay...		Cash Flow	PDP
2,949,886	1789 MINERALS FUND	NA SW USL48 Region	Cotton Valley / Bossier / H...	Leasehold		1789 Minerals Fund - Hay...		PDP	PV-10
2,949,882	1789 MINERALS FUND	NA SW USL48 Region	Cotton Valley / Bossier / H...	Leasehold		1789 Minerals Fund - Hay...		Mergers, Acquisitions & Di...	Upstream
2,949,885	1789 MINERALS FUND	NA SW USL48 Region	Cotton Valley / Bossier / H...	Leasehold		1789 Minerals Fund - Hay...		Production Rate	Gas
2,949,884	1789 MINERALS FUND	NA SW USL48 Region	Cotton Valley / Bossier / H...	Leasehold		1789 Minerals Fund - Hay...		Leasehold	Upstream
2,035,841	1811 GOLD	NA Central Canada Region		Regional Area		1811 Gold - Apex Mining		Asset Area	





# TOTEM Web Mapping Experience – Charts

Charts display values depending on map extent and filter selections



# TOTEMM Web Mapping Experience – Queries

Queries are a powerful tool to dive deep into data and can be used to highlight and refine areas for further study.

Each tab has a different set of standard queries

## Agreements

Charts	Queries
Contract / Negotiation	>
Transaction Value	>
Ownership Transfer	>
Collaboration / JV	>
FID	>
Policy / Rule	>
Legal Dispute / Business Decisions	>
Project	>
Operations	>
Currently Bankrupt	>

## Finance

Charts	Queries
Revenue	>
Earnings / Cashflow	>
Assets / Debts	>
Capex / Opex	>
Investments / Value	>
Return	>
Financial Filings	>

## Construct & Drill

Charts	Queries
Construction	>
Drilling	>
Construct & Drilling Costs	>

# TOTEMM Web Mapping Experience – Executing a Query

The screenshot shows the 'Queries' panel in the TOTEMM web mapping interface. It features a sidebar with various filter categories: 'Attribute filter' (including Organization, Info Type Industry Theme, Info Type, Secondary Info Type, and Full Date, each with a '0 Selected' dropdown), a 'Search' text input, 'Info Type Group' and 'Secondary Info Type Group' (both with '0 Selected' dropdowns), and a 'Spatial filter' section. The 'Spatial filter' section includes a 'Choose the filter type' dropdown currently set to 'Current map extent'. At the bottom of the sidebar are 'Apply' and 'Reset' buttons.

Attribute criteria are limited to specific values in the data when a dropdown is present

Some fields are queryable via free form text or number ranges

Spatial filters can be applied to limit the queryable extent

This close-up shows the 'Spatial filter' dropdown menu. The 'Choose the filter type' dropdown is open, displaying two options: 'Current map extent' (marked with a checkmark) and 'Drawn graphic'.

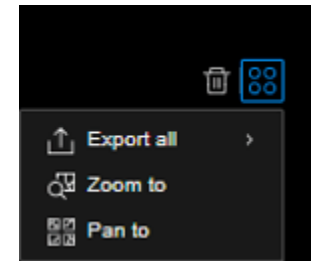
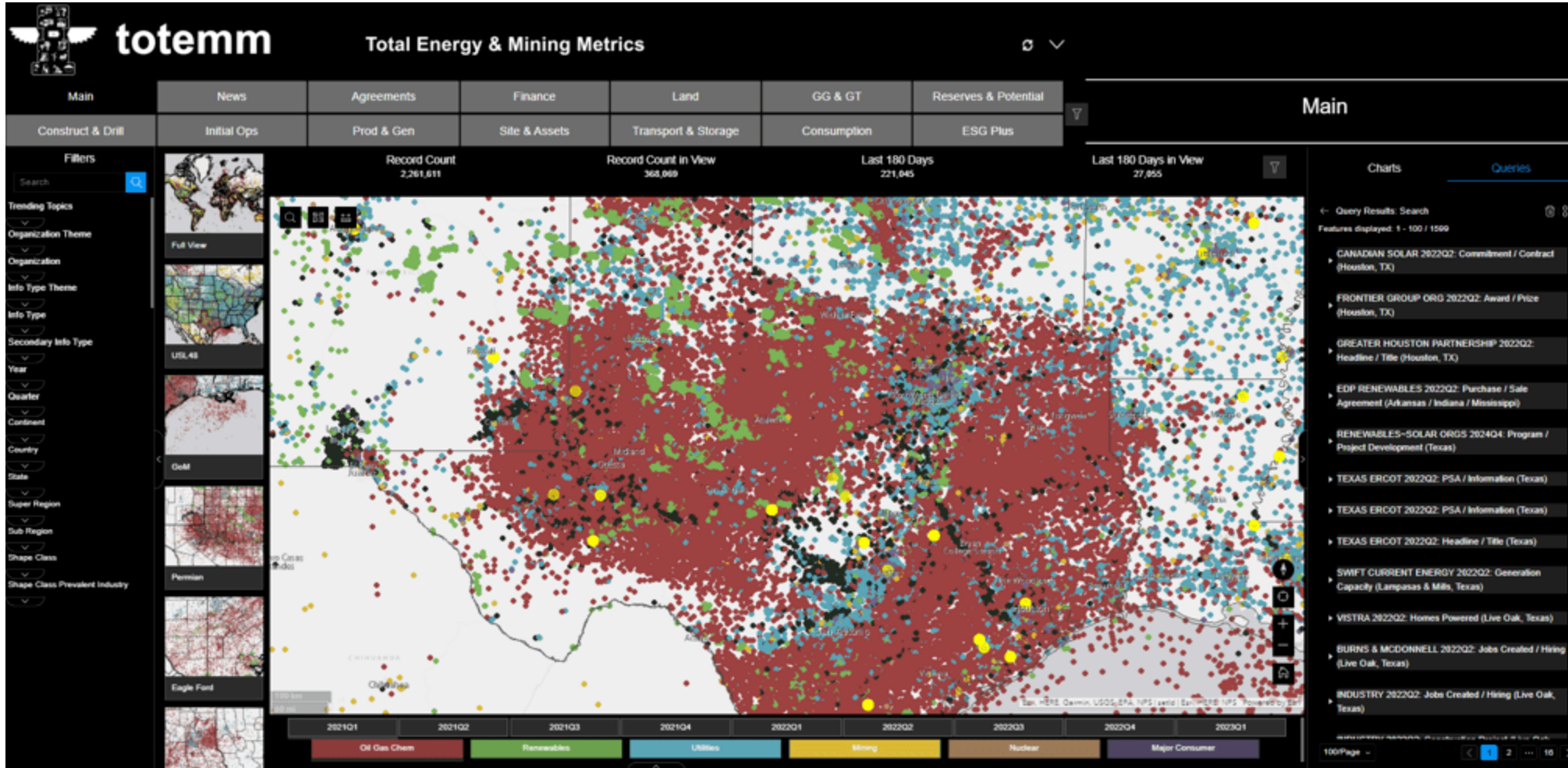
This close-up shows the configuration options for the 'Drawn graphic' spatial filter. It includes a 'Choose the filter type' dropdown set to 'Drawn graphic', a 'Clear the graphic when applying' checkbox, and a 'Buffer distance' section with a numeric input set to '5' and a unit dropdown set to 'Miles'.

Pressing Apply runs the query to return results

# TOTEMM Web Mapping Experience – Working with Query Results

Query results will be highlighted on the map

Clicking on a result will zoom to that feature



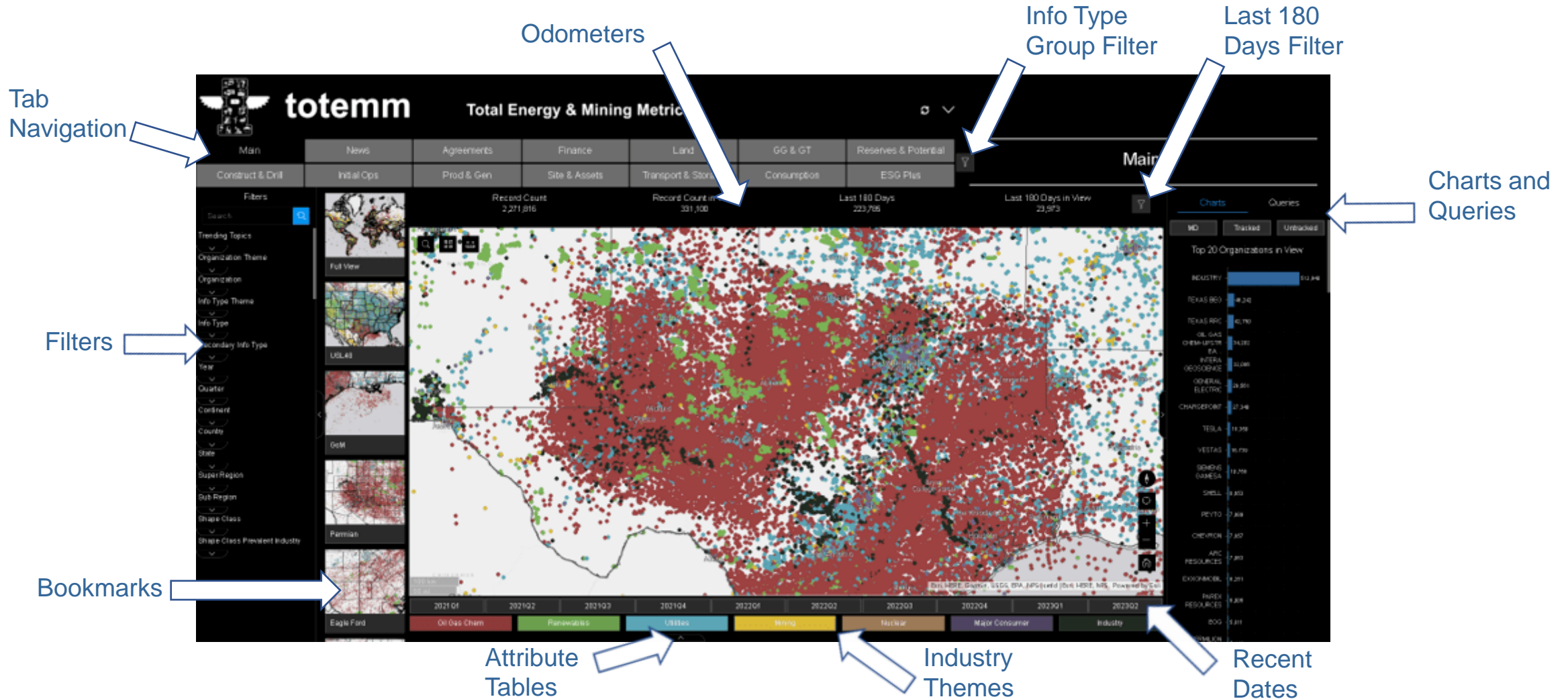
Pressing the Action button will bring up an options menu



# TOTEMM Web Mapping Experience – Main

## Purpose

General tab including all records to provide users with an overall understanding of basic data clusters and use cases to be expanded on in the coming tabs



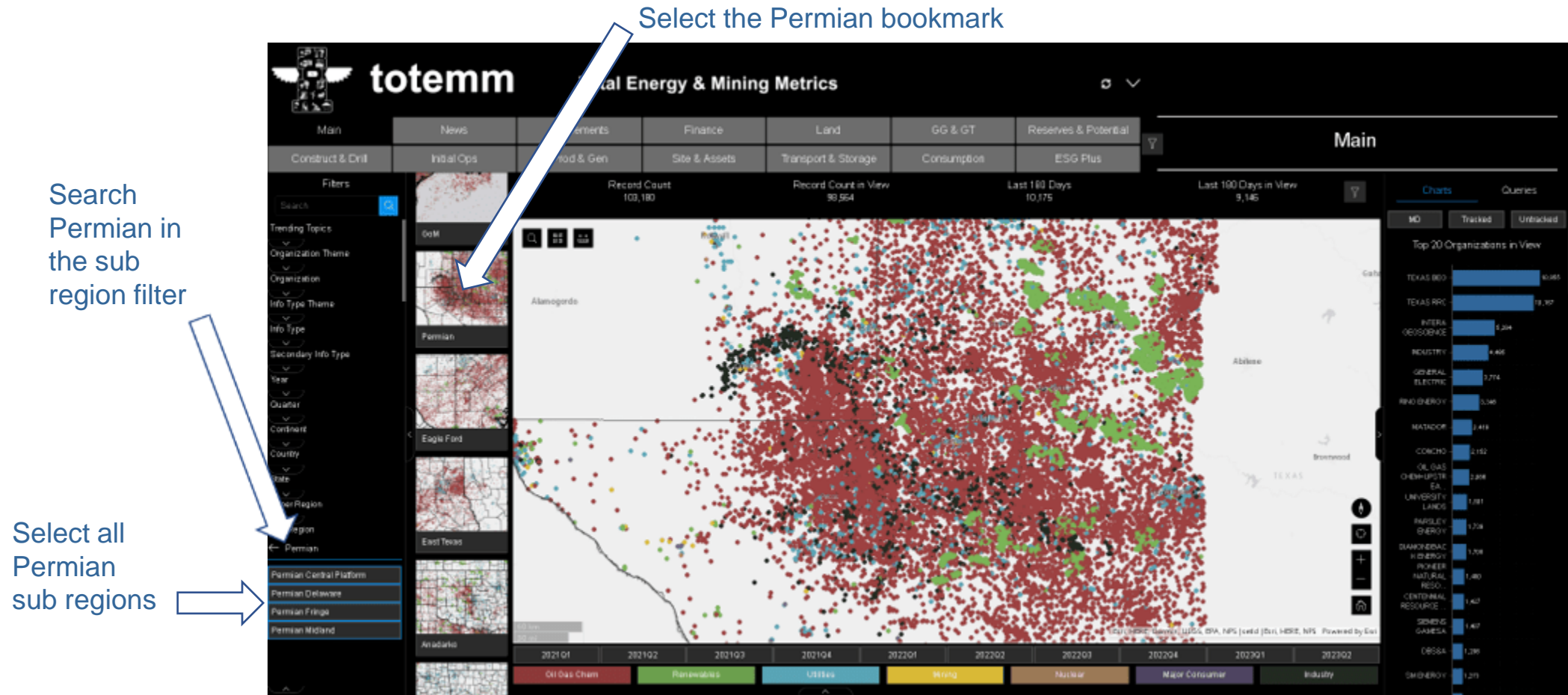
## User Stories

1. How many records do we have for Shell?
2. How many renewables records do we have for Shell?
3. What kind of agreements has Shell made recently?
4. **What organizations have interest in the Permian?**
5. Who has interest in electric vehicles and where?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

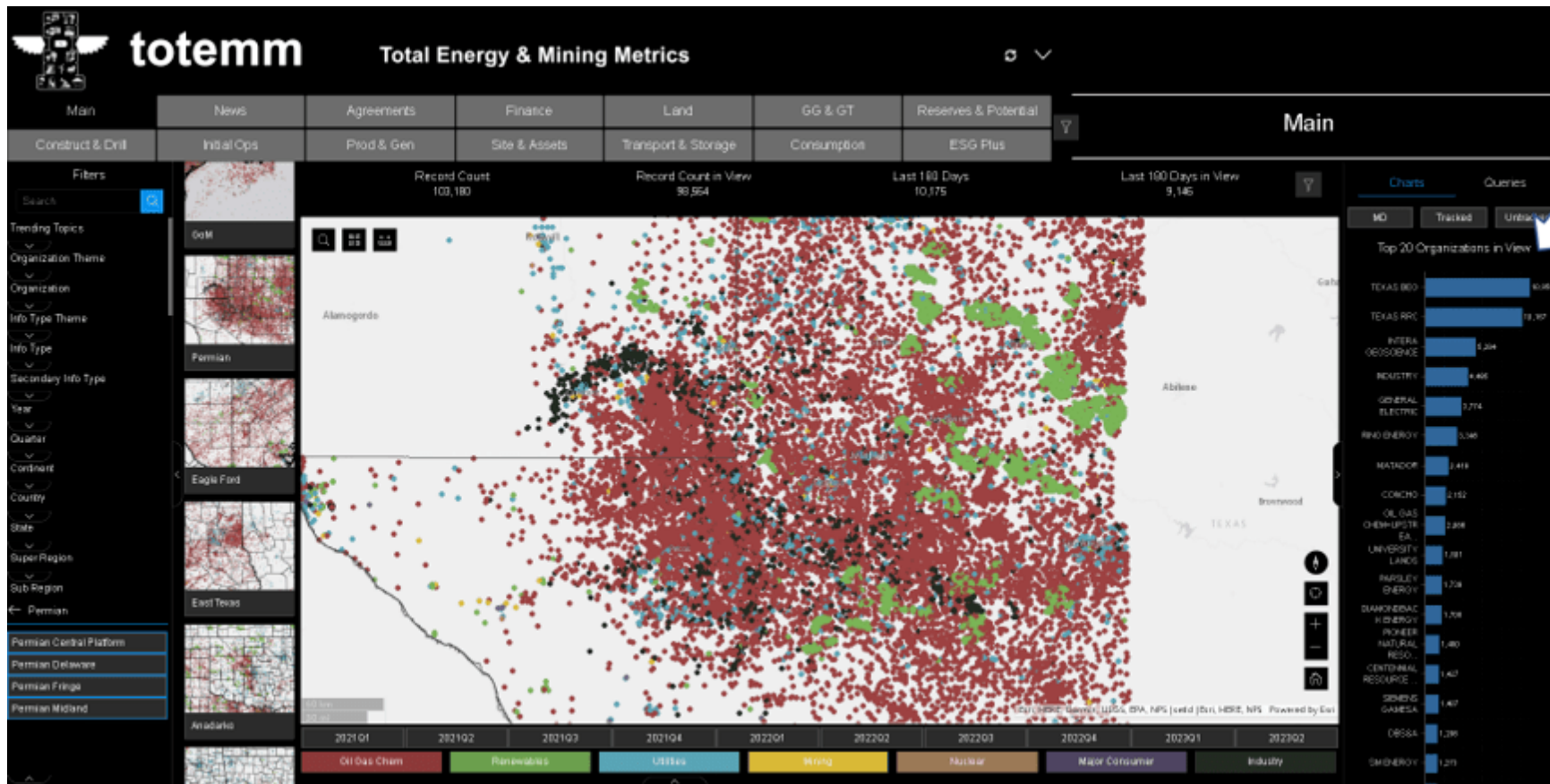
# TOTEMM Web Mapping Experience – Main

What organizations have interest in the Permian?



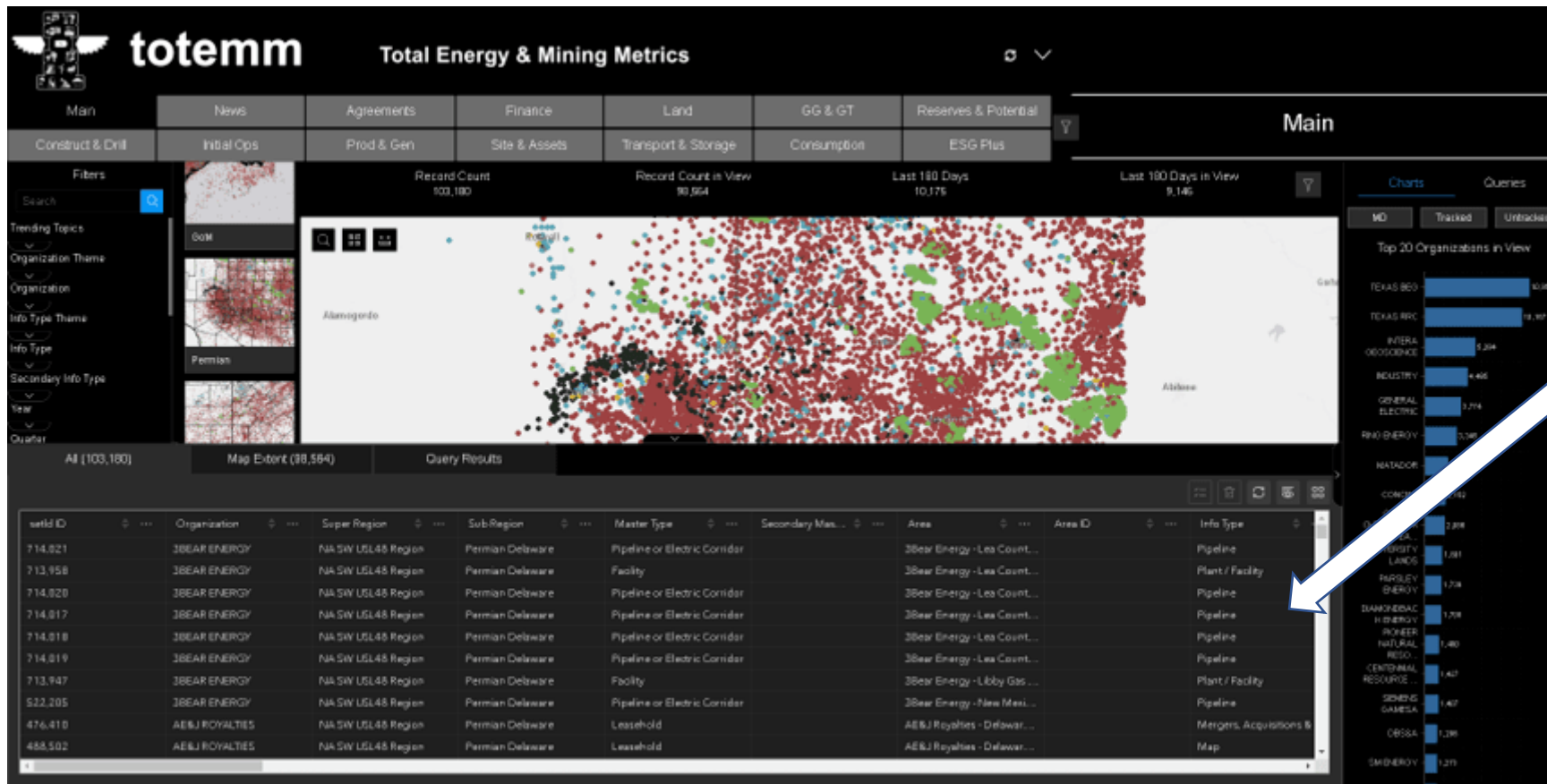
# TOTEMM Web Mapping Experience – Main

Review the top 20 organizations chart





# TOTEMM Web Mapping Experience – Main

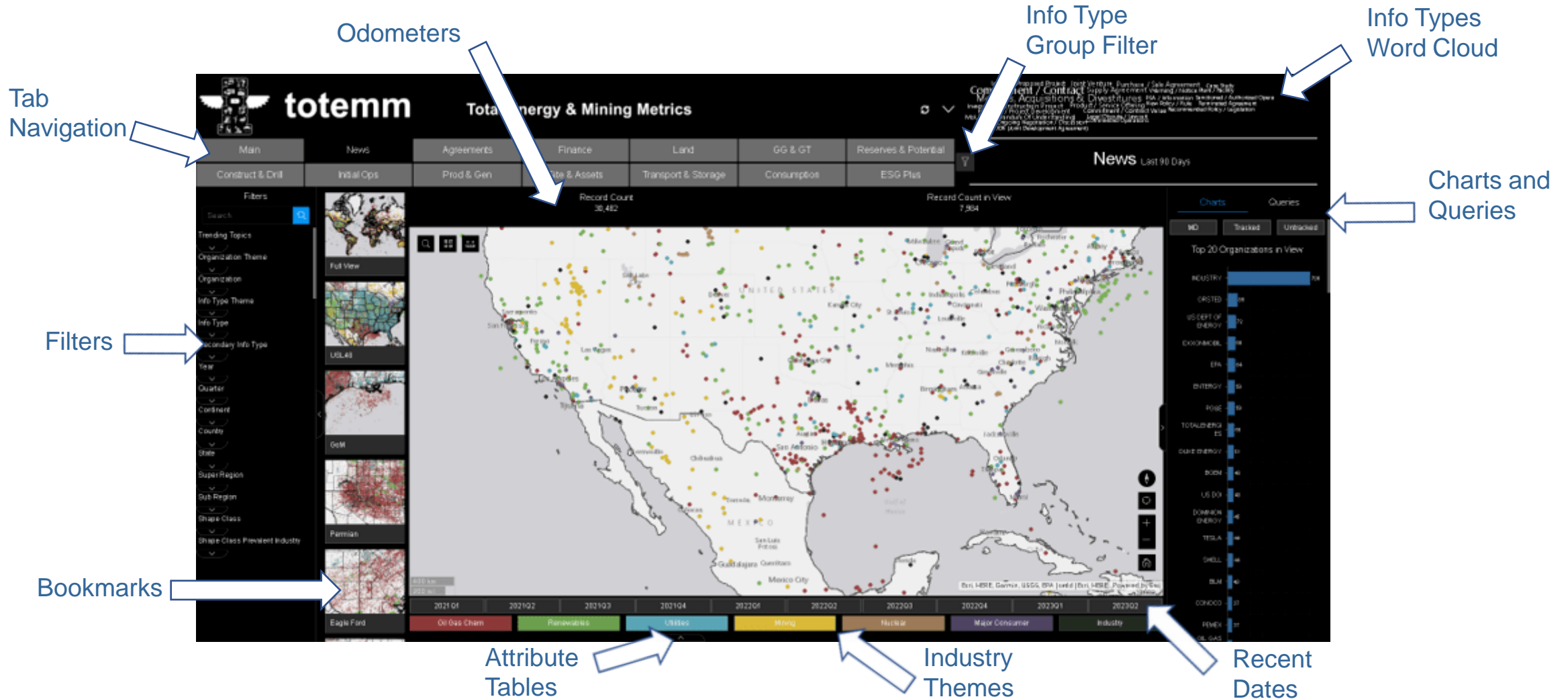


Review the attribute table to see more organizations

# TOTEMM Web Mapping Experience – News

## Purpose

News interpreted within the last 90 days, expressed using spatial context of event details consolidated by area and organization



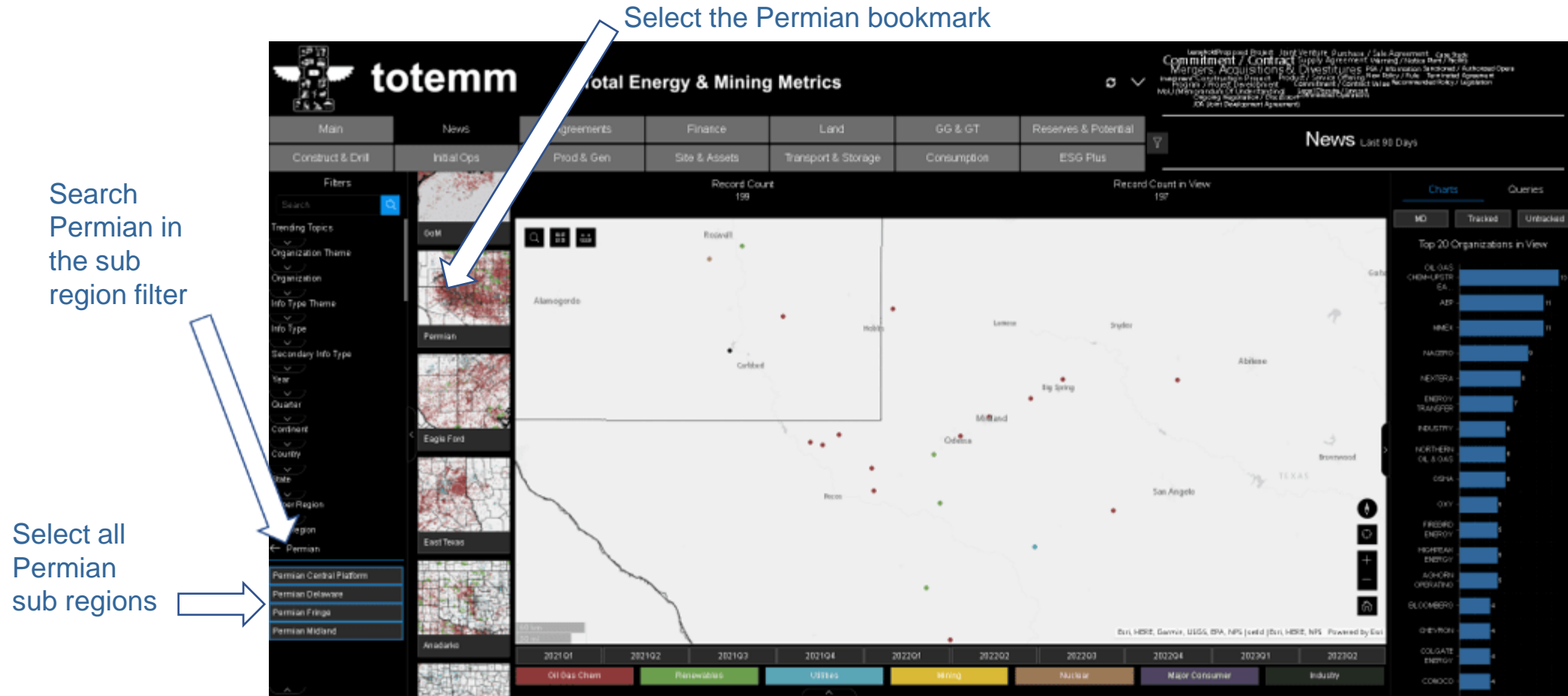
## User Stories

1. What has Shell been doing in the last 90 days?
2. What recent oil & gas ESG events occurred in West Africa?
3. **What recent mergers, acquisitions & divestitures events occurred in the Permian?**
4. Where are recent construct & drill project locations?
5. What recent records involve hydrogen?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

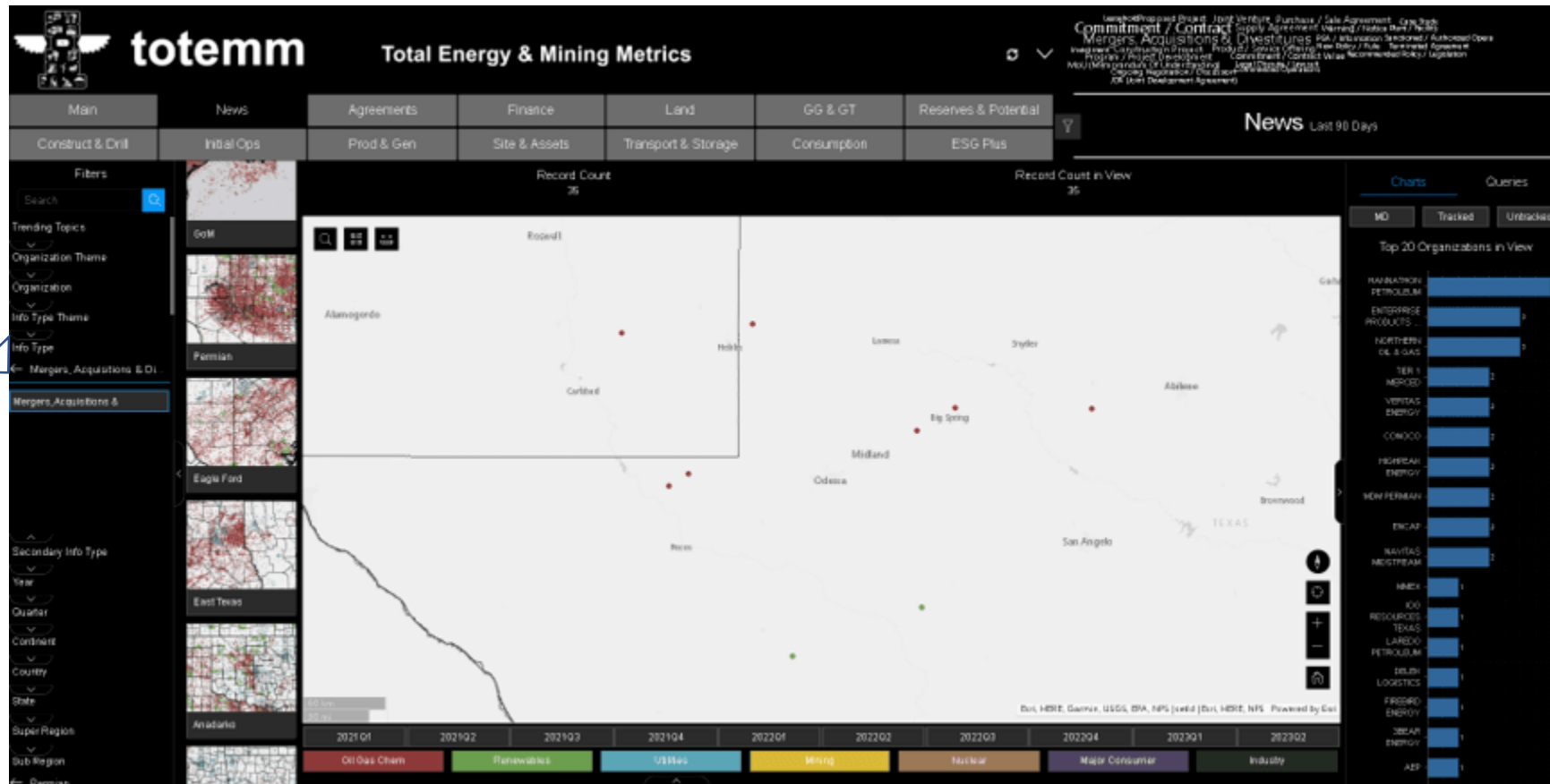
# TOTEMM Web Mapping Experience – News

What recent mergers, acquisitions & divestitures events occurred in the Permian?

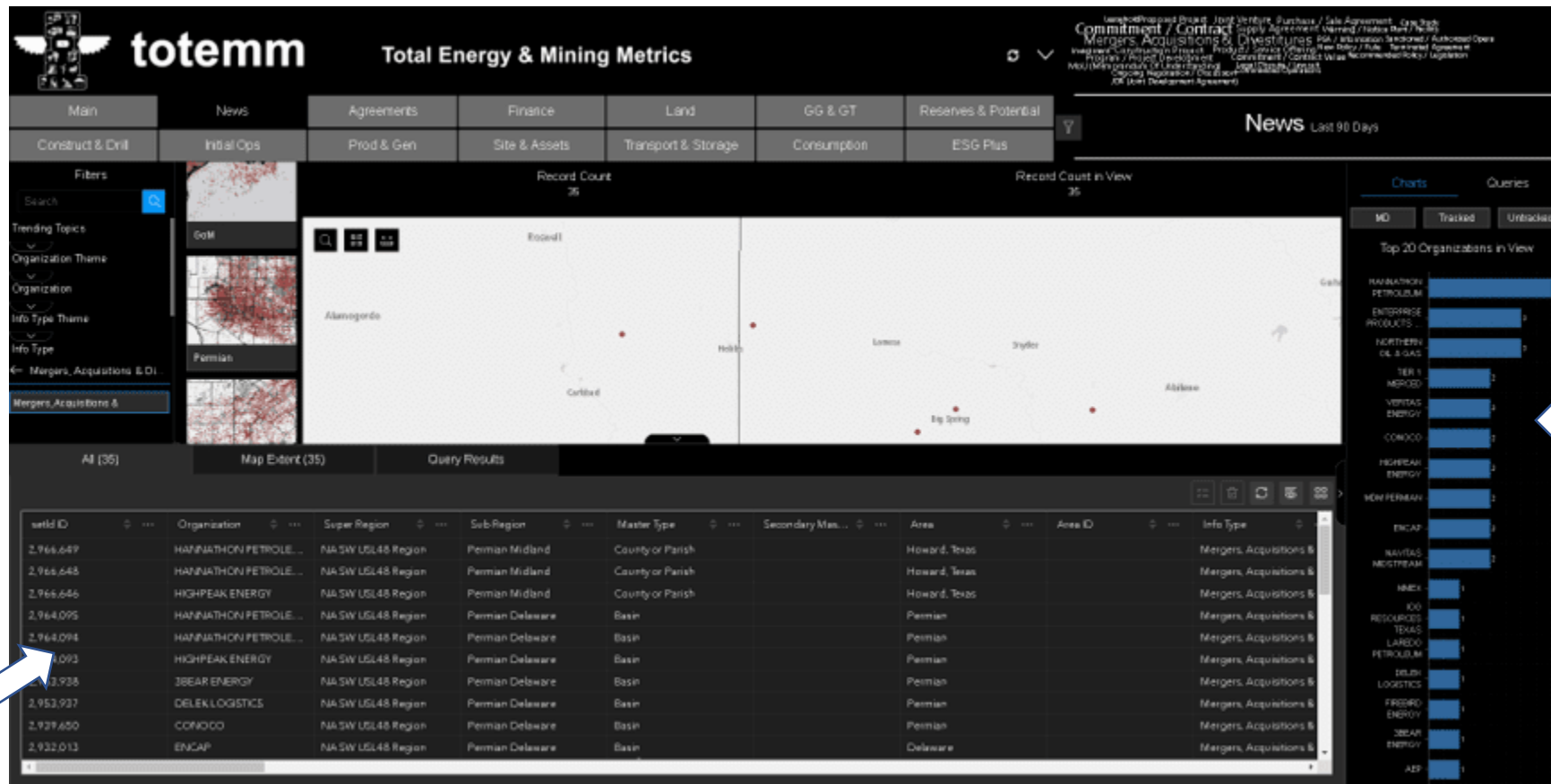


# TOTEMM Web Mapping Experience – Main

Search and select  
mergers, acquisitions  
& divestitures in the  
info type filter



# TOTEMM Web Mapping Experience – Main



Review the attribute table

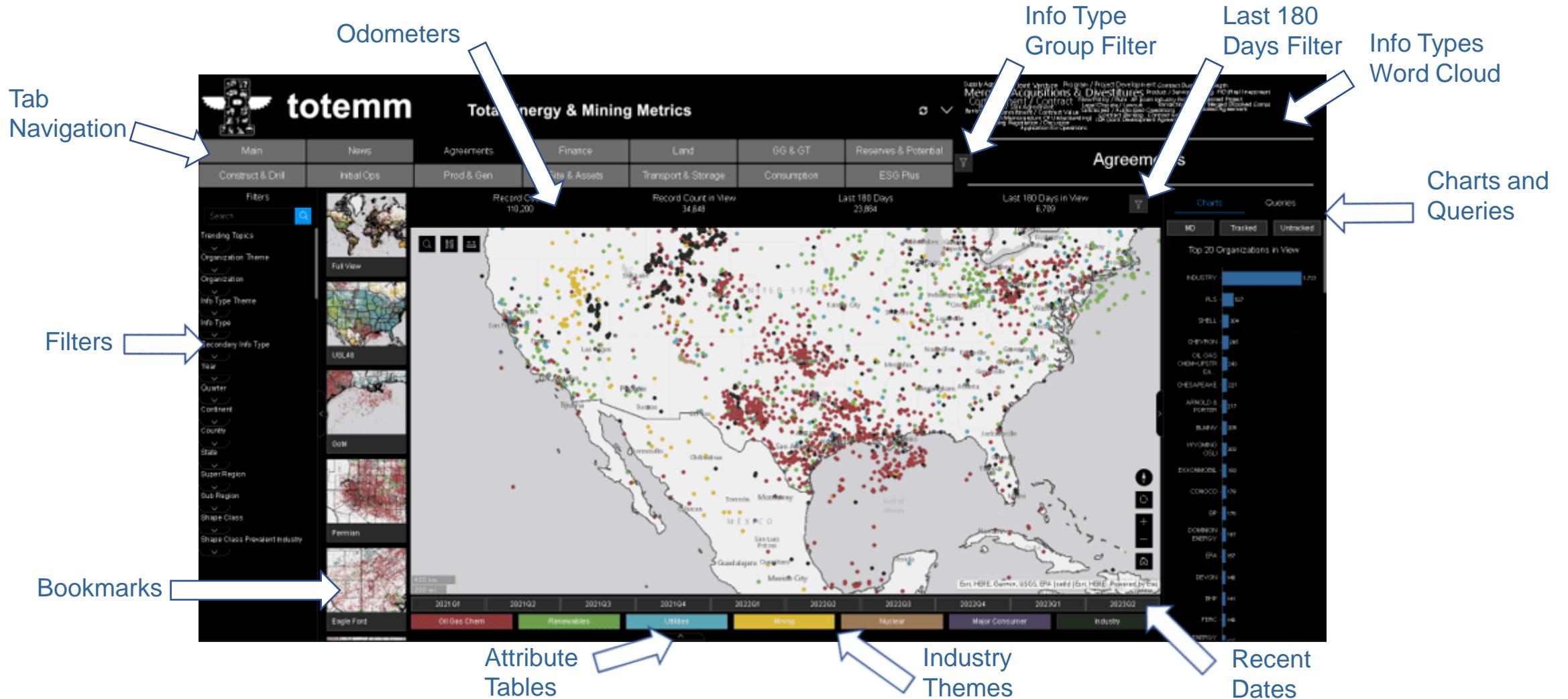
Review the charts



# TOTEMM Web Mapping Experience – Agreements

## Purpose

Displays information about contracts, asset transfers, collaborations, legal statuses and policies being made by organizations and governments



## User Stories

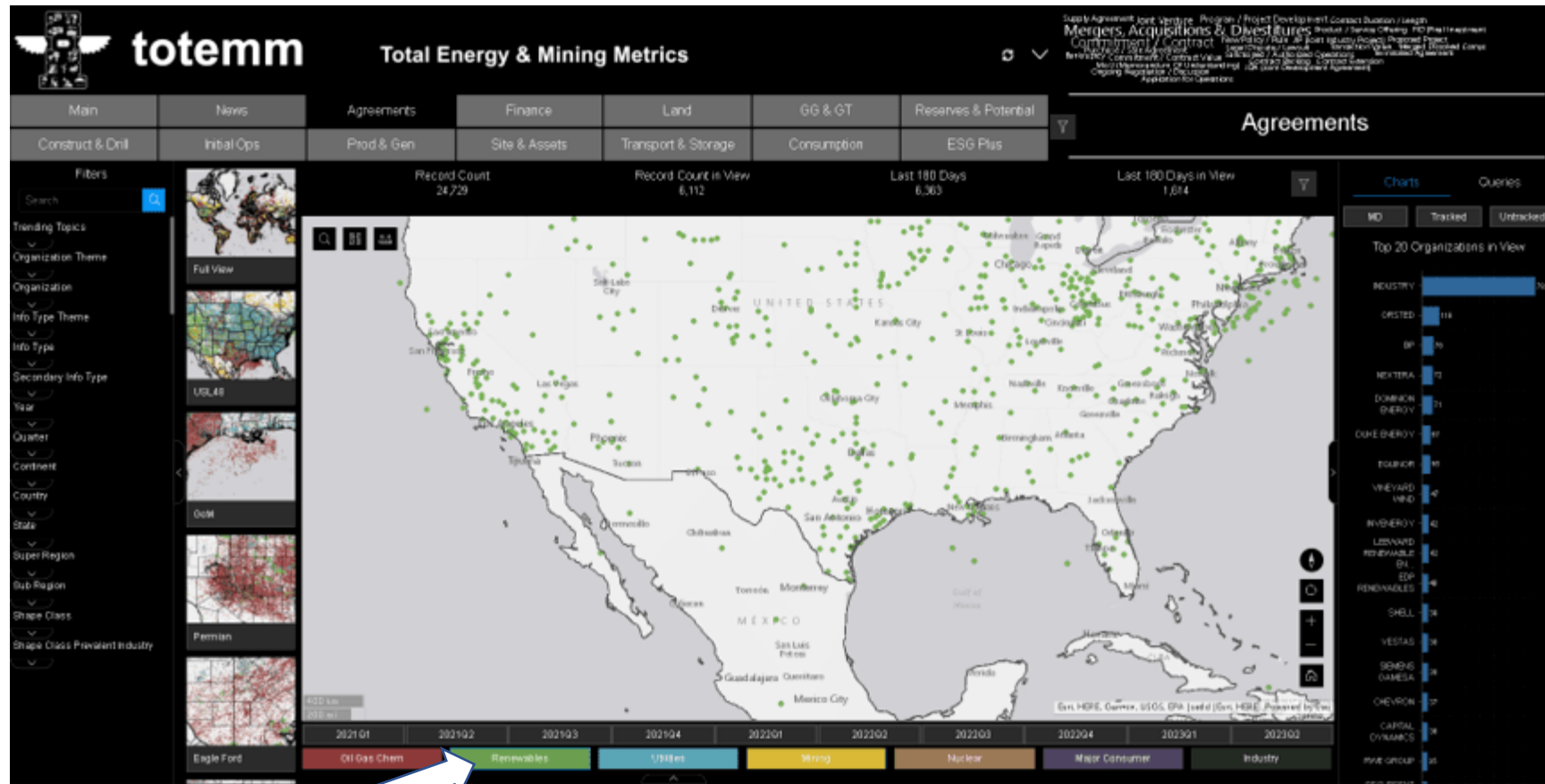
1. **In the United States, what renewables agreements have been made in the last 180 days?**
2. What types of JVs have people been working under recently and where?
3. What nuclear policies or rules were recently put in place in Germany?
4. In 2021, what projects or operations events occurred in the North Sea?
5. In 2021, what commitments / contracts were made by or with Shell?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases



# TOTEMM Web Mapping Experience – Agreements

In the United States, what renewables agreements have been made in the last 180 days?

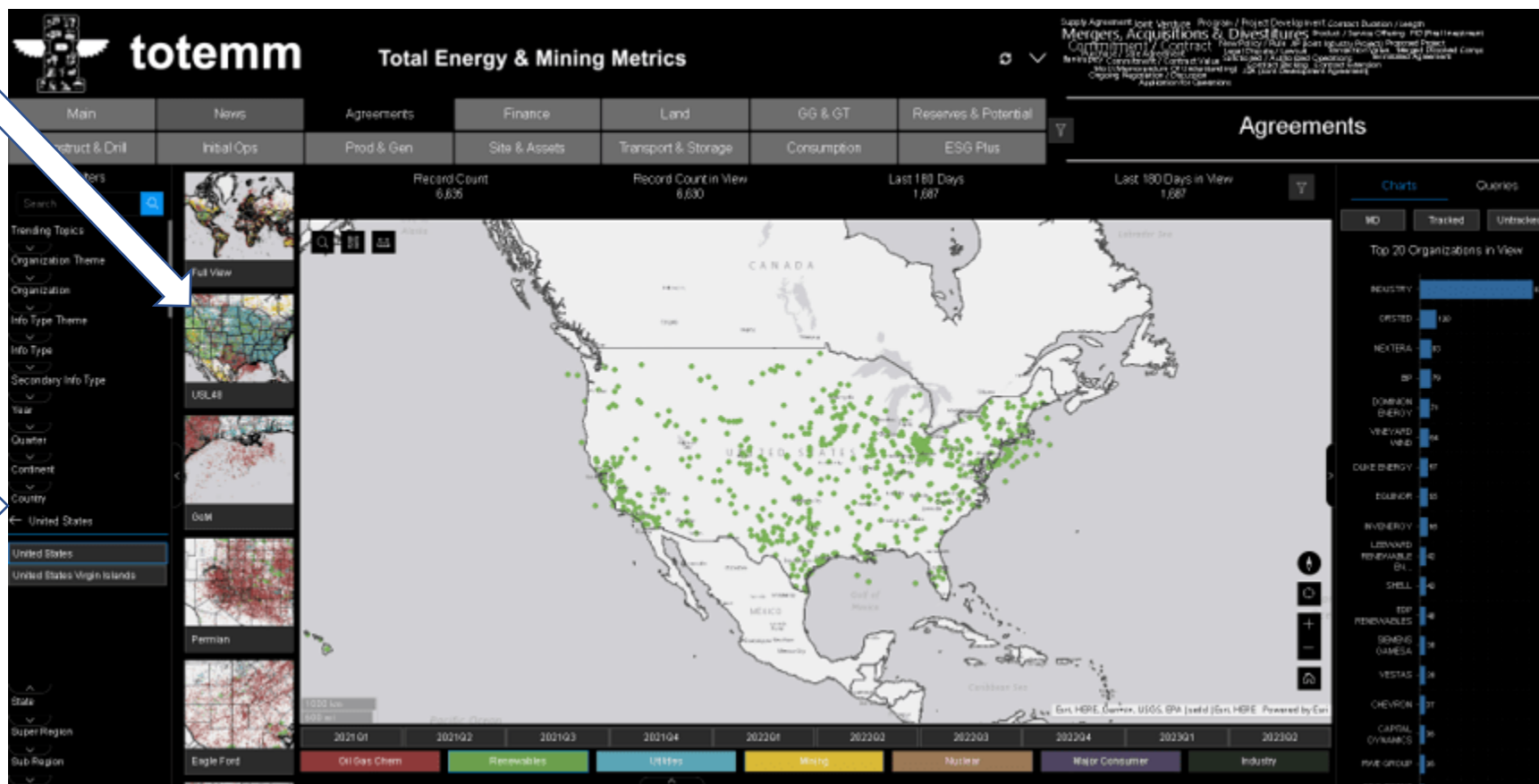


Click the renewables industry theme button

# TOTEMM Web Mapping Experience – Agreements

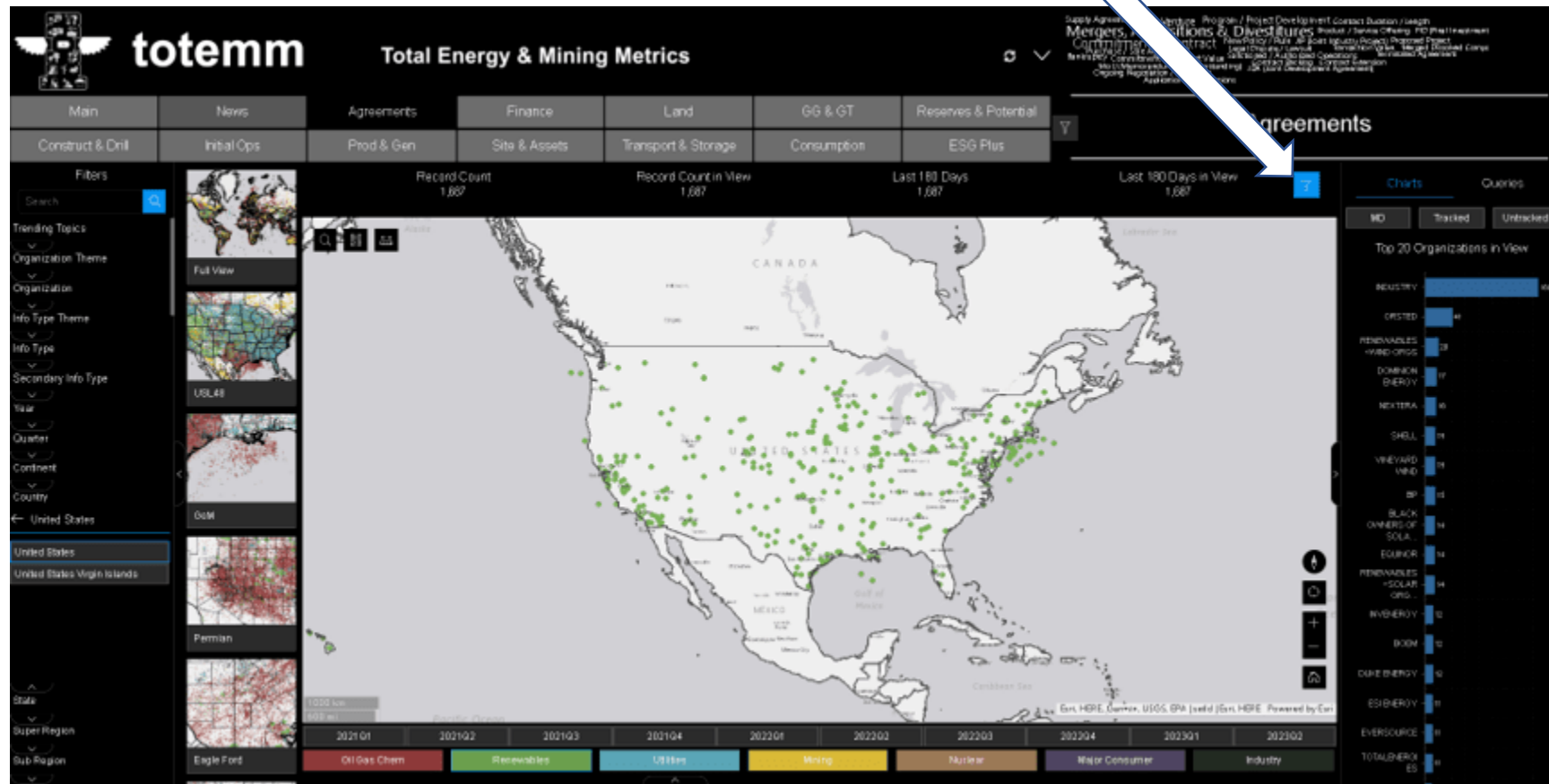
Select the USL48 bookmark

Search and select United States from the country filter

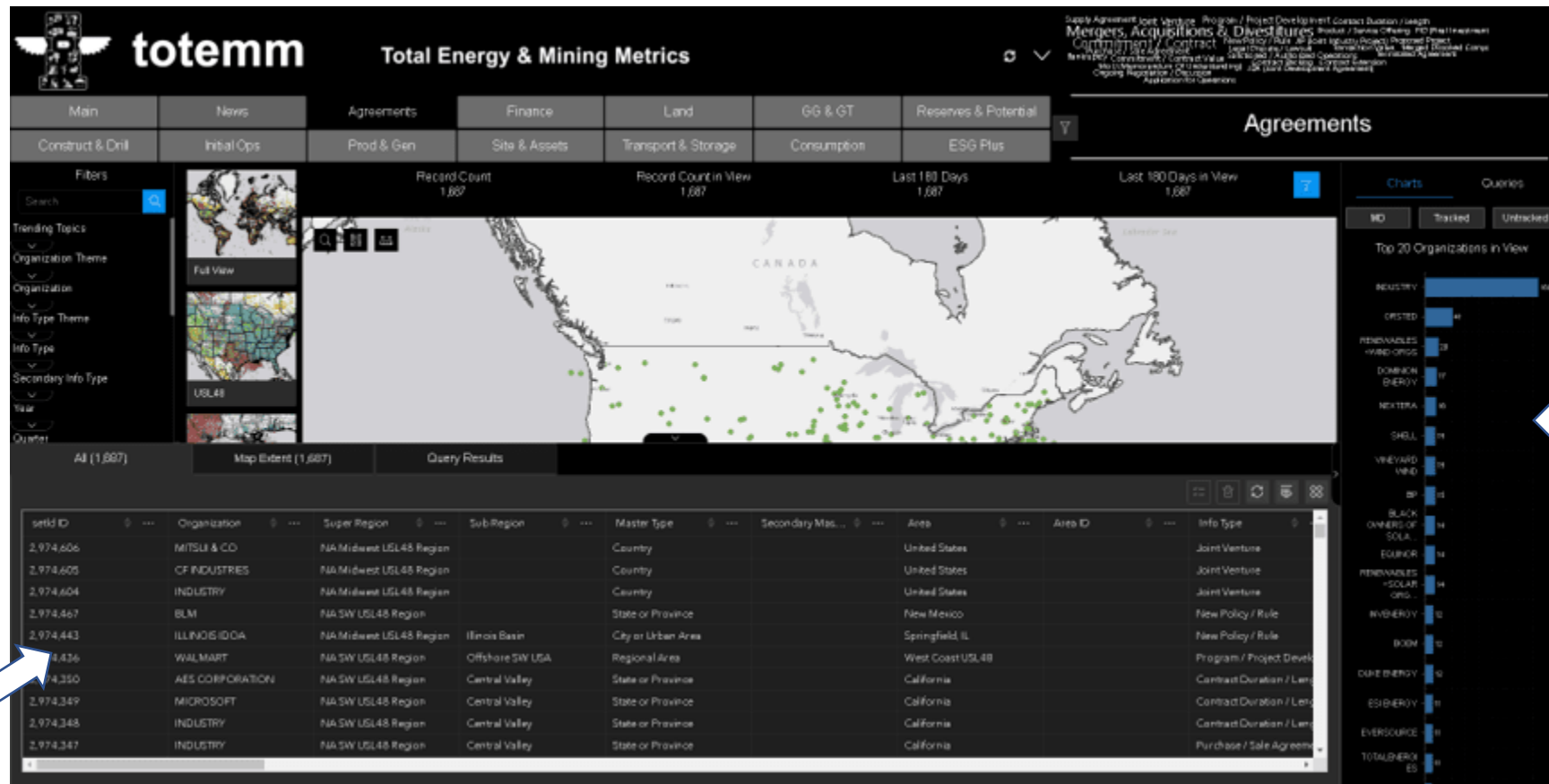


# TOTEMM Web Mapping Experience – Agreements

Click the last 180 days in view filter



# TOTEMM Web Mapping Experience – Agreements



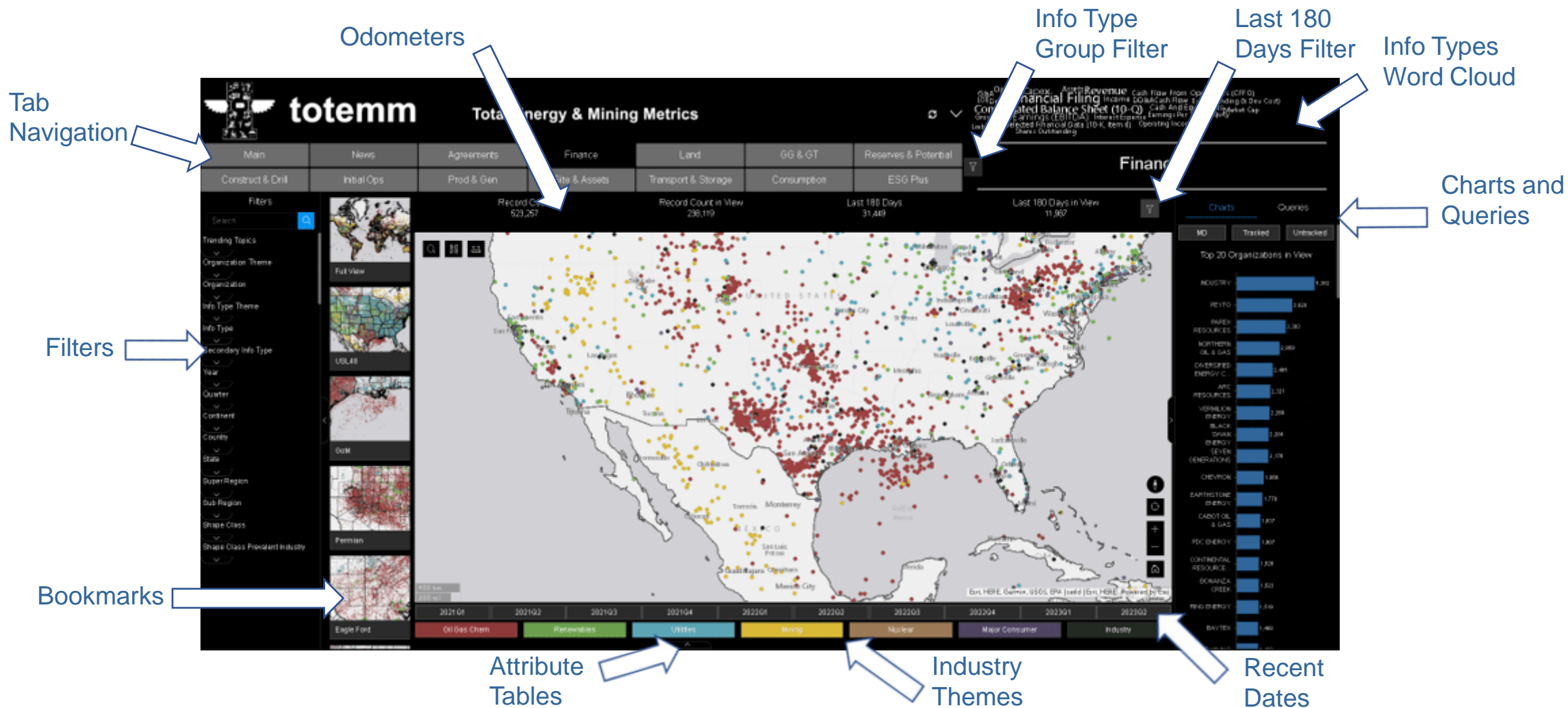
Review the  
attribute table

Review the  
charts

# TOTEMM Web Mapping Experience – Finance

## Purpose

Review the size of an organization, financial filings, investments, returns and general financial health



## User Stories

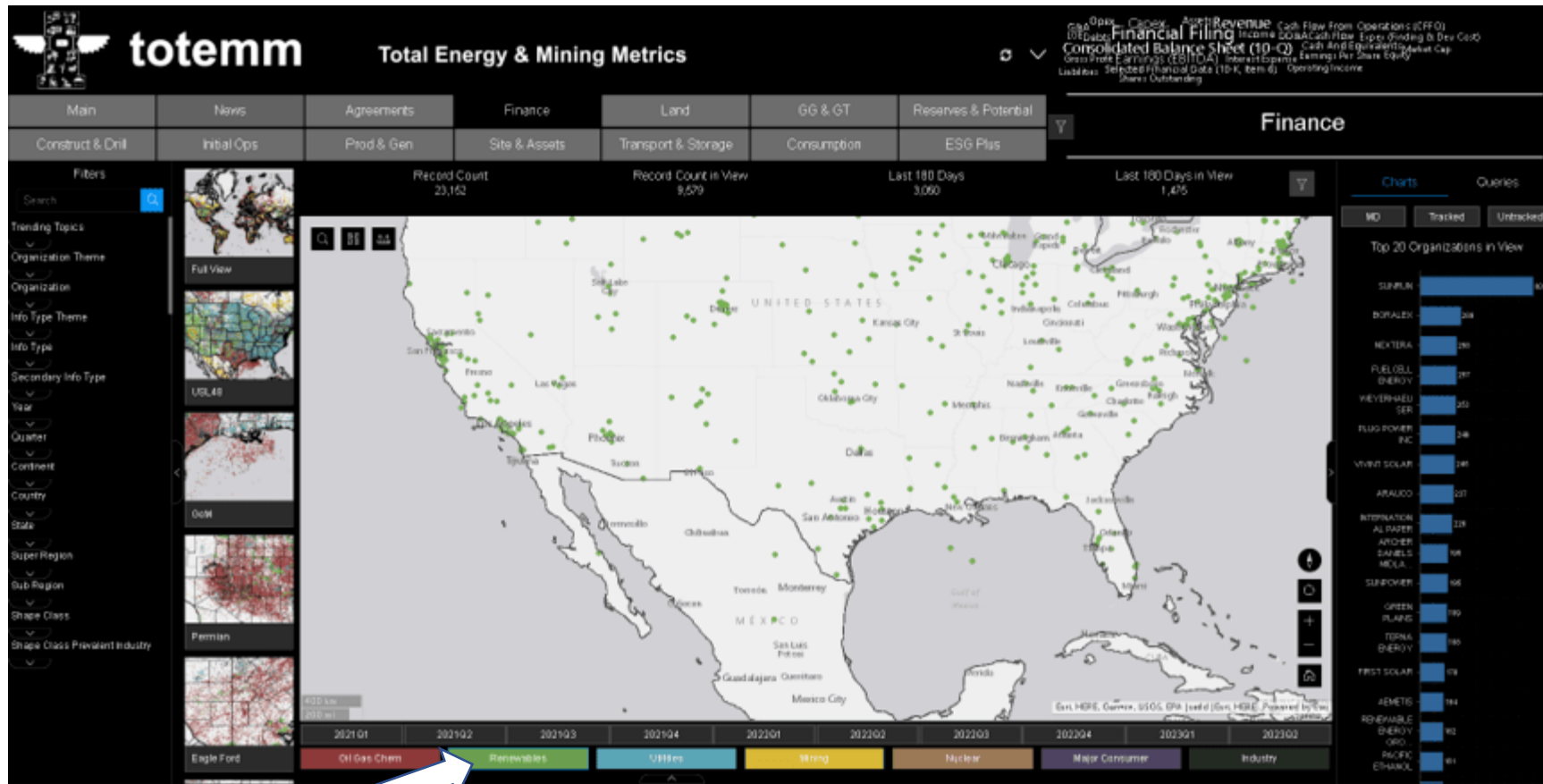
1. What are Diamondback Energy's recent capex and opex numbers in the Permian?
2. Who is spending the most on renewables and what type?
3. **Where are new renewables projects being funded in the United States?**
4. What were the investments or financial filings for Chevron in 2021?
5. What organizations are in financial trouble and what records do we have for them?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases



# TOTEMM Web Mapping Experience – Finance

What organizations in the United States are funding renewables and how much?

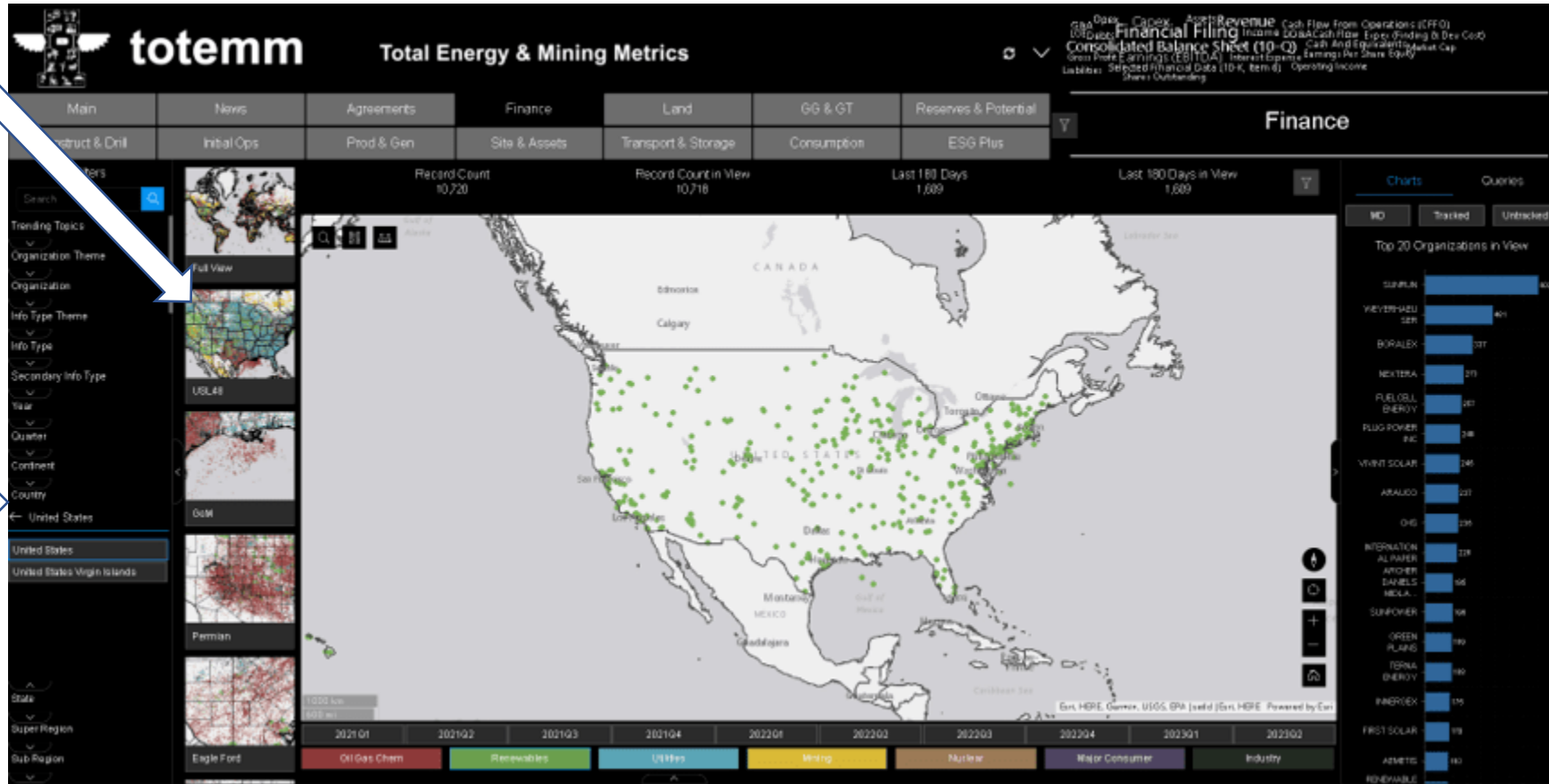


Click the renewables industry theme button

# TOTEMM Web Mapping Experience – Finance

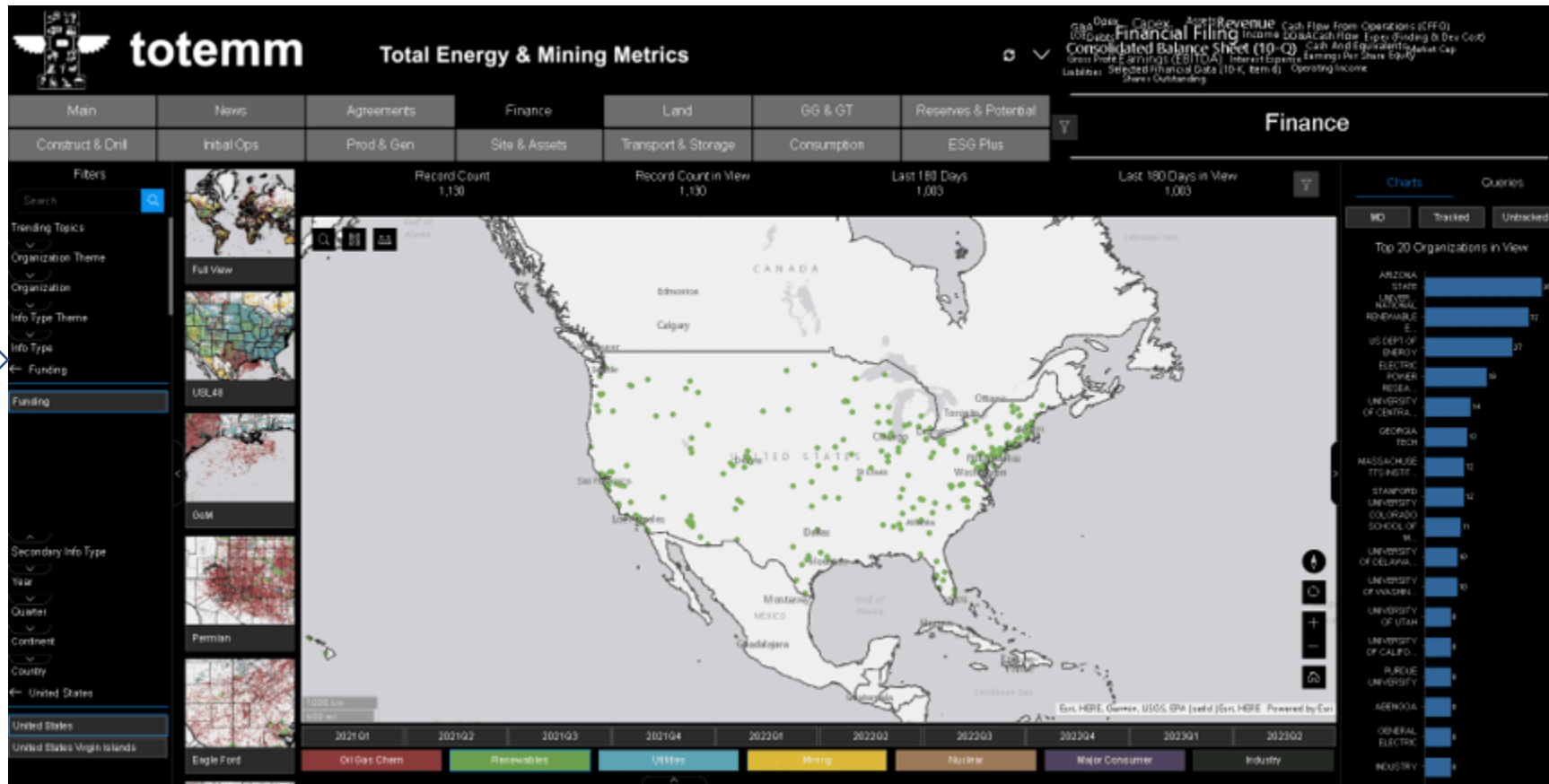
Select the USL48 bookmark

Search and select United States from the country filter



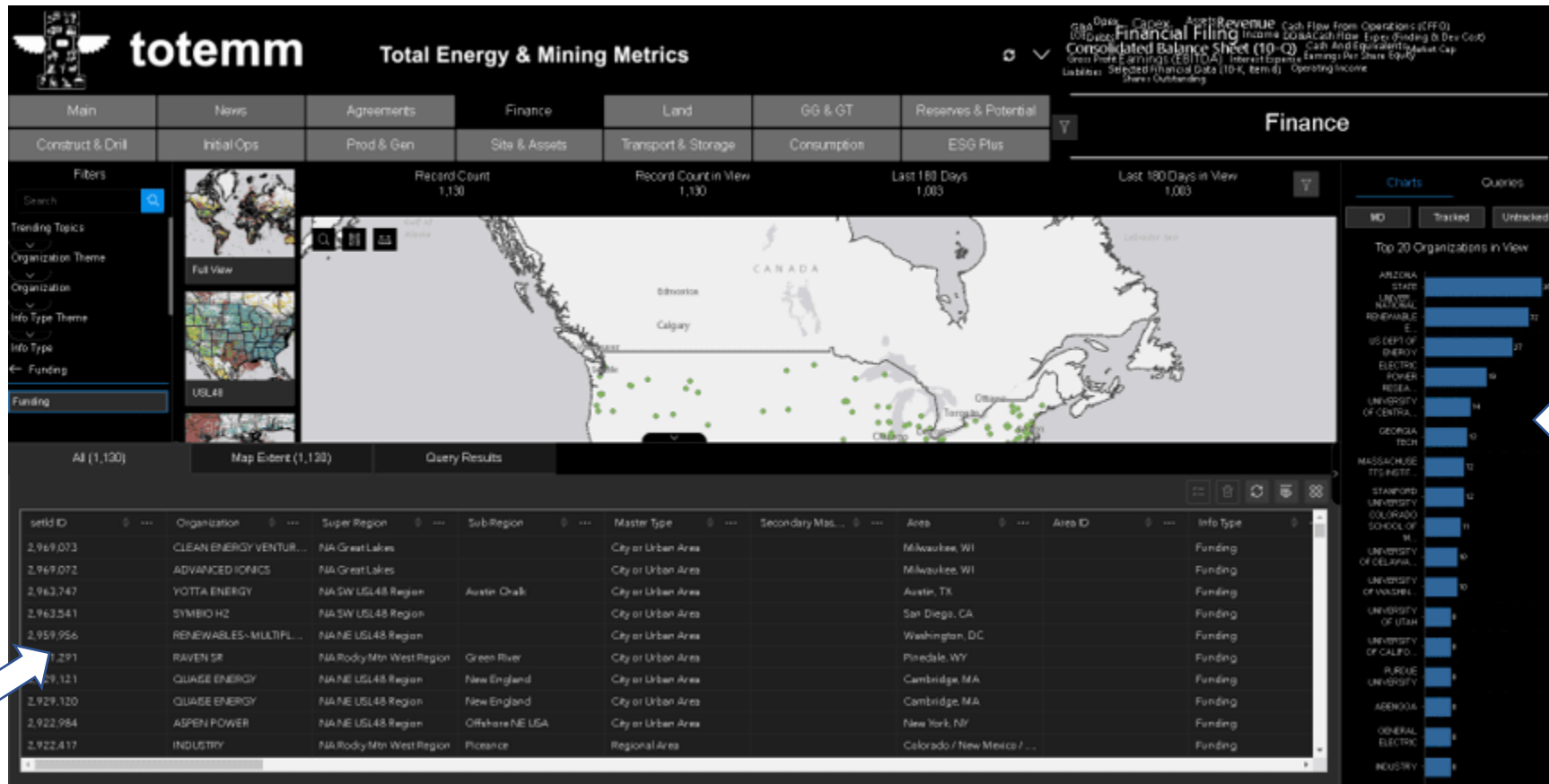


# TOTEMM Web Mapping Experience – Finance



Search and select funding in the info type filter

# TOTEMM Web Mapping Experience – Finance



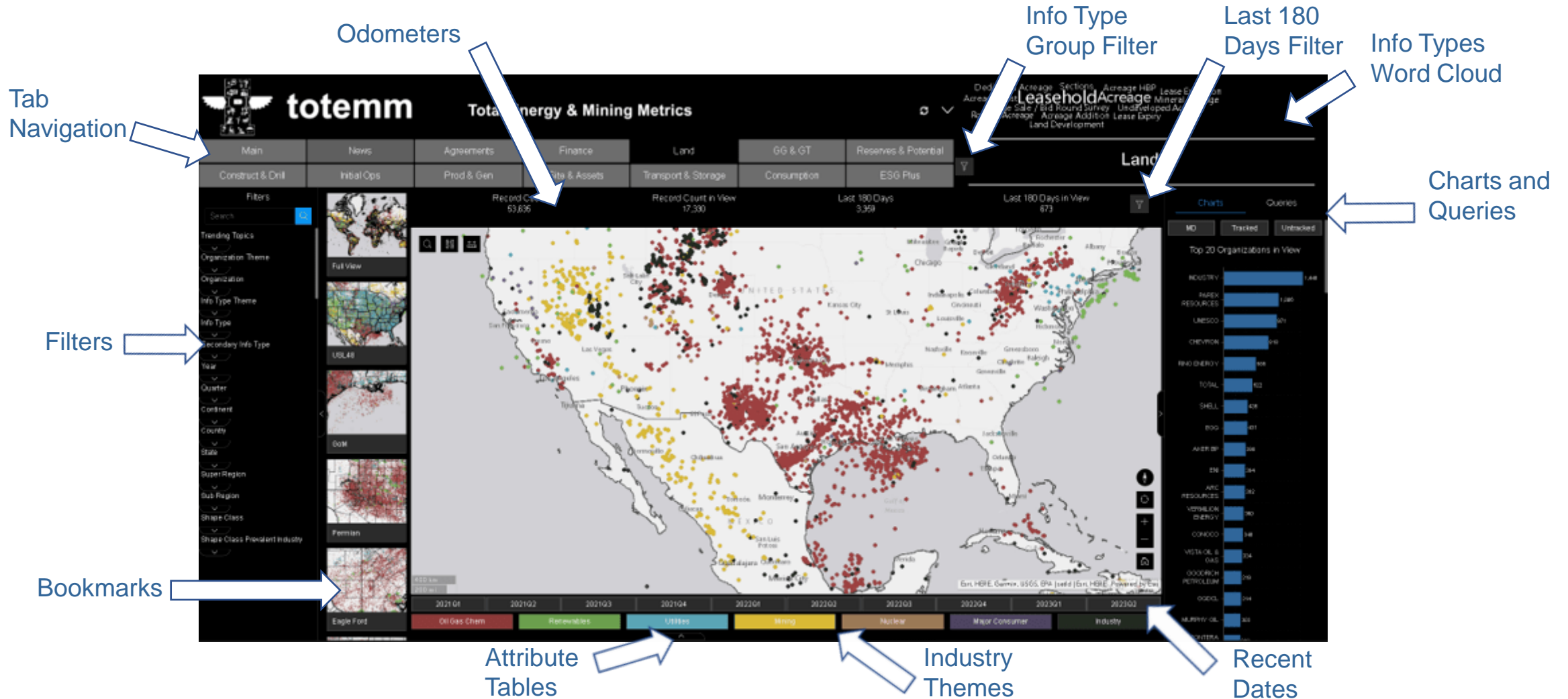
Review the attribute table

Review the charts

# TOTEMM Web Mapping Experience – Land

## Purpose

Displays information about acreage, acreage cost, NPV and working interests as it relates to land holdings



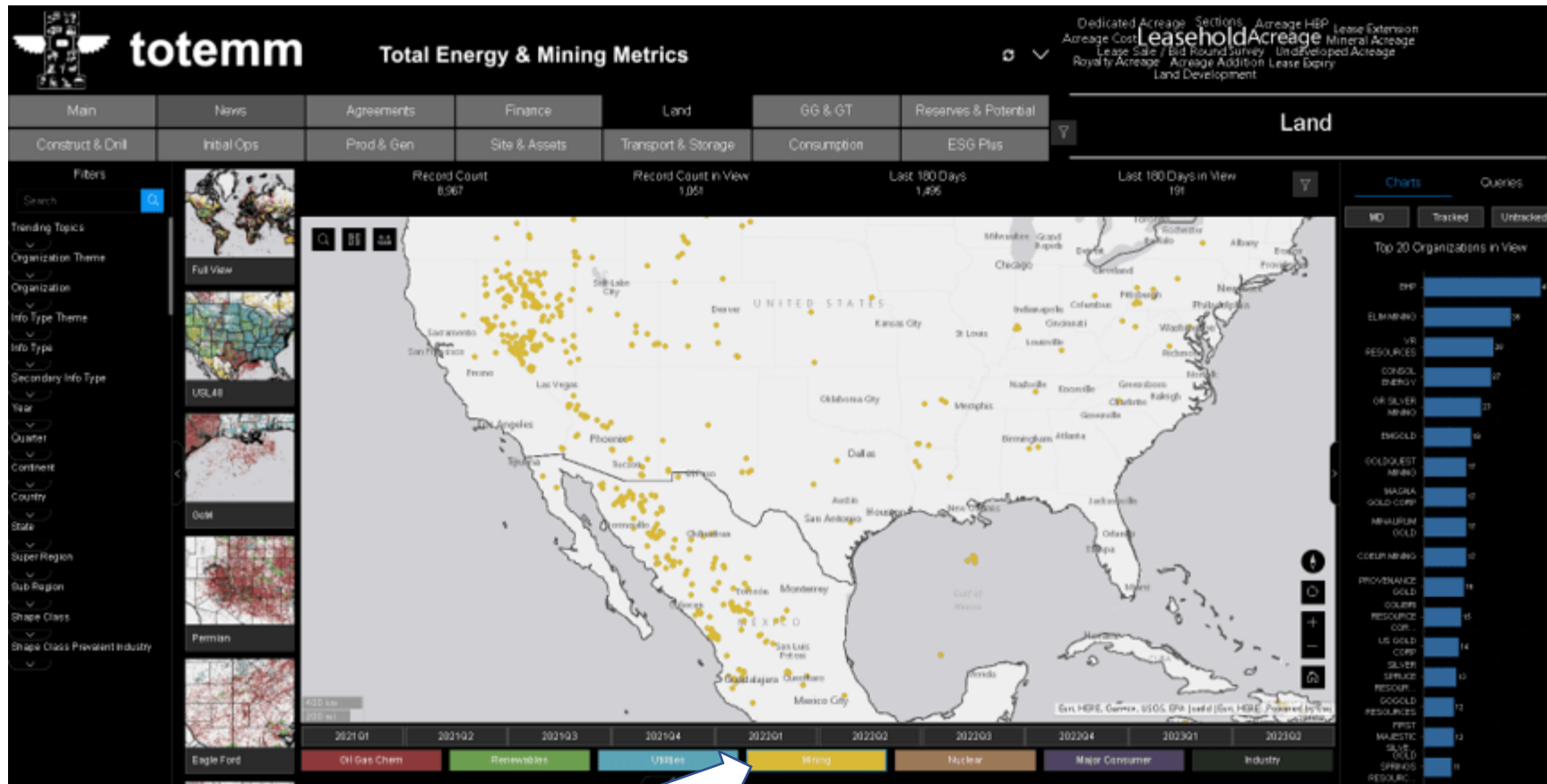
## User Stories

1. What are acreage costs in the Permian?
2. Who holds how much acreage in the Permian?
3. What leaseholds have reported present values?
4. **Where are mines in South America and what resources are they producing?**
5. How much reported acreage is dedicated to wind?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Web Mapping Experience – Land

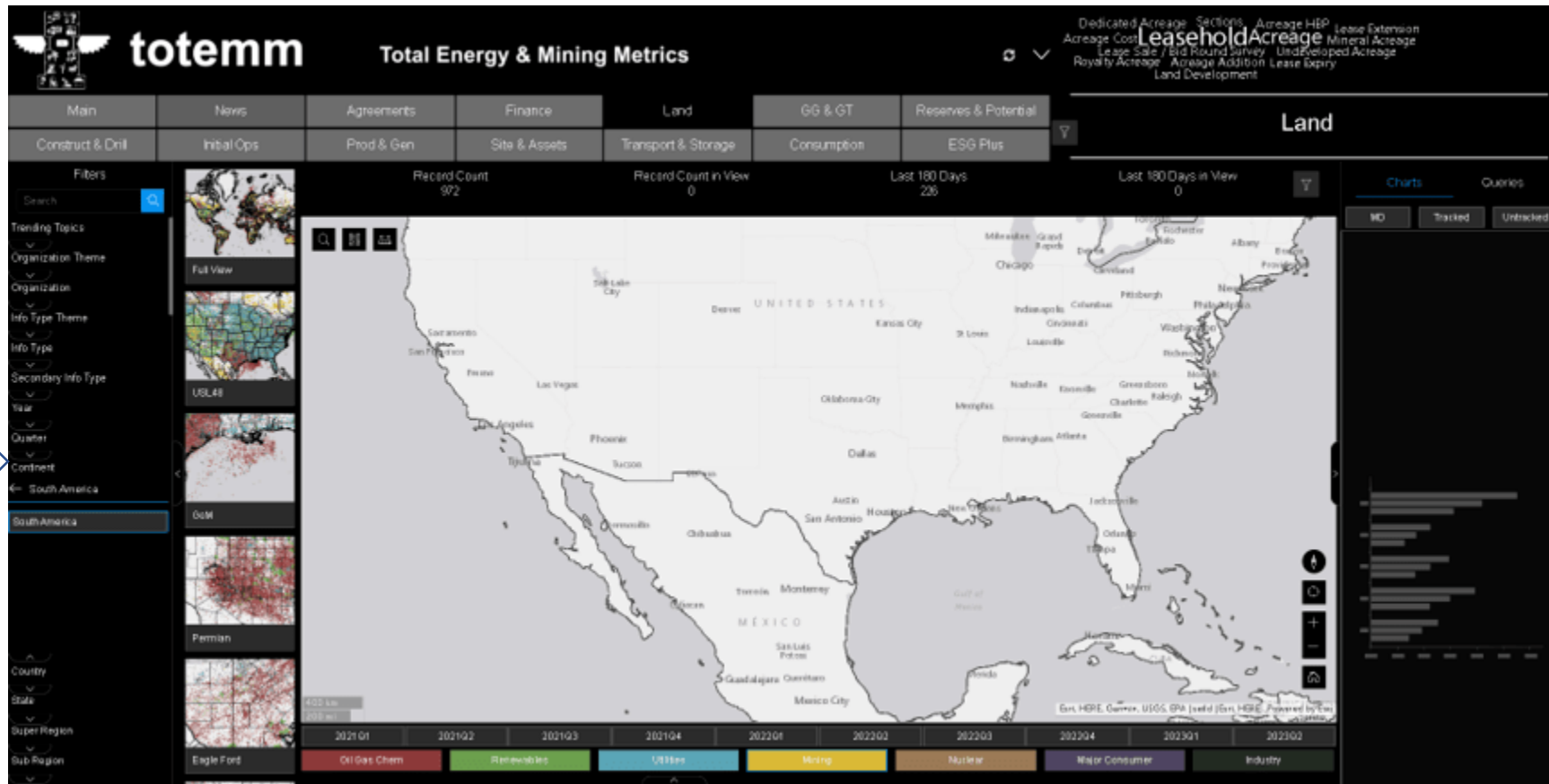
Where are mines in South America and what resources are they producing?



Click the mining industry theme button

# TOTEMM Web Mapping Experience – Land

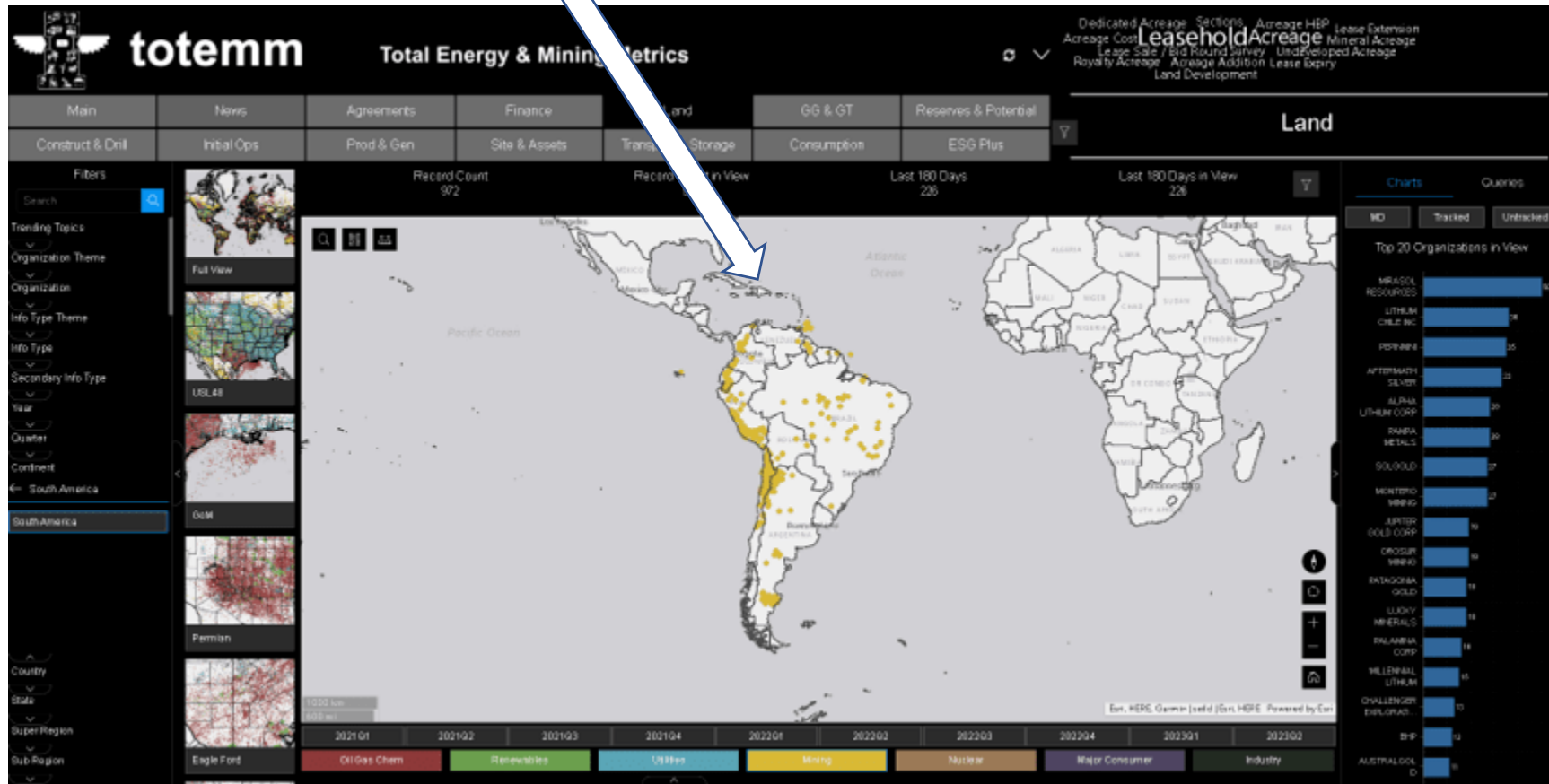
Search and select  
South America in  
the continent filter



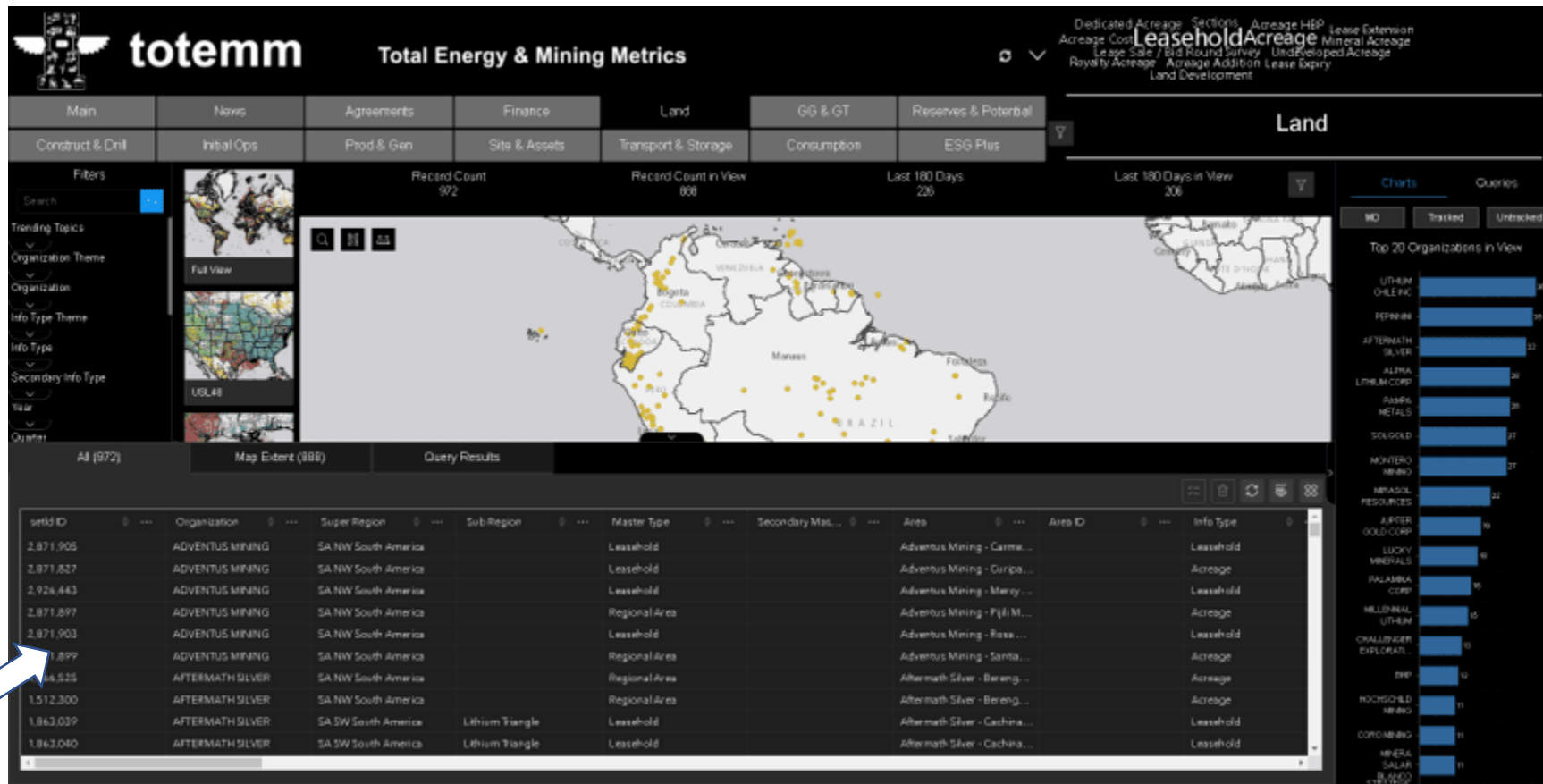


# TOTEMM Web Mapping Experience – Land

Pan the map to investigate clusters



# TOTEMM Web Mapping Experience – Land

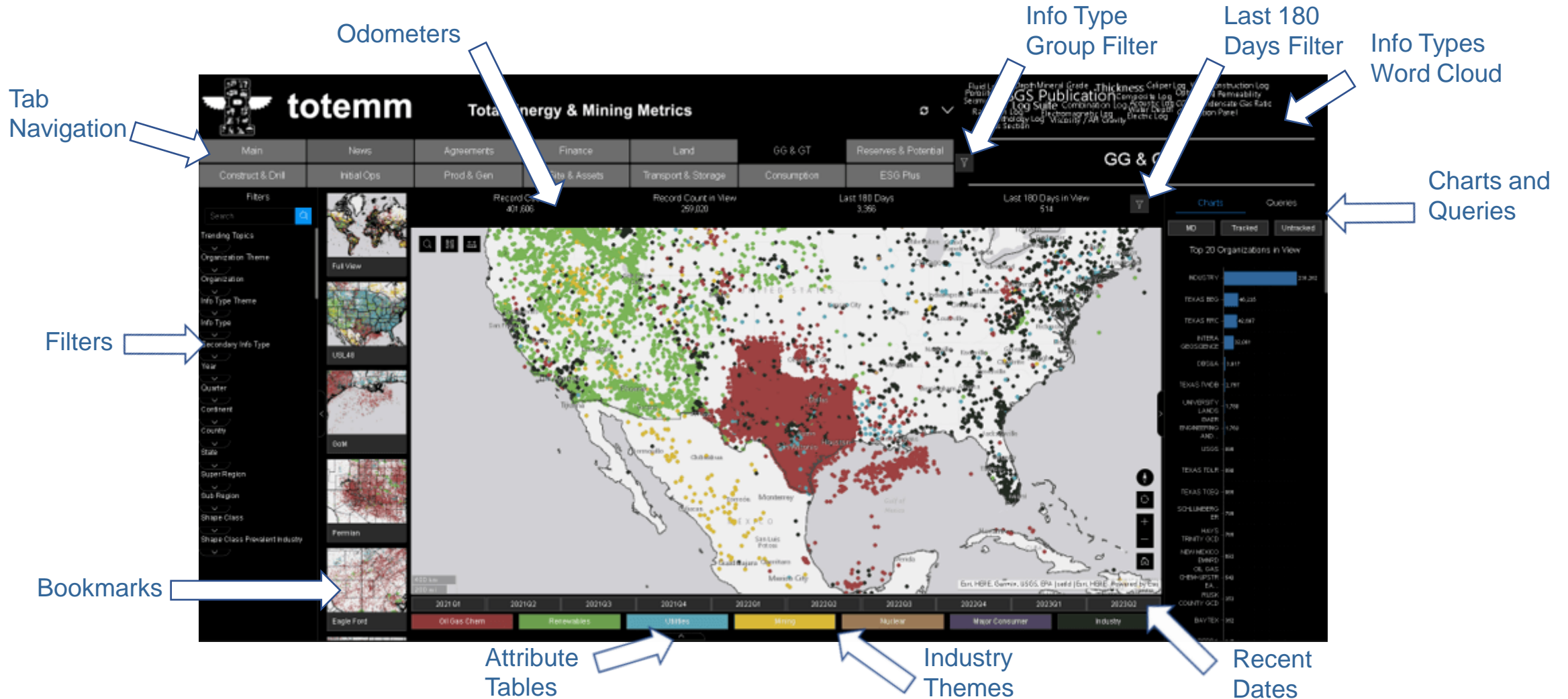


Review the  
attribute table

# TOTEMM Web Mapping Experience – GG & GT

## Purpose

Discover what publications, logs and specific G&G measurements we have for certain areas



## User Stories

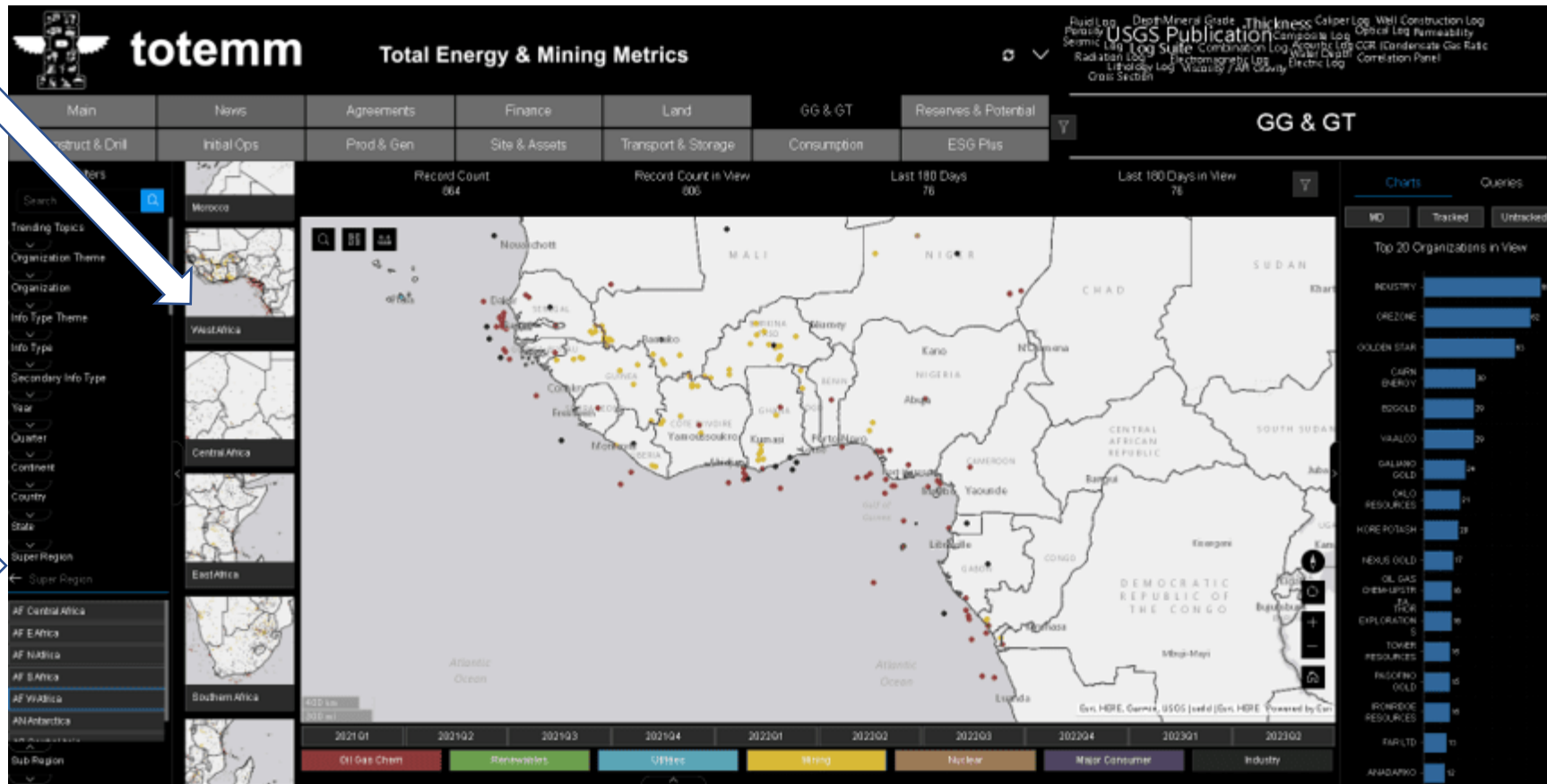
1. What logs are there for the Gulf of Mexico?
2. What area in Australia has high mineral grade?
3. What porosity values have been reported in the Montney?
4. What geologic documents are there for the Eagle Ford?
5. **What seismic surveys have been taken / talked about in West Africa?**

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

## TOTEMM Web Mapping Experience – GG & GT

## What seismic surveys have been taken / talked about in West Africa?

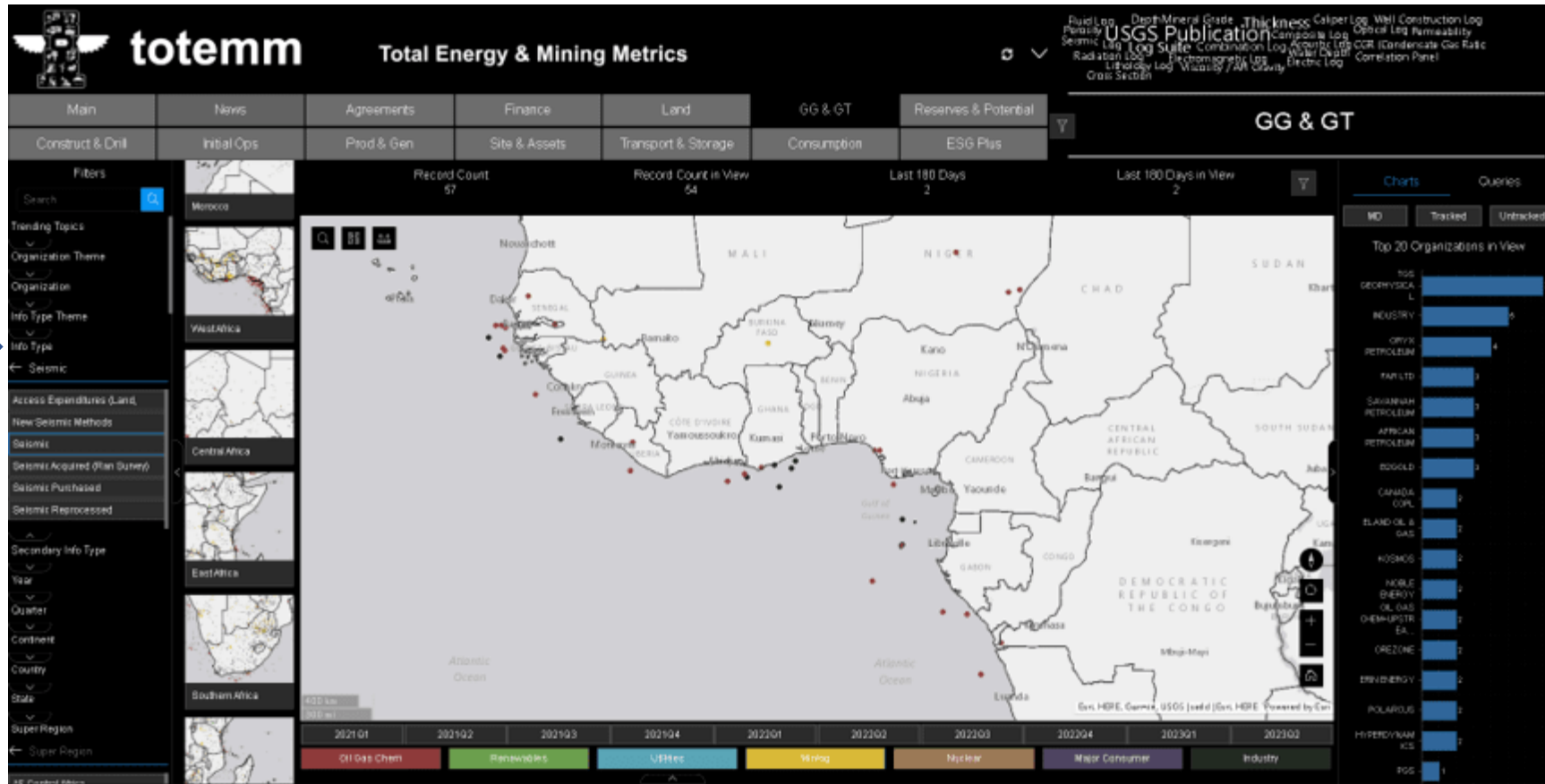
Select the West Africa bookmark



Search and select  
AF W Africa in the  
super region filter

# TOTEMM Web Mapping Experience – GG & GT

Search and select seismic in the info type filter





# TOTEMM Web Mapping Experience – GG & GT

The screenshot displays the TOTEMM web mapping interface. At the top, the 'totemm' logo and 'Total Energy & Mining Metrics' are visible. Below this is a navigation bar with tabs for Main, News, Agreements, Finance, Land, GG & GT, and Reserves & Potential. The 'GG & GT' tab is selected, showing sub-tabs for Construct & Drill, Initial Ops, Prod & Gen, Site & Assets, Transport & Storage, Consumption, and ESG Plus. A sidebar on the left contains filters for Organization Theme, Organization, Info Type Theme, Info Type, and Access Expenditures (Land). The main map area shows a map of West Africa with various countries labeled. Below the map, there are three tabs: All (57), Map Extent (54), and Query Results. The 'Query Results' tab is active, displaying a table with columns: setid ID, Organization, Super Region, Sub Region, Master Type, Secondary Mas..., Area, Area ID, and Info Type. An arrow points to the 'setid ID' column header. On the right side, there are sections for 'Charts' and 'Queries', including a 'Top 20 Organizations in View' bar chart.

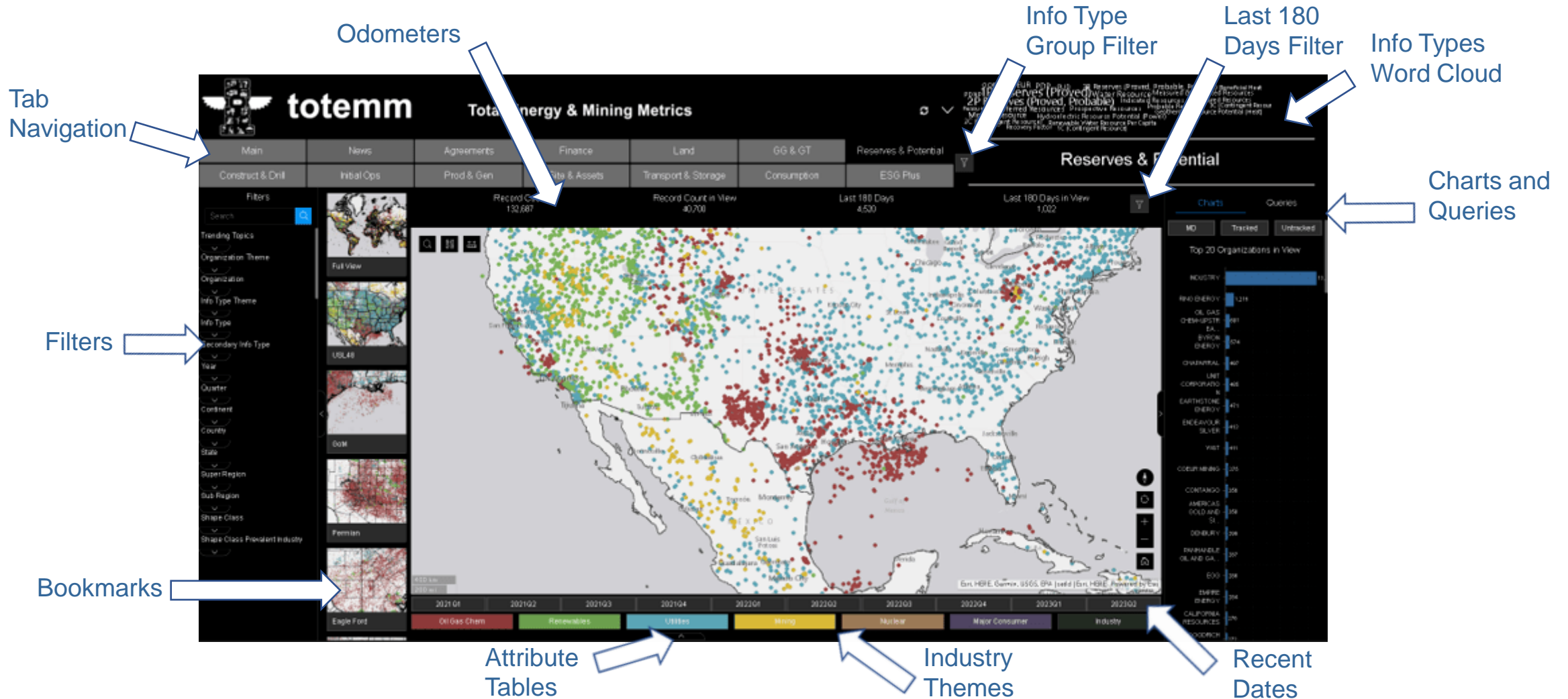
setid ID	Organization	Super Region	Sub Region	Master Type	Secondary Mas...	Area	Area ID	Info Type
2,871,058	FAR LTD	AF W Africa	Offshore W Africa	Regional Area		Far Ltd - Offshore Gamb...		Seismic
2,871,055	FAR LTD	AF W Africa	Offshore W Africa	Regional Area		Far Ltd - Offshore Gamb...		Seismic
1,708,290	PGS	AF W Africa	Offshore W Africa	Regional Area		PGS - Offshore Angola 3...		Seismic
1,708,289	PGS	AF W Africa	Offshore W Africa	Regional Area		PGS - Offshore Angola 3...		Seismic
1,708,286	PGS	AF W Africa	Offshore W Africa	Regional Area		PGS - Offshore Angola 3...		Seismic
1,708,032	TGS GEOPHYSICAL	AF W Africa	Offshore W Africa	Regional Area		Offshore Sierra Leone		Seismic
1,708,030	TGS GEOPHYSICAL	AF W Africa	Offshore W Africa	Regional Area		Offshore Sierra Leone		Seismic
1,247,907	ENERGULF	AF W Africa		Leasehold		Energulf - Lotshi Block 20...		Seismic
96,1467	CARNENERGY	AF W Africa	Bonman Mining Bsh	Leasehold		Carn Energy - Cote d'Ivoi...		Seismic
885,476	TOTAL	AF W Africa	Offshore W Africa	Leasehold	Field Prospect Lead	Total - Offshore Ivory Cos...	Azobe Oil Prospect	Seismic

Review the  
attribute table

# TOTEMM Web Mapping Experience – Reserves & Potential

## Purpose

See reserves, resources, and energy generation potential by organization and area over time



## User Stories

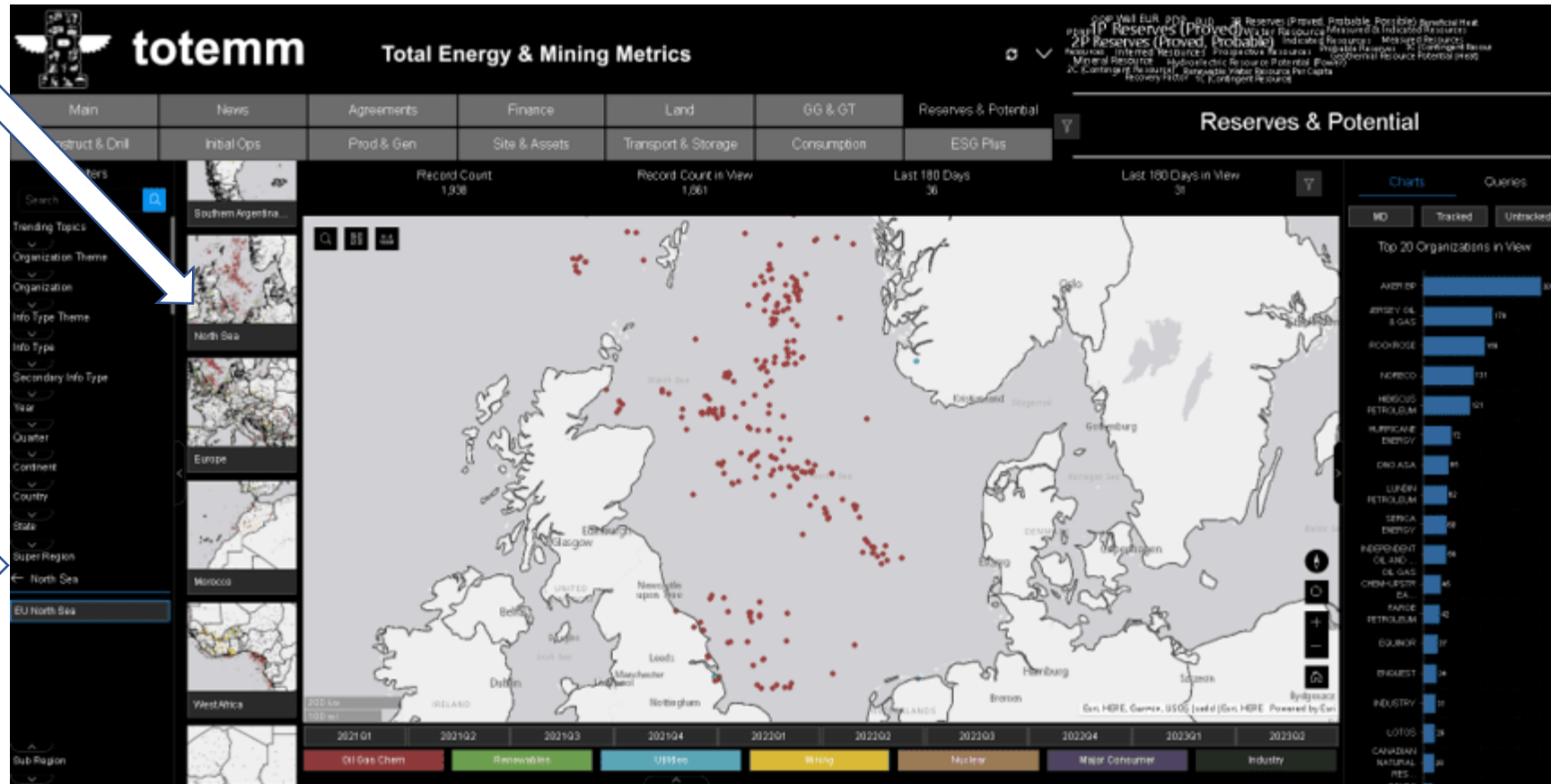
1. What reported well EURs are there in the Permian?
2. What are Ring Energy's 1P reserves?
3. What are Horizon Minerals' mineral resources?
4. **What organizations have 3P reserves in the North Sea?**
5. What is the hydroelectric resource potential of the Himalayas?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Web Mapping Experience – Reserves & Potential

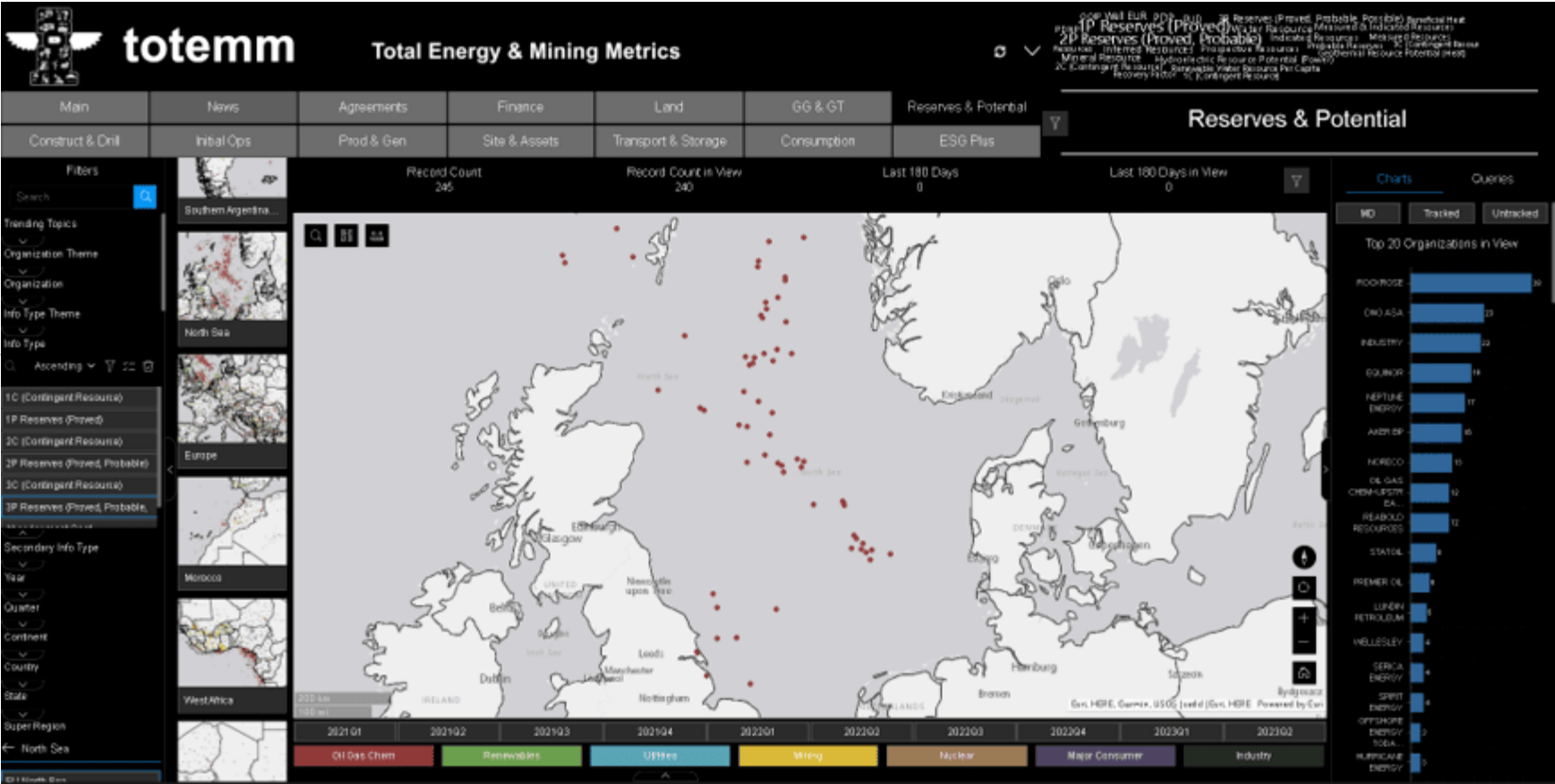
## What organizations have 3P reserves in the North Sea?

Select the North Sea bookmark



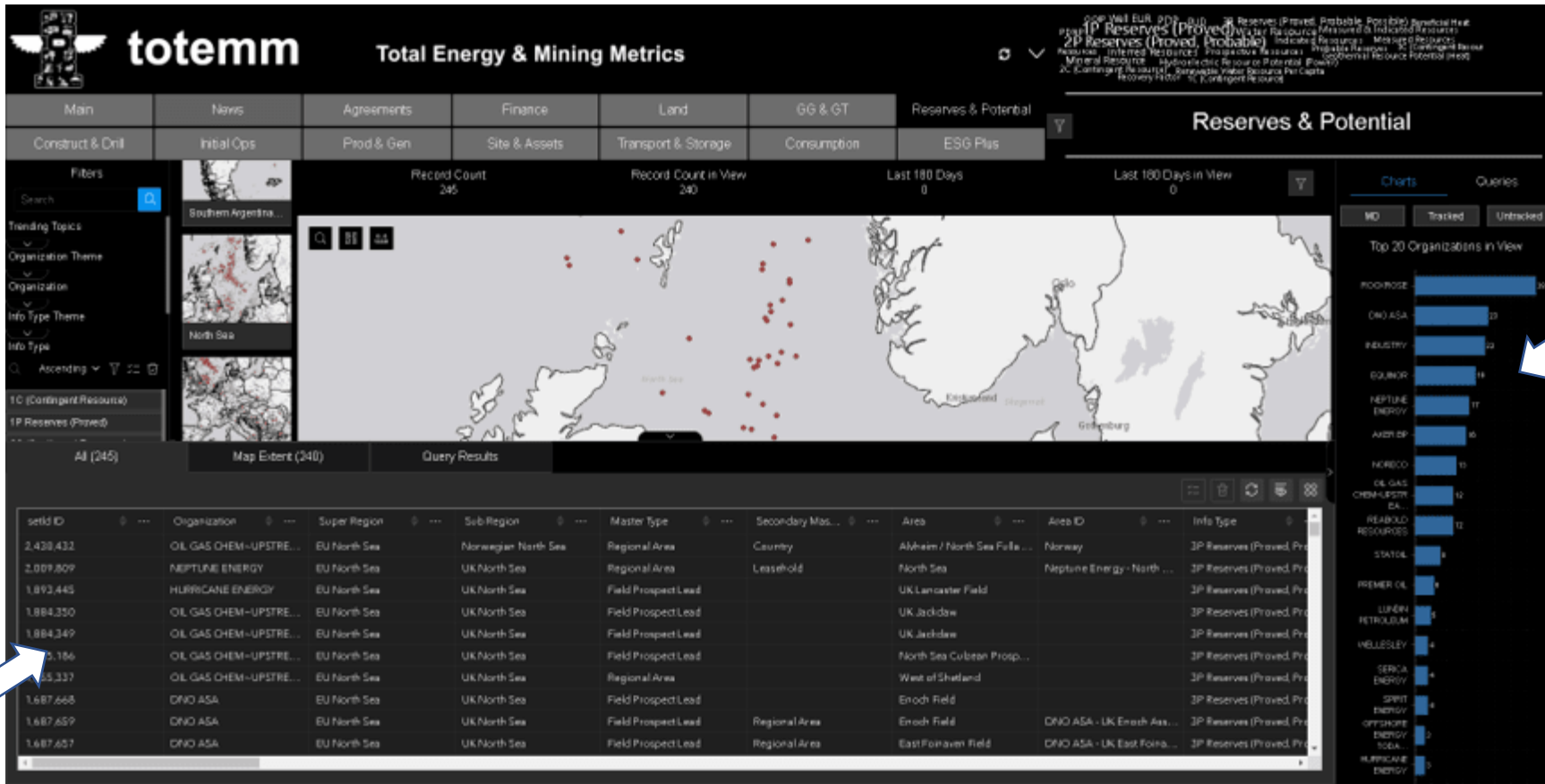
Search and select North Sea in the super region filter

## TOTEMM Web Mapping Experience – Reserves & Potential



Search and select  
3P reserves in the  
info type filter ☐

## TOTEMM Web Mapping Experience – Reserves & Potential



## Review the top 20 organizations chart

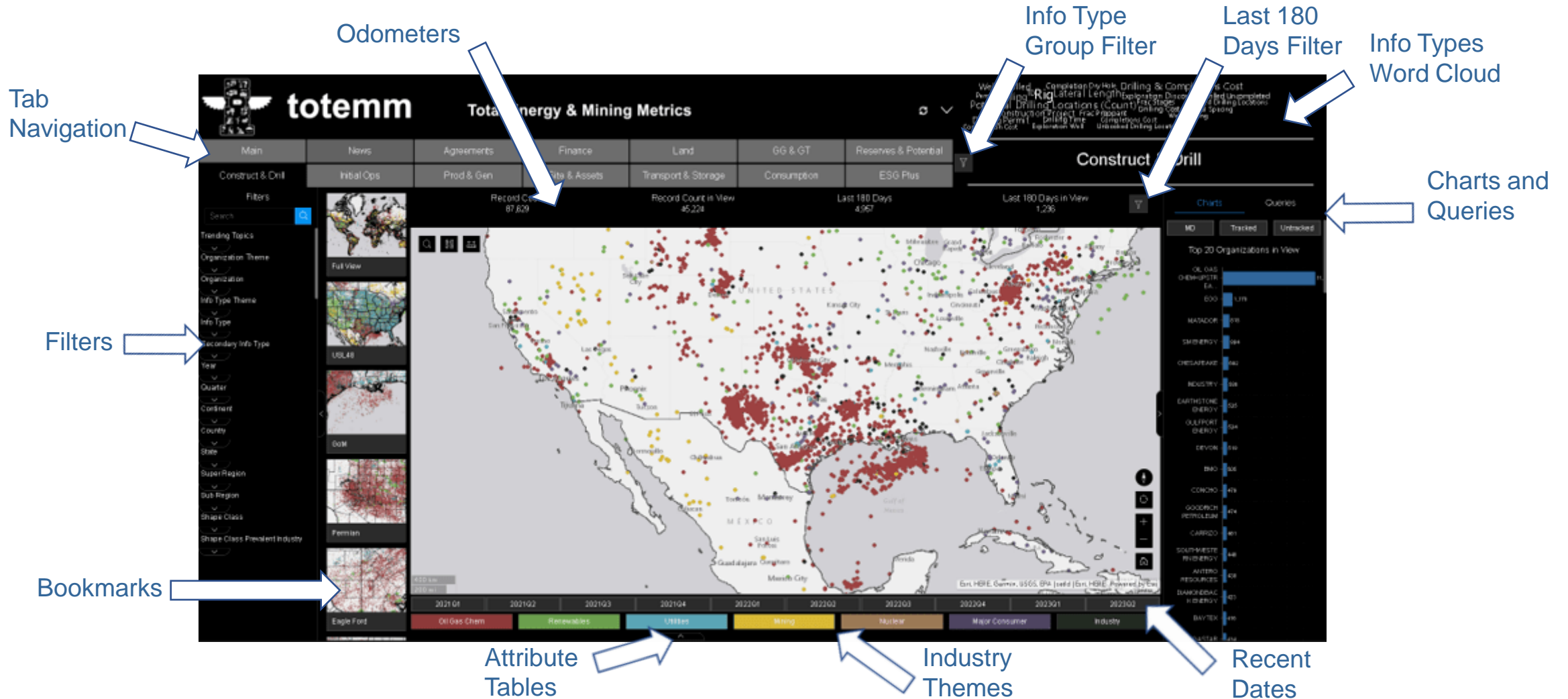
Review the attribute table



# TOTEMM Web Mapping Experience – Construct & Drill

## Purpose

See construction and drilling activity by organization and area



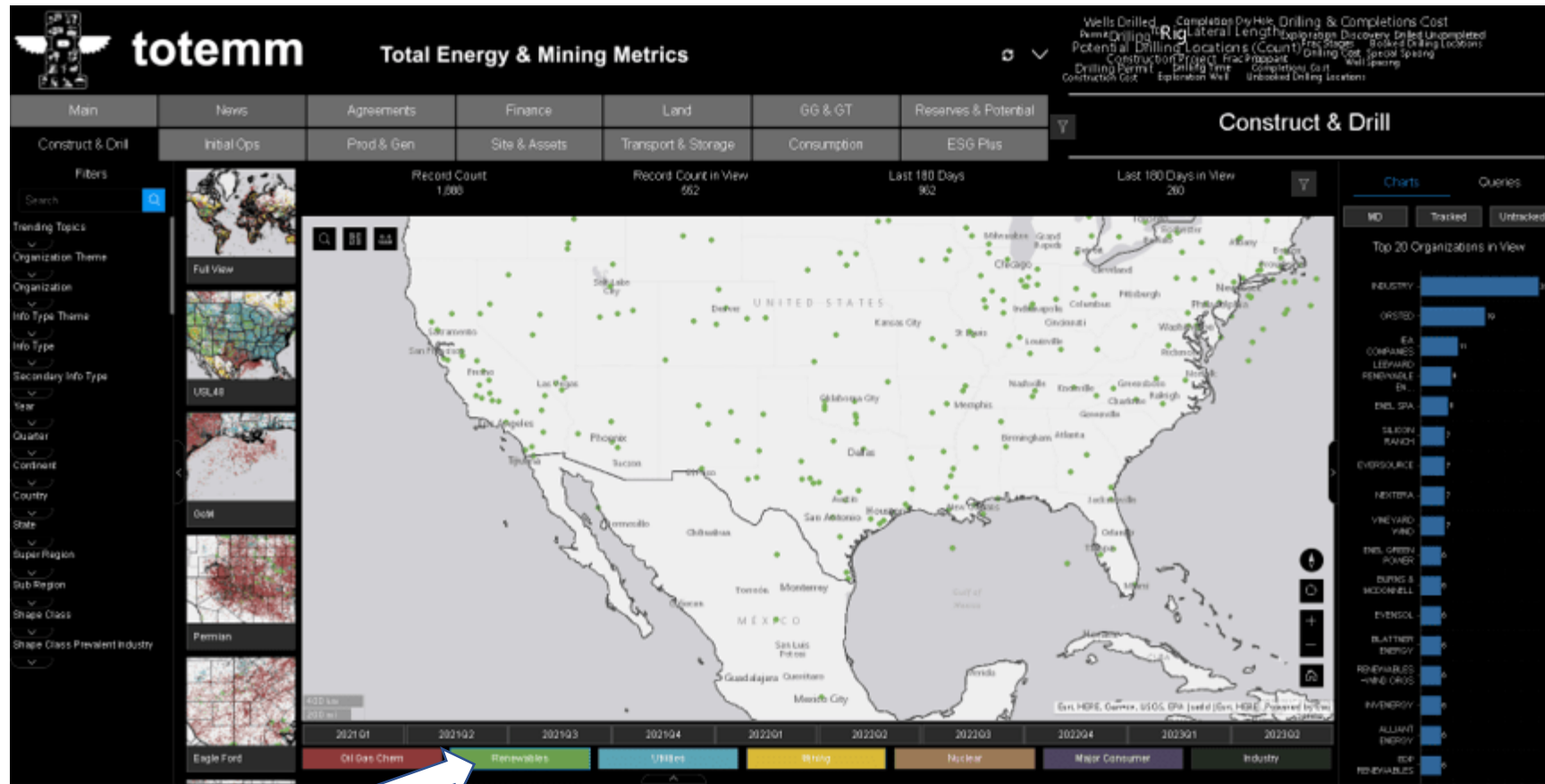
## User Stories

1. What is Devon constructing or drilling in the United States?
2. **What renewables construct & drill activity occurred recently?**
3. Where are the largest construct & drill expenditures for oil gas chem recently?
4. What are typical lateral lengths in the Permian?
5. What are the lowest drilling & completions costs in the Permian?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Web Mapping Experience – Construct & Drill

What renewables construct & drill activity occurred recently?

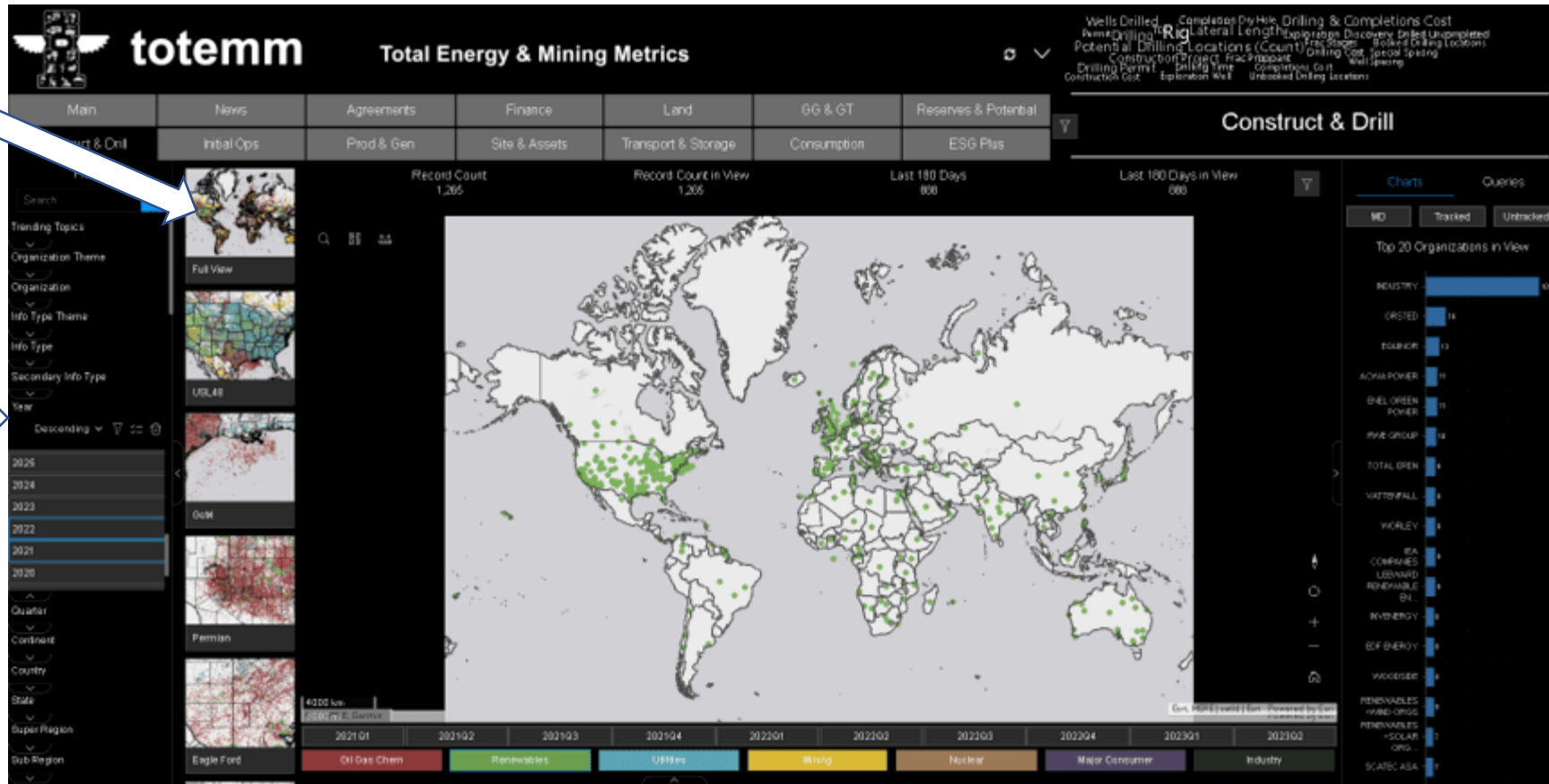


Click the renewables industry theme button

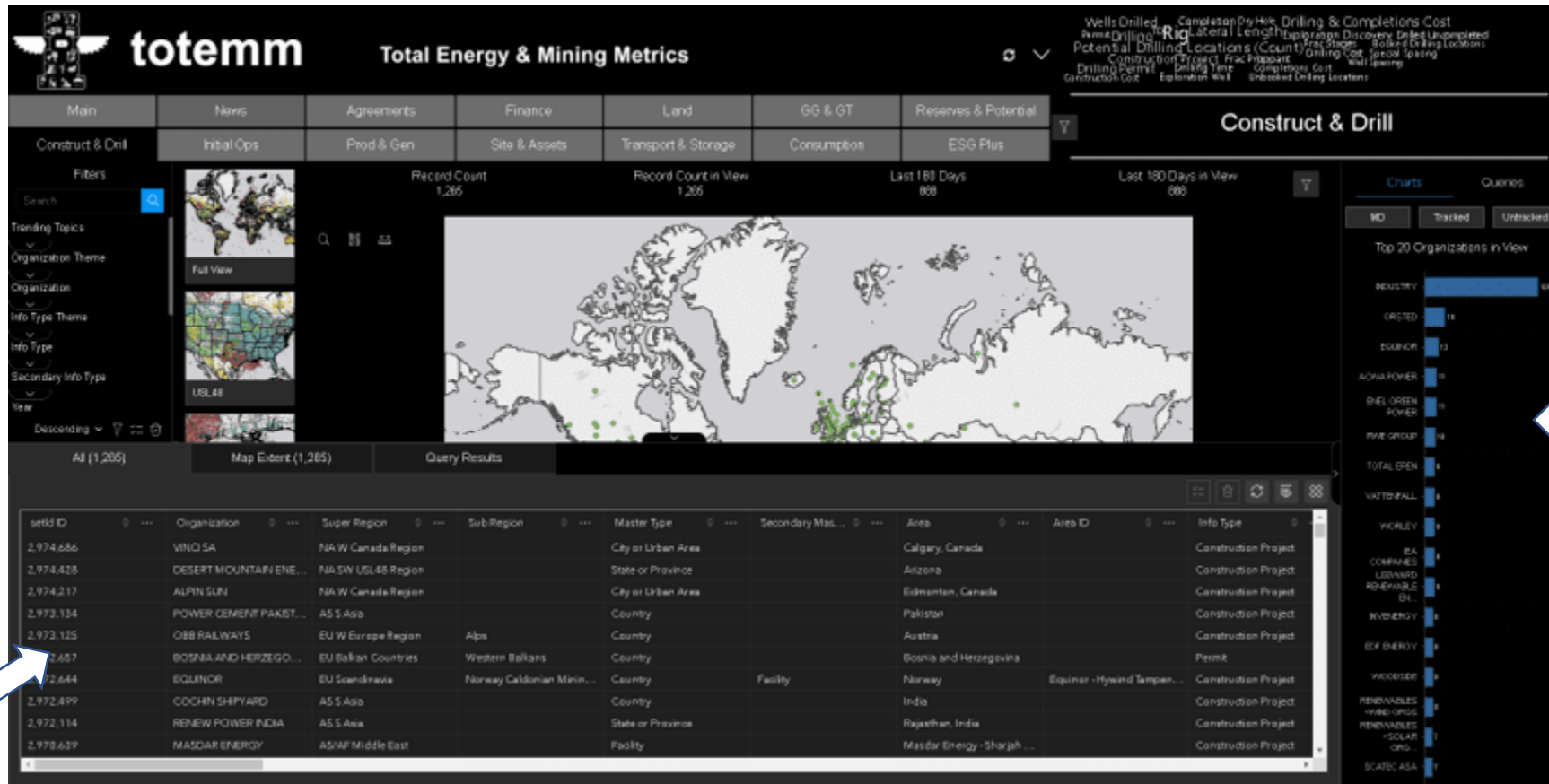
# TOTEMM Web Mapping Experience – Construct & Drill

Select the full view bookmark

Select 2021, 2022 in the year filter



# TOTEMM Web Mapping Experience – Construct & Drill



Review the attribute table

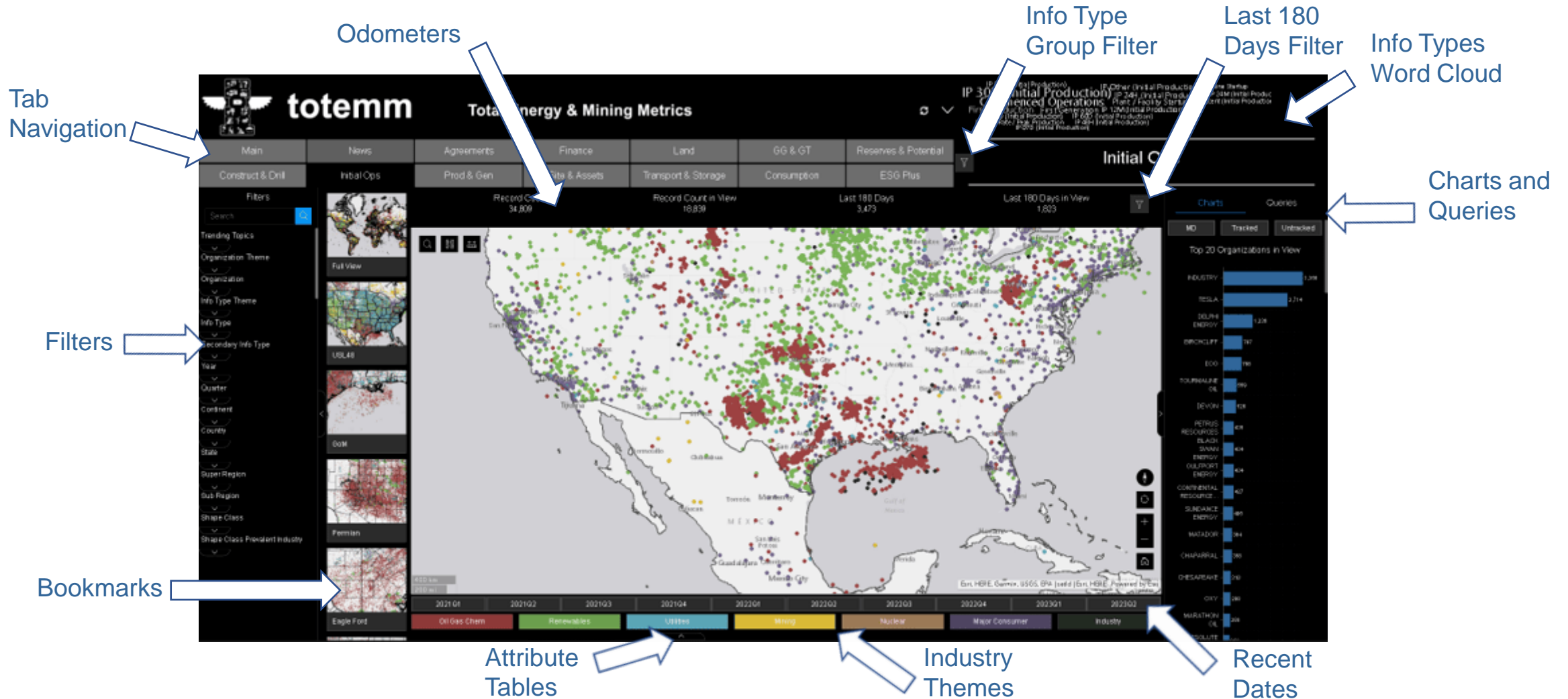
Review the charts



# TOTEMM Web Mapping Experience – Initial Ops

## Purpose

See initial production / generation and startup / commenced operations by organization and area over time





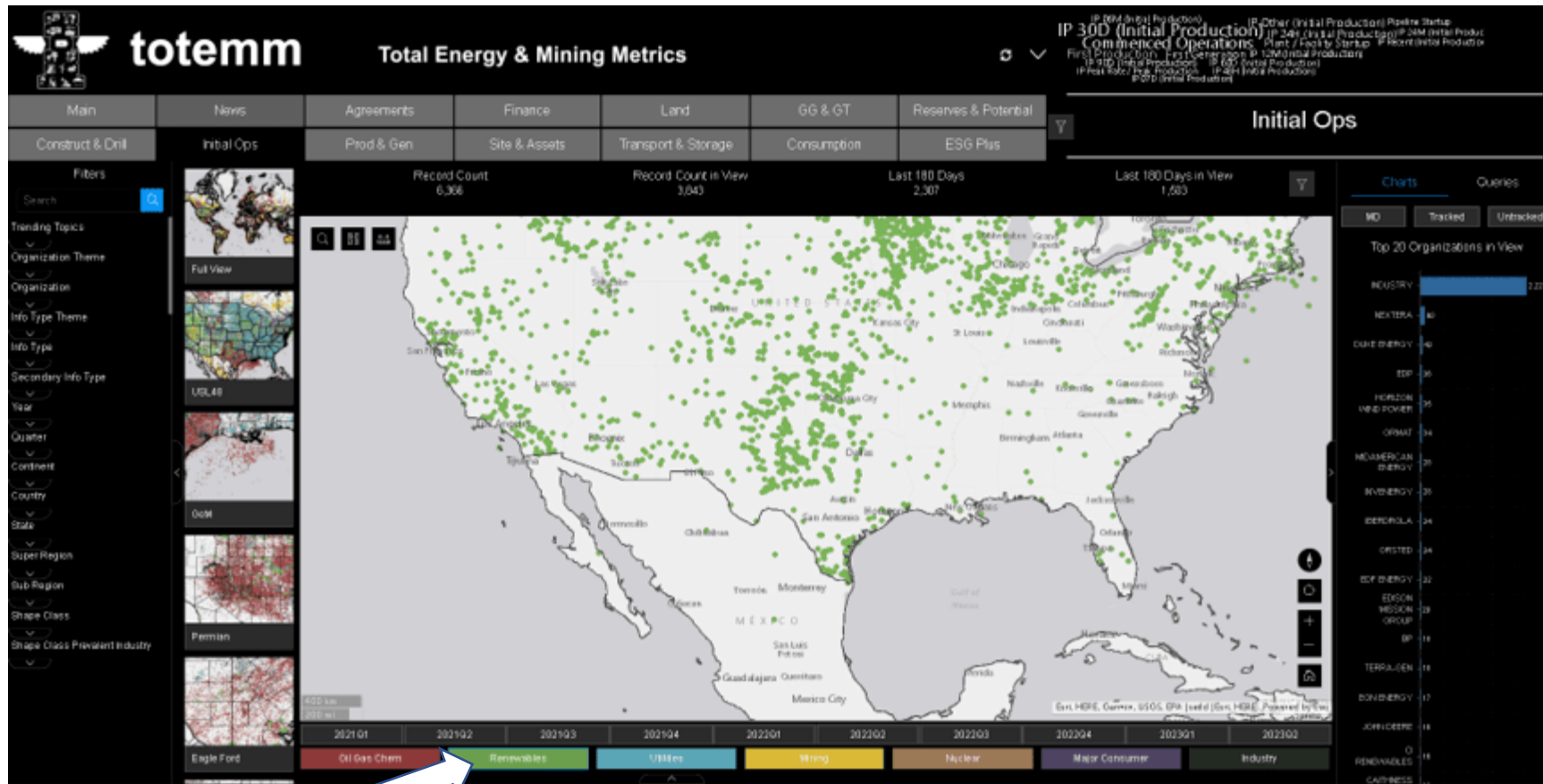
## User Stories

1. Where did BP start production in the last two years?
2. Who has had high initial production in the United States recently?
3. What are Oxy's largest IPs?
4. **Who is starting up renewables facilities in the United States?**
5. What pipelines are coming online and when?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Web Mapping Experience – Initial Ops

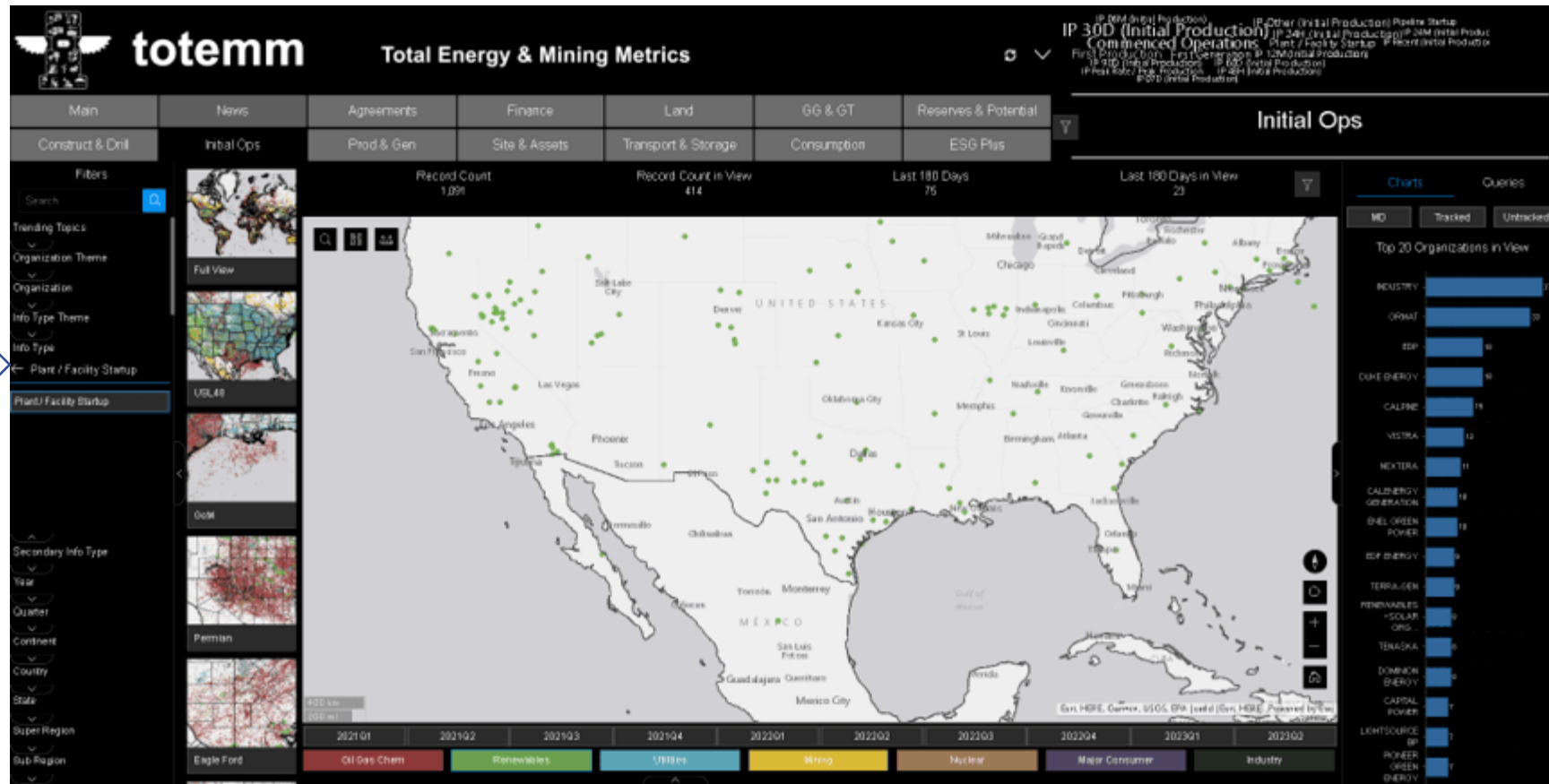
Who is starting up renewables facilities in the United States?



Click the renewables industry theme button

# TOTEMM Web Mapping Experience – Initial Ops

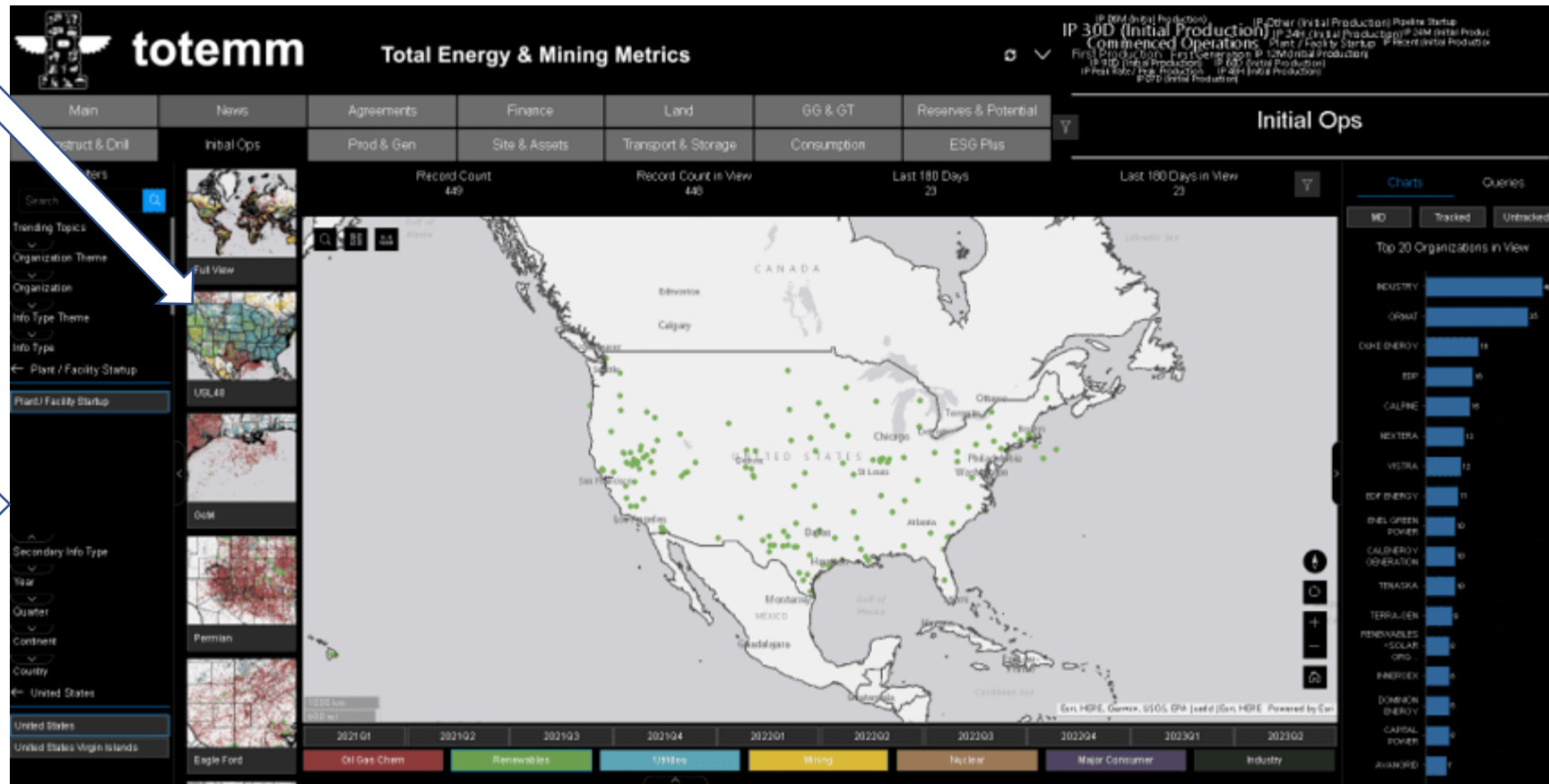
Search and select  
plant / facility  
startup in the info  
type filter



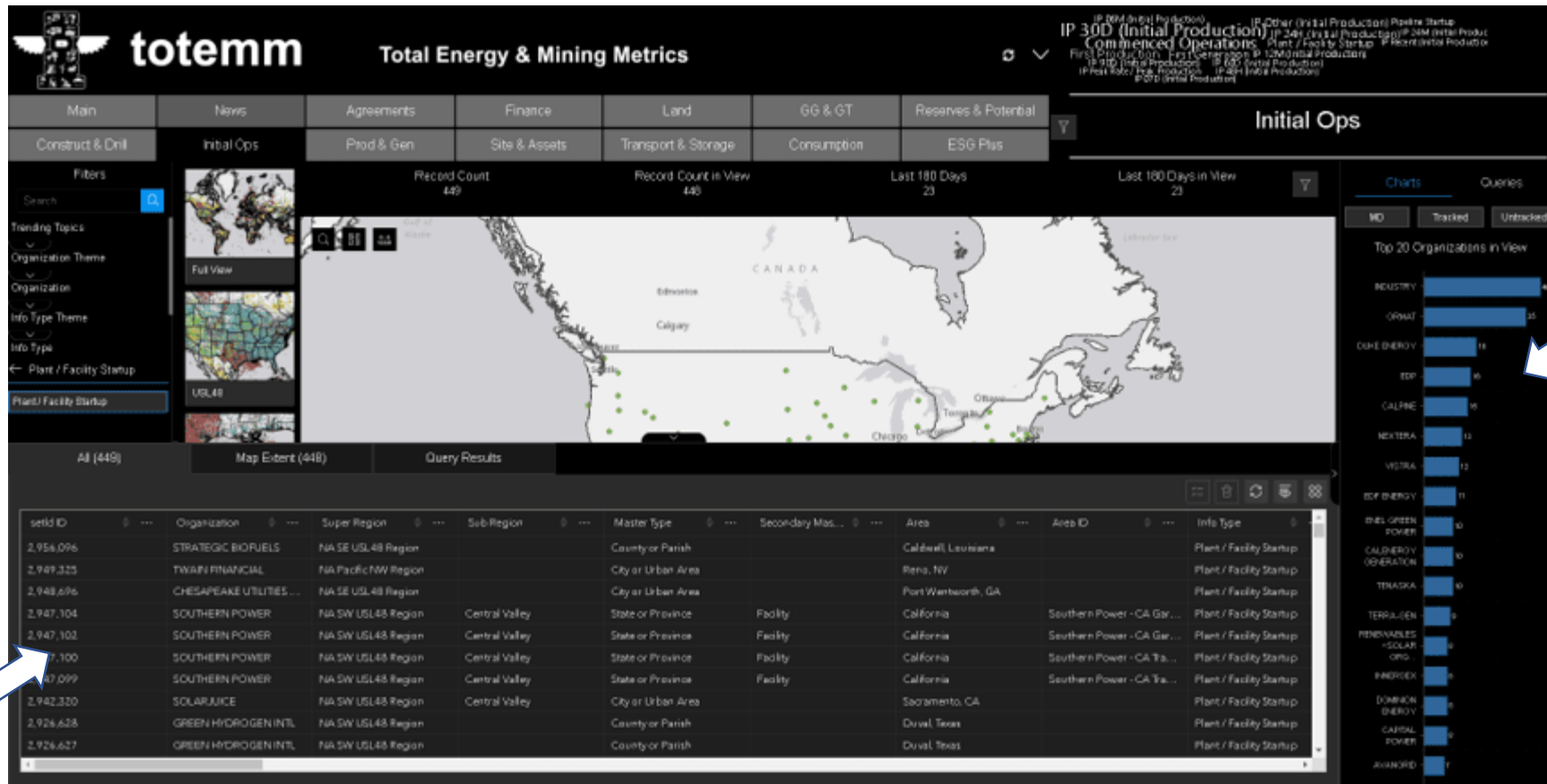
# TOTEMM Web Mapping Experience – Initial Ops

Select the USL48 bookmark

Search and select United States from the country filter



# TOTEMM Web Mapping Experience – Initial Ops



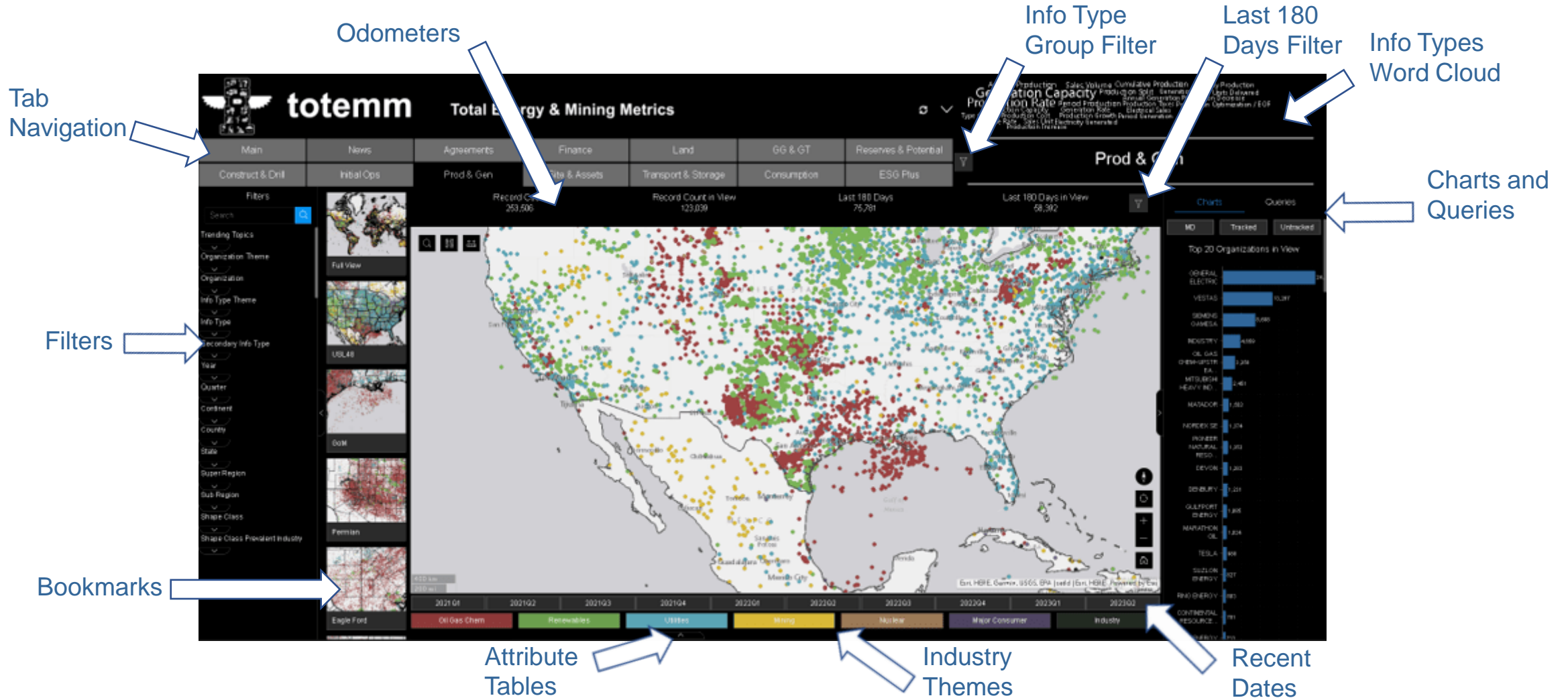
Review the top 20 organizations chart

Review the attribute table

# TOTEMM Web Mapping Experience – Prod & Gen

## Purpose

See production / generation and related costs by organization and area over time





## User Stories

1. What is annual production in the United States?
2. **What organizations are involved with hydrogen production or generation?**
3. What organizations in the Permian have recent high production rates, and what are they producing?
4. What organizations had the highest renewables generation rate in recent years, via what method?
5. Where are the lowest production costs and for what industry?

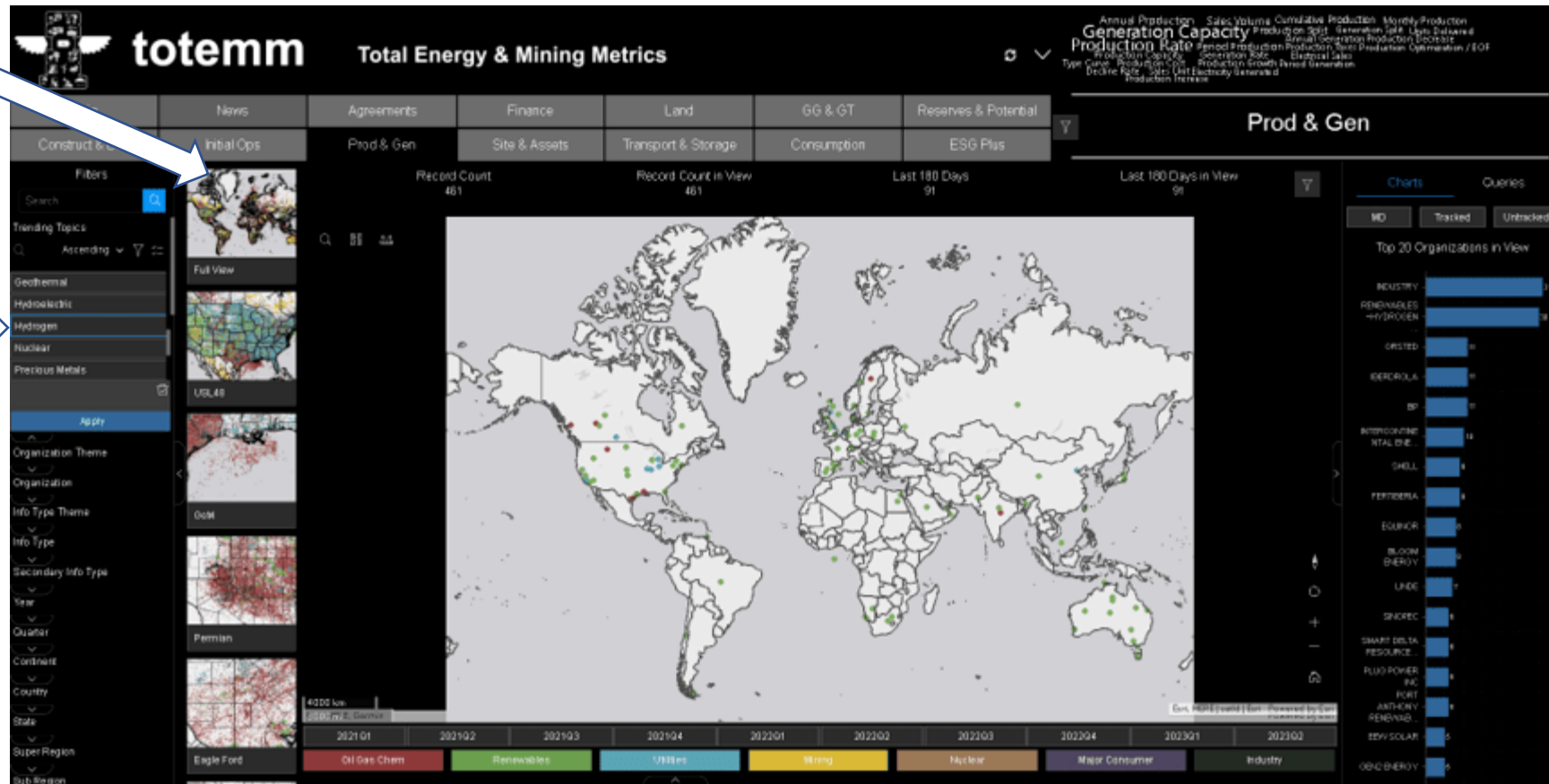
User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Web Mapping Experience – Prod & Gen

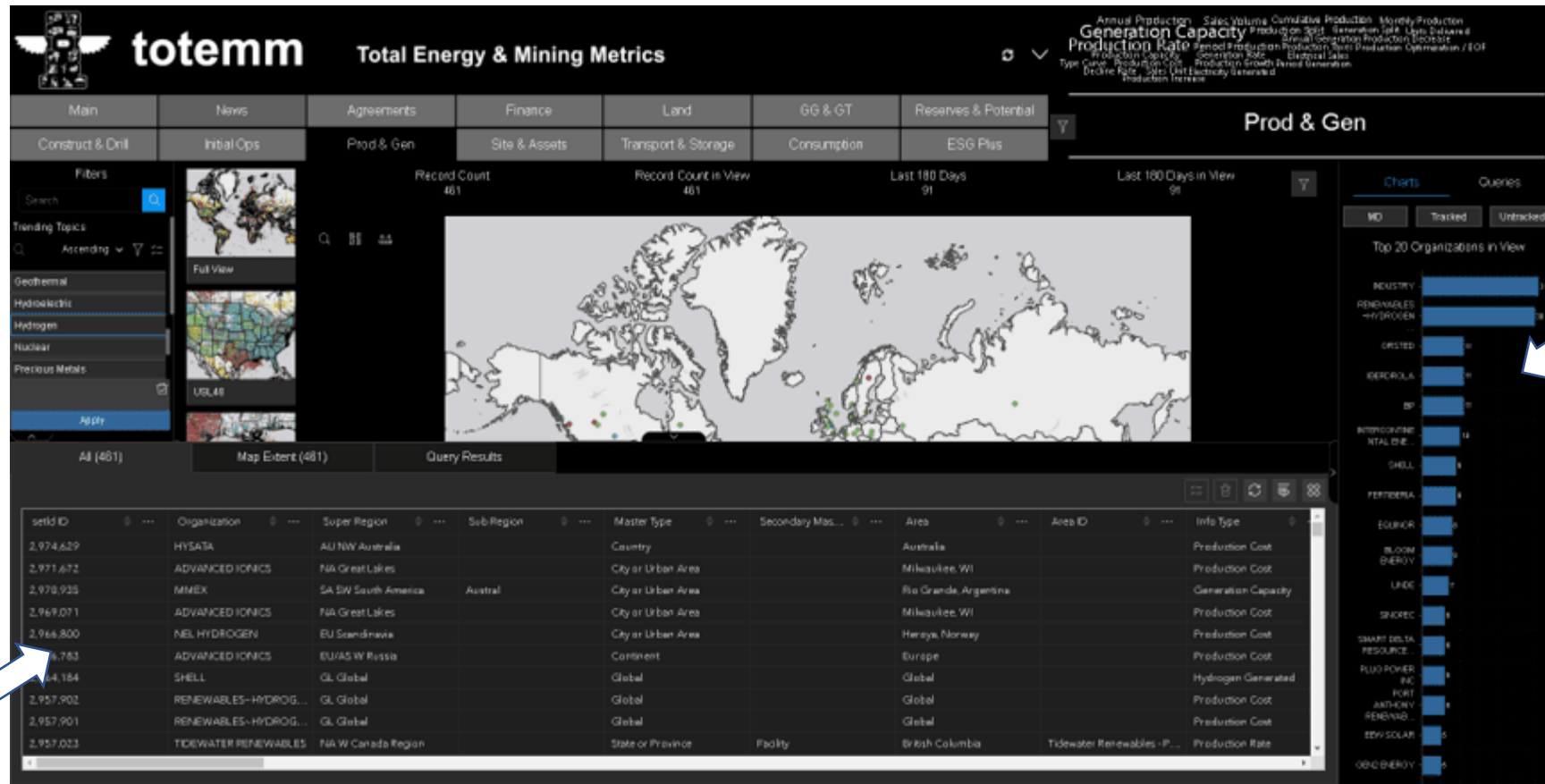
What organizations are involved with hydrogen production or generation?

Select the full view bookmark

Search and select hydrogen in the trending topics filter, and click apply



# TOTEMM Web Mapping Experience – Prod & Gen



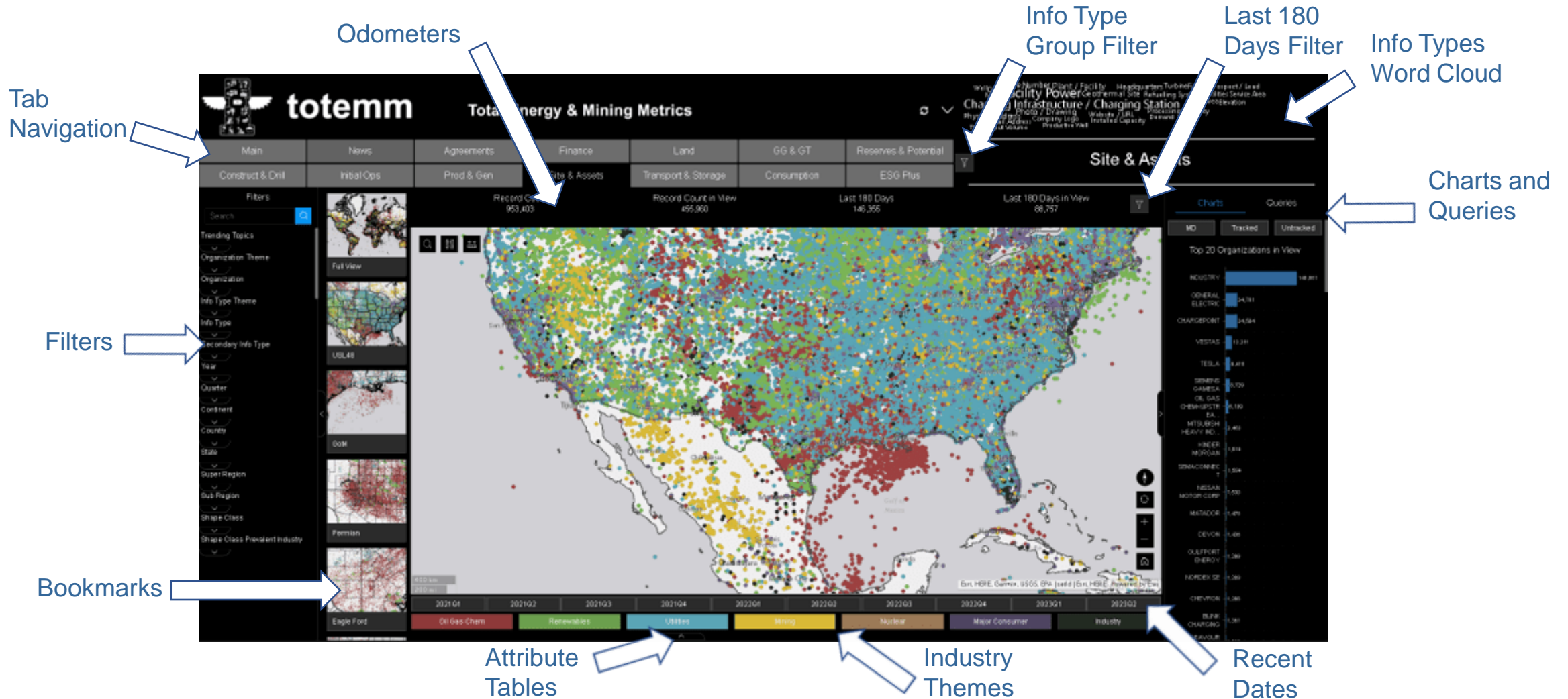
Review the top 20 organizations chart

Review the attribute table

# TOTEMM Web Mapping Experience – Site & Assets

## Purpose

Discover site and asset locations / areas, by organization as it relates to ownership and industry theme



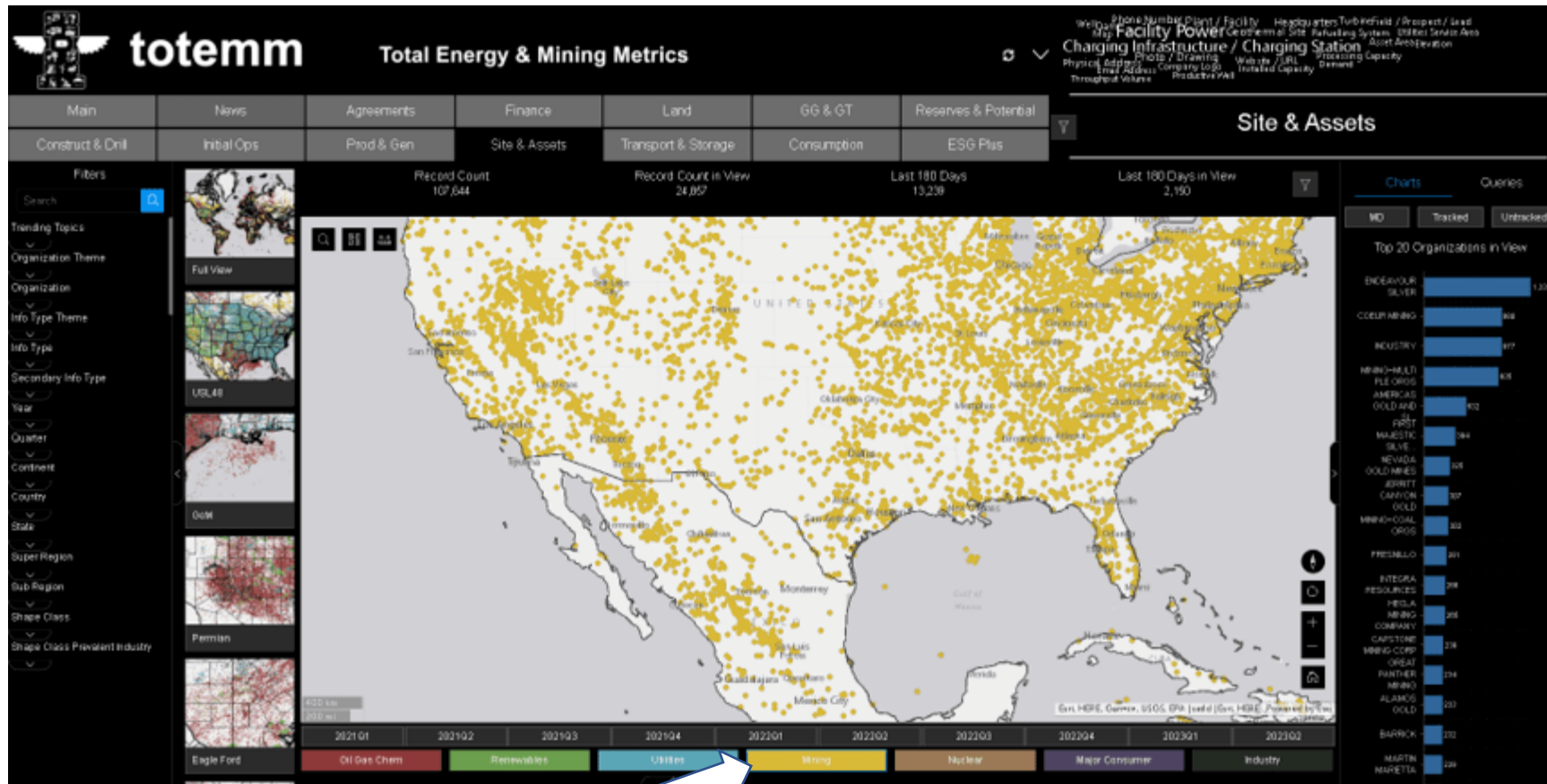
## User Stories

1. What site and assets does Equinor own in the North Sea?
2. Where are Shell's wind assets?
3. **Where are BHP's mining facilities?**
4. What organizations have utilities service areas in the United States?
5. Where are substations in the United States?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Web Mapping Experience – Site & Assets

## Where are BHP's mining facilities?

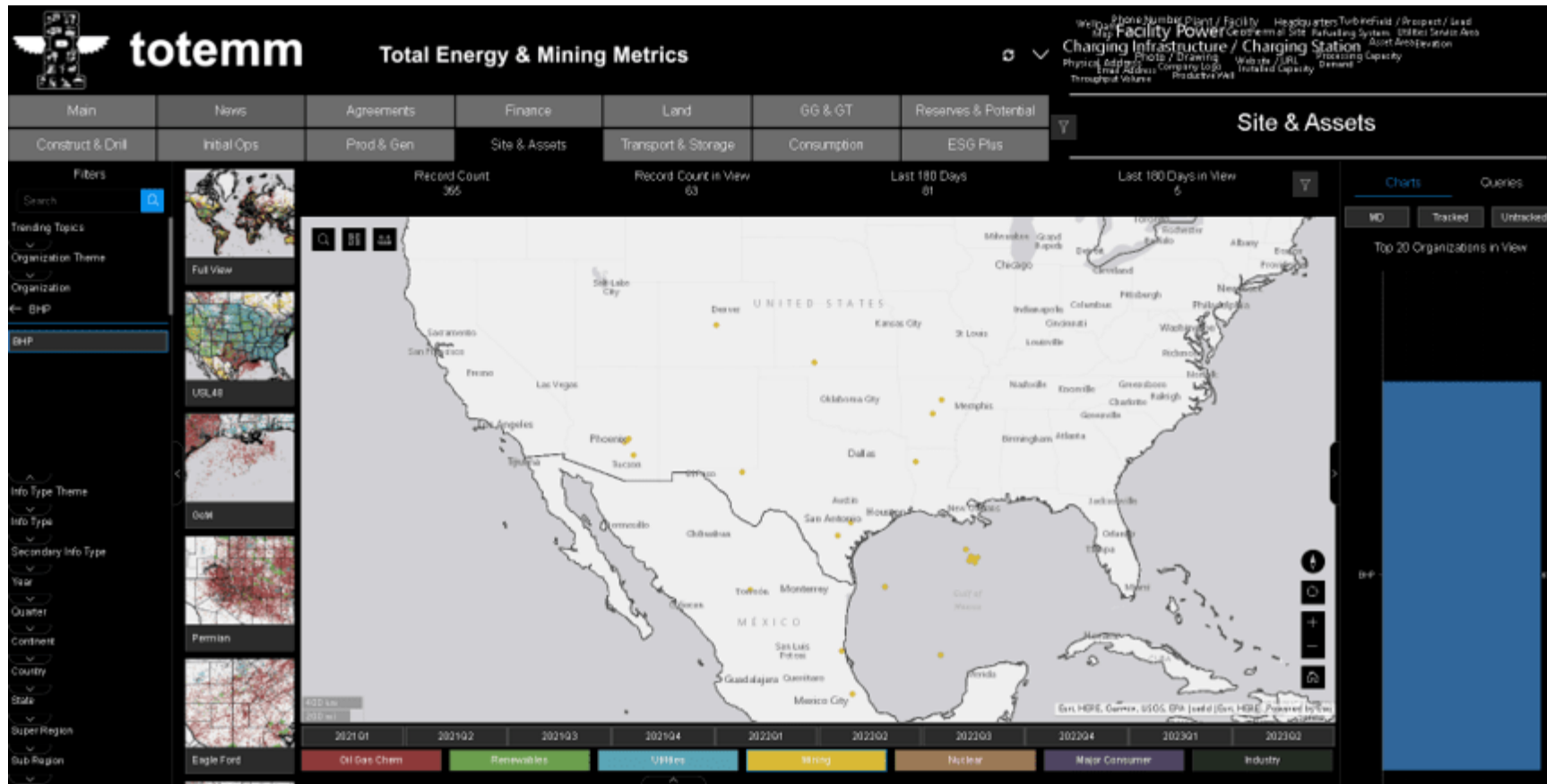


Click the mining industry theme button



# TOTEMM Web Mapping Experience – Site & Assets

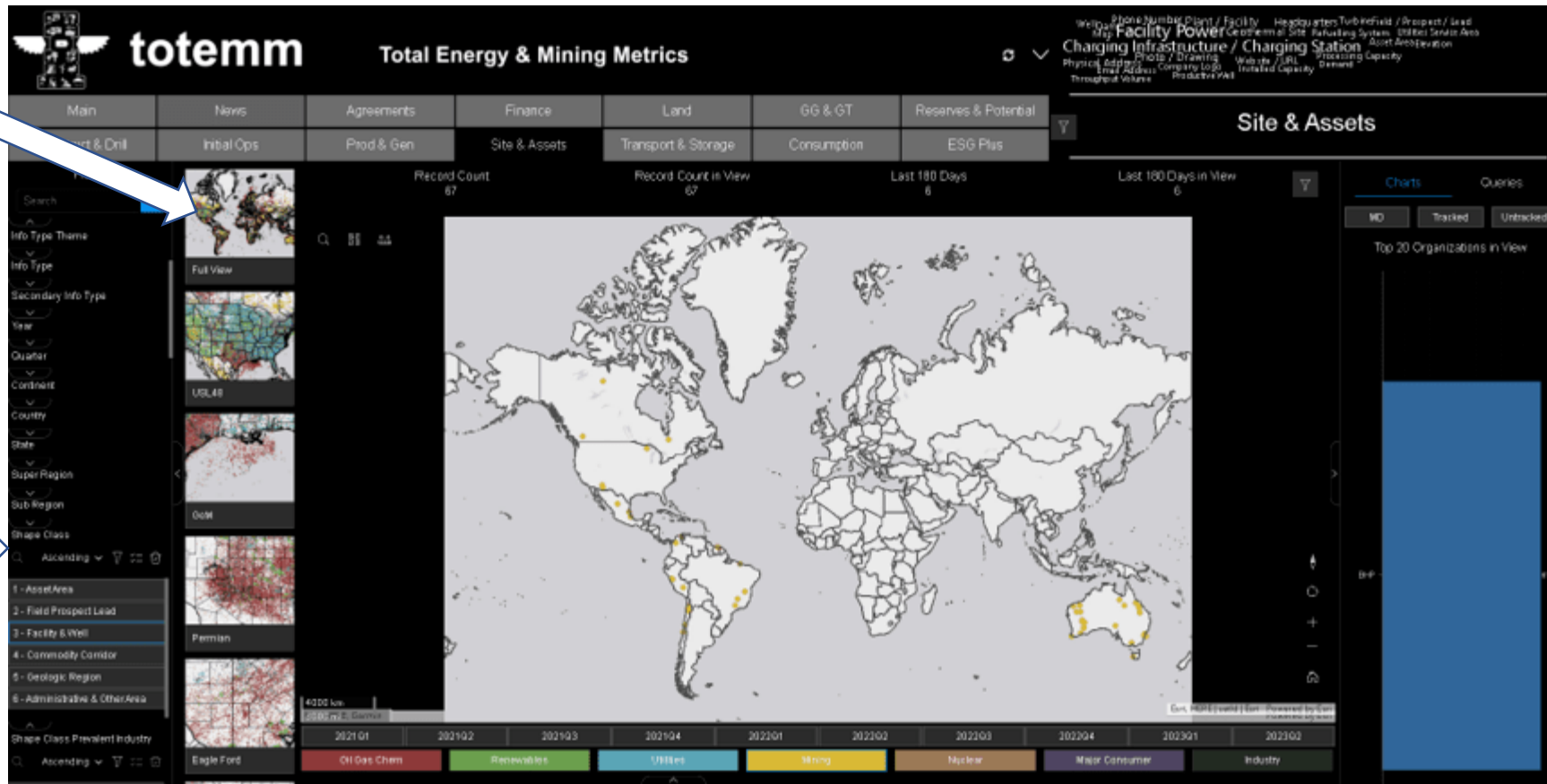
Search and select  
BHP in the  
organization filter



# TOTEMM Web Mapping Experience – Site & Assets

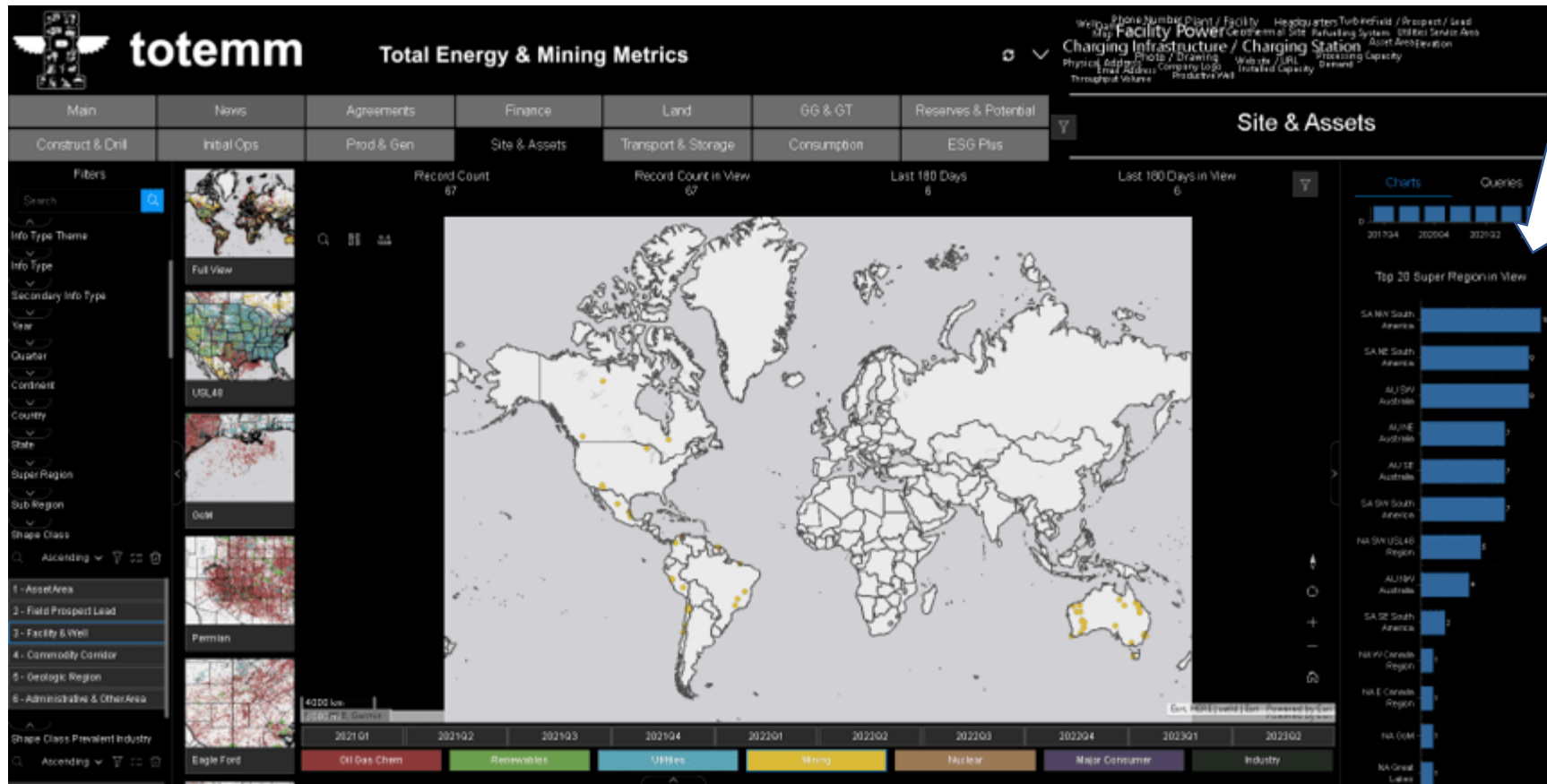
Select the full view bookmark

Select facility & well in the shape class filter



# TOTEMM Web Mapping Experience – Site & Assets

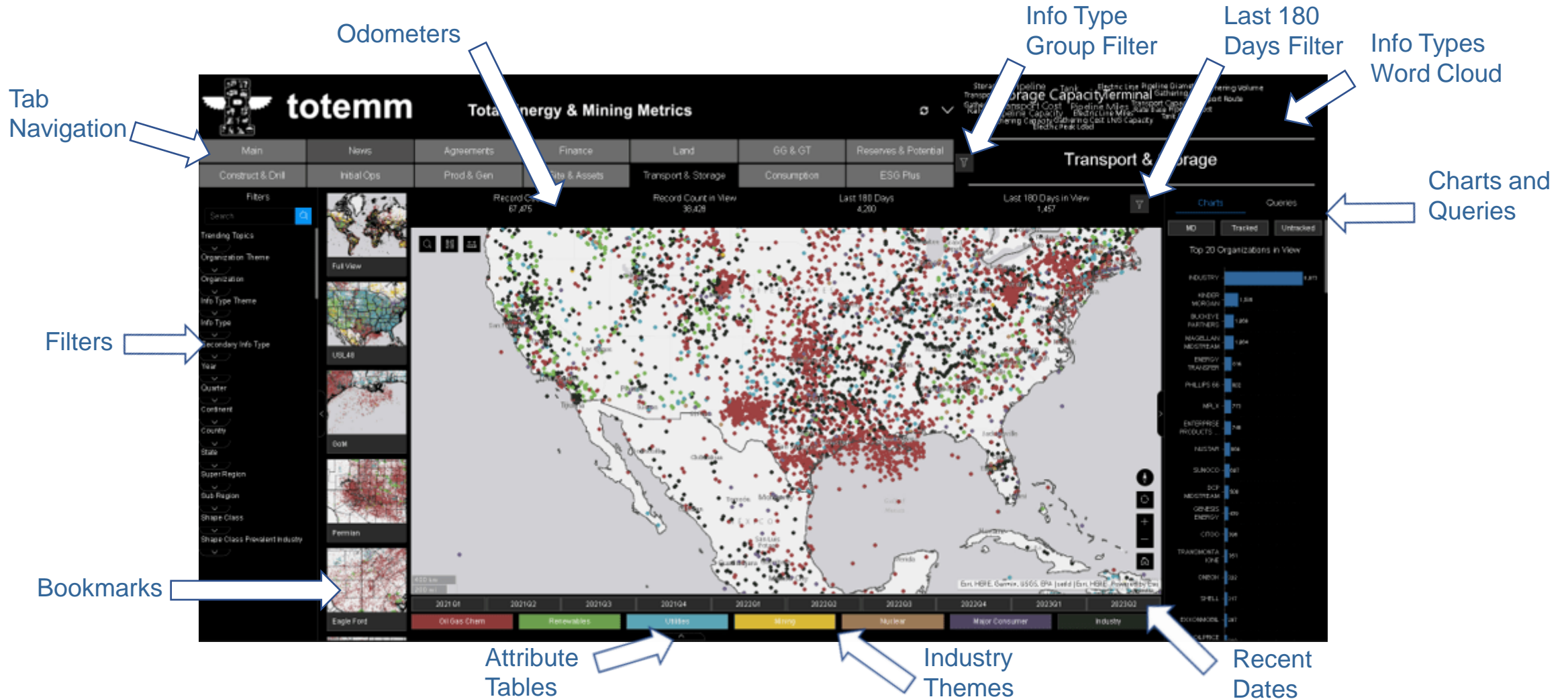
Review the map and charts to see BHP's mining facility locations



# TOTEMM Web Mapping Experience – Transport & Storage

## Purpose

See transportation corridors and storage locations and their associated capacities by organization and area over time



## User Stories

1. Where are Phillips 66's transportation corridors?
2. What pipelines are being proposed in the Middle East?
3. What are the capacities of Energy Transfer pipelines in the Permian?
4. What are the storage capacities of terminals in the Marcellus, and what are they storing?
5. **What terminals are storing hydrocarbons in the United States?**

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

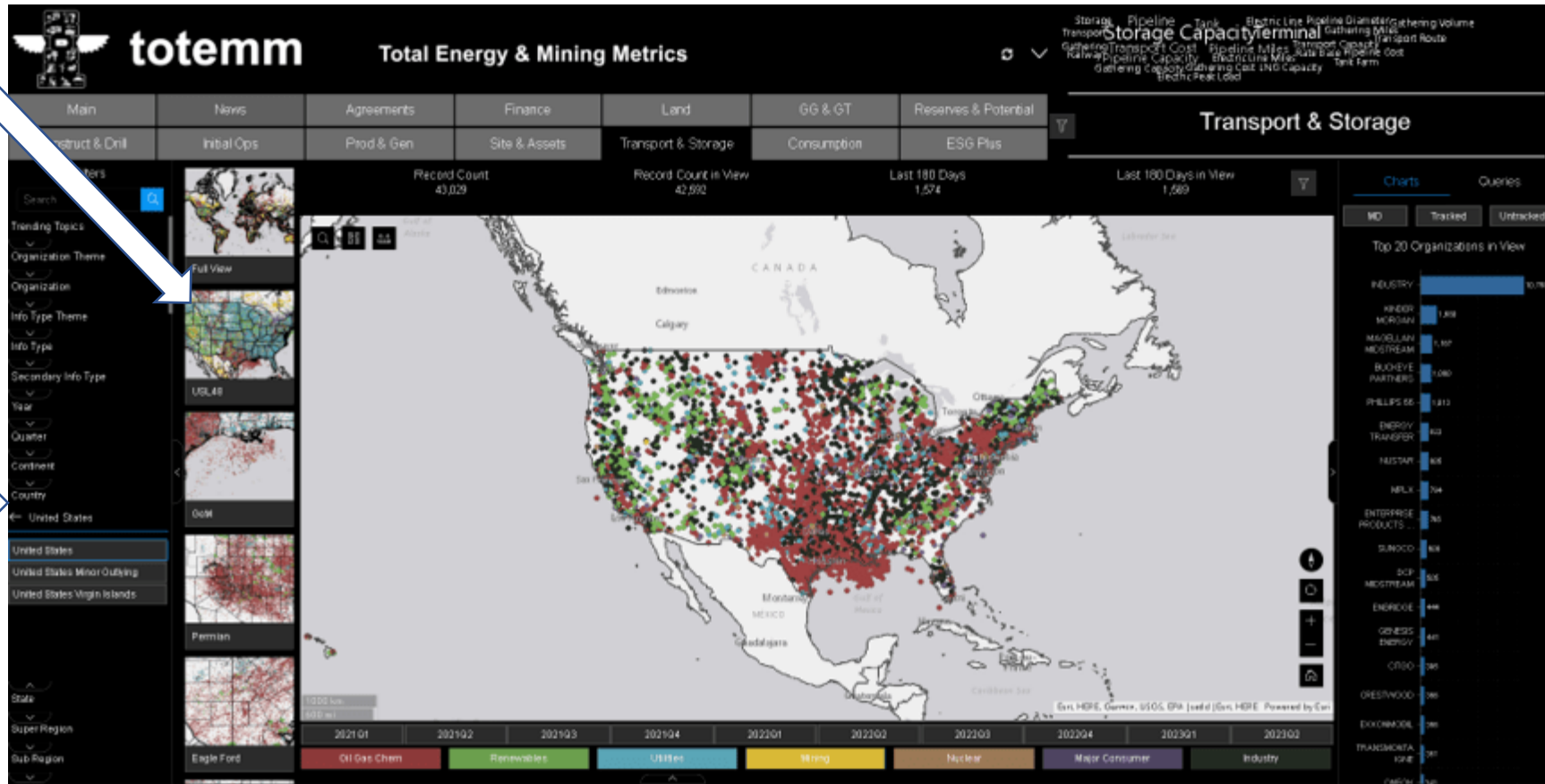


# TOTEMM Web Mapping Experience – Transport & Storage

## What terminals are storing hydrocarbons in the United States?

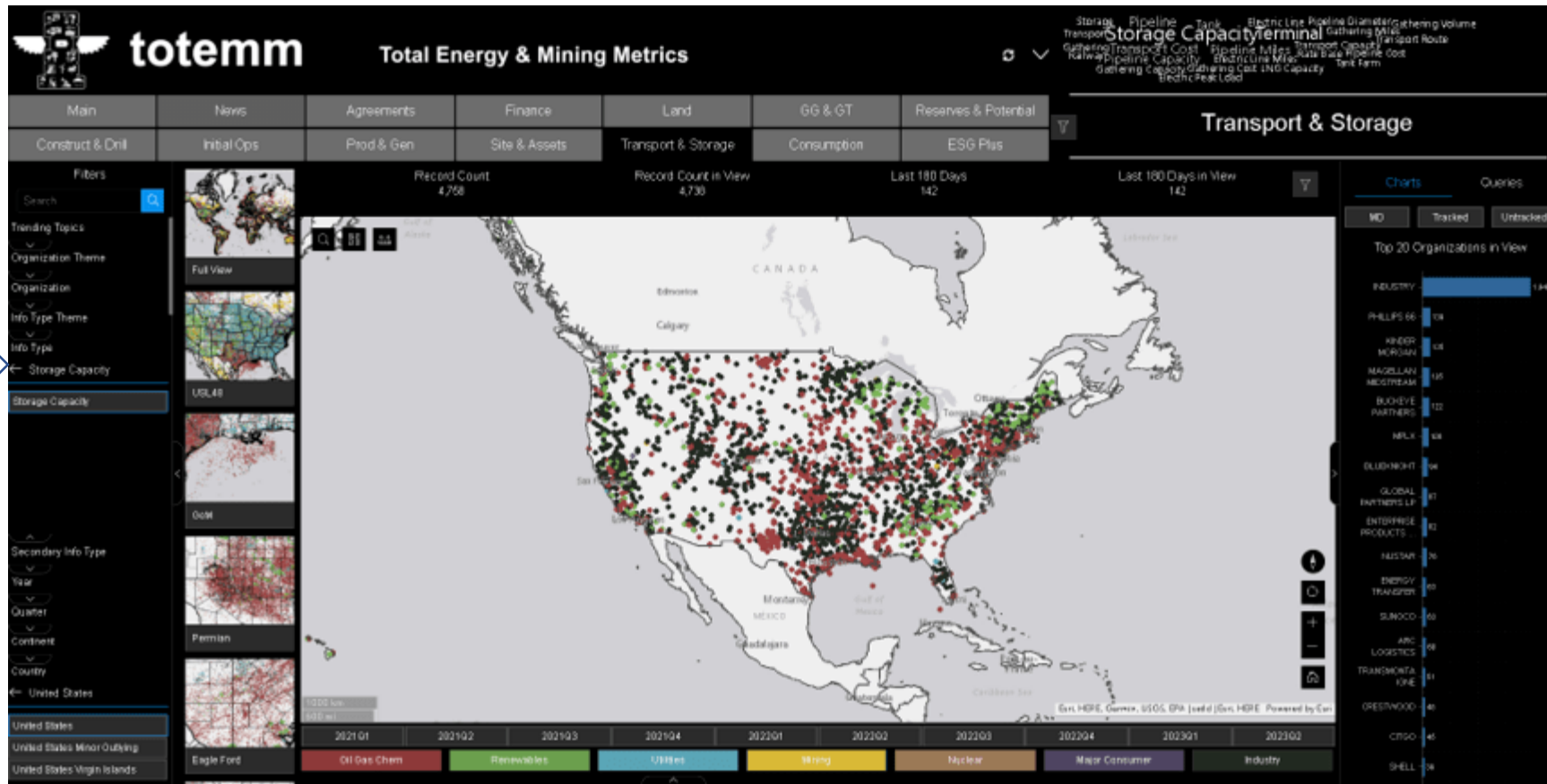
Select the USL48 bookmark

Search and select United States from the country filter



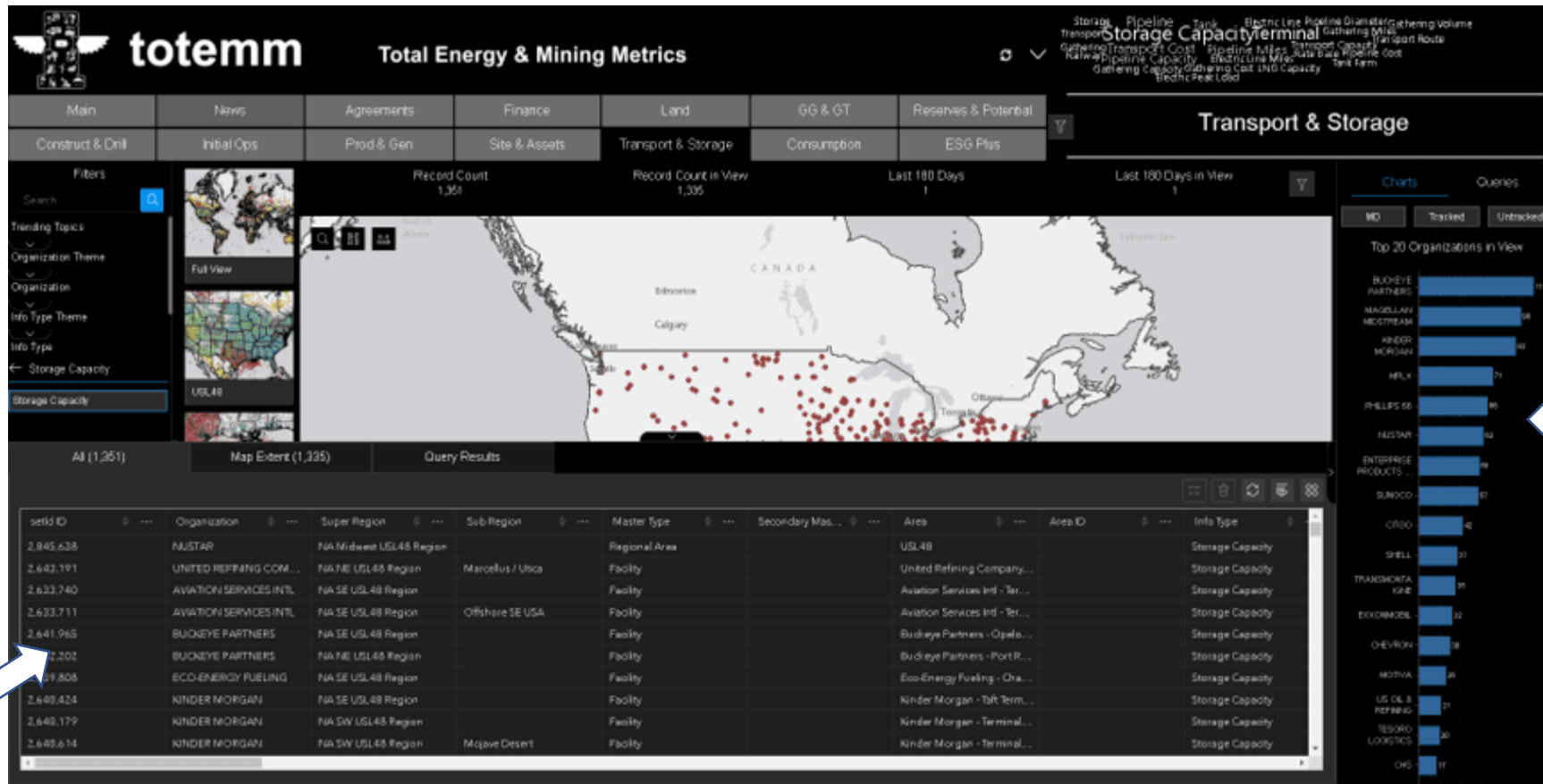


# TOTEMM Web Mapping Experience – Transport & Storage





# TOTEMM Web Mapping Experience – Transport & Storage



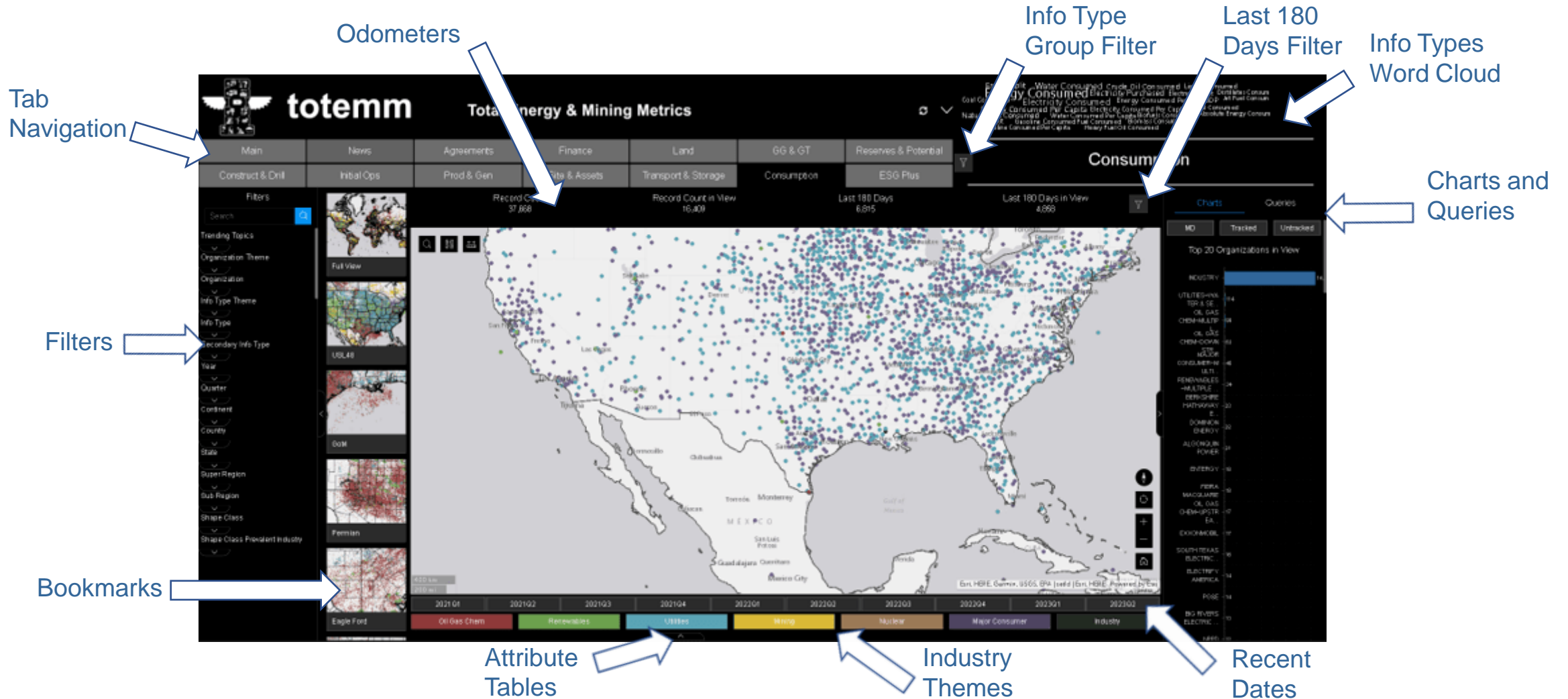
Review the charts

Review the attribute table

## TOTEMM Web Mapping Experience – Consumption

## Purpose

See resource consumption by organization and area over time



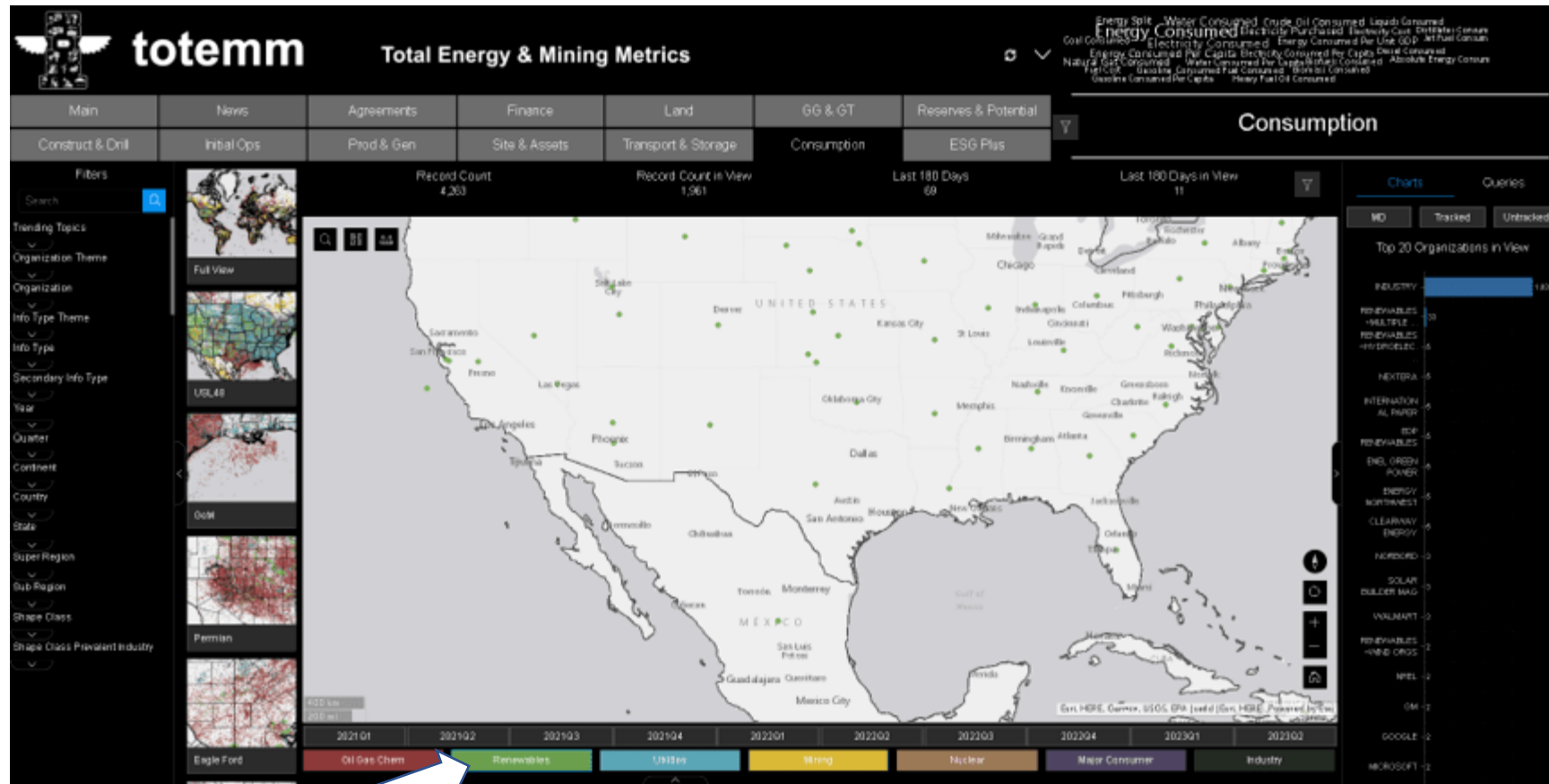
## User Stories

1. How much energy is being consumed from renewable sources?
2. What is reported electricity cost over time in the United States?
3. **What are organization's energy consumption splits from renewable sources in the United States?**
4. What are organization's global energy consumption split?
5. What new policy / rule has been passed about resource consumption recently?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Web Mapping Experience – Consumption

What are organization's energy consumption splits from renewable sources in the United States?



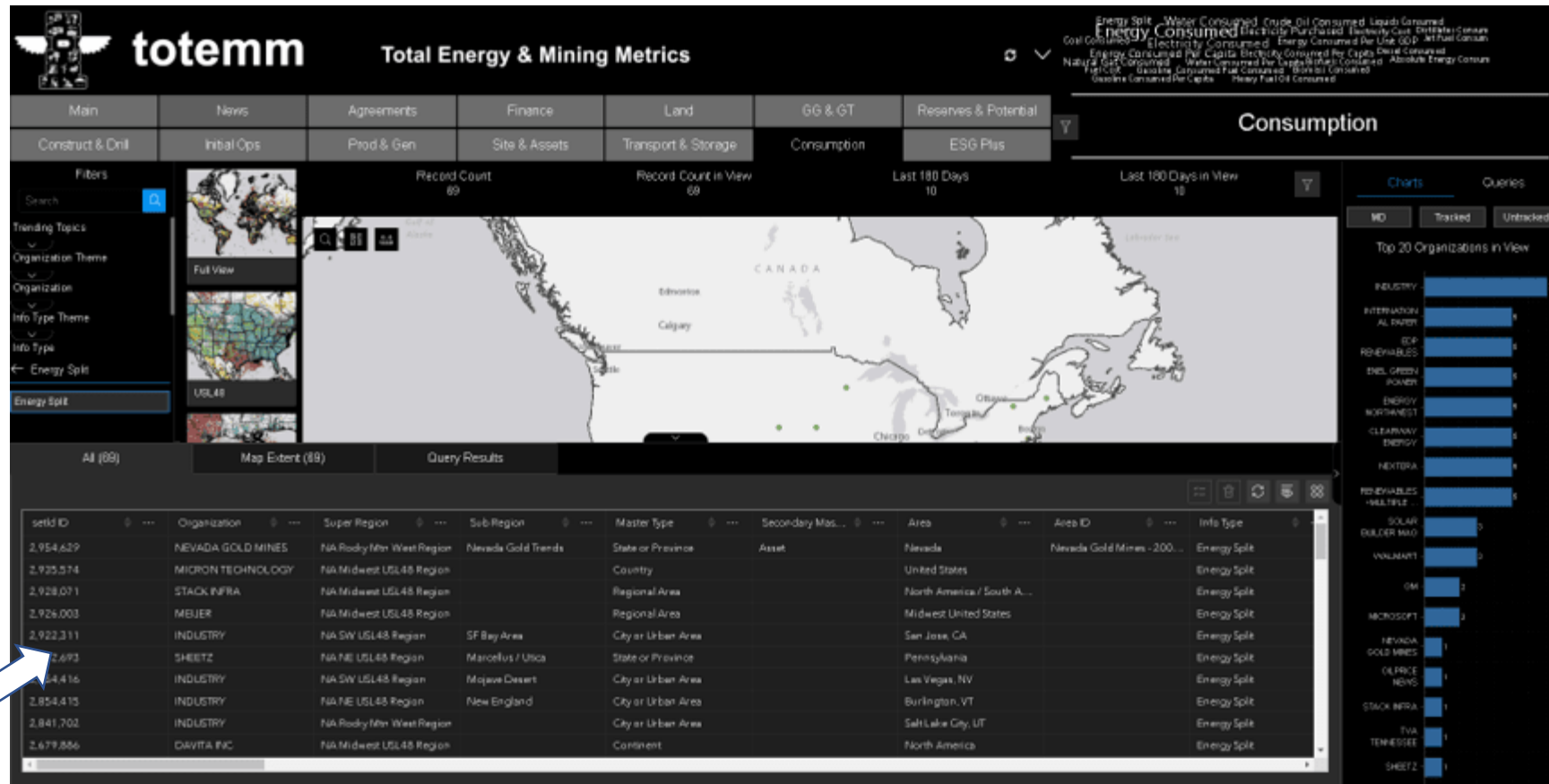
Click the renewables industry theme button



The screenshot shows the 'totemm' Total Energy & Mining Metrics dashboard. The top navigation bar includes tabs for Main, News, Agreements, Finance, Land, GG & GT, Reserves & Potential, Construct & Drill, Initial Ops, Prod & Gen, Site & Assets, Transport & Storage, Consumption, and ESG Plus. The main content area displays a map of the United States and Mexico, with a sidebar on the left showing filters for Organization, Info Type, and Energy Split. The right sidebar contains a 'Charts' section with a bar chart titled 'Top 20 Organizations in View' showing various energy-related metrics for different companies.



# TOTEMM Web Mapping Experience – Consumption

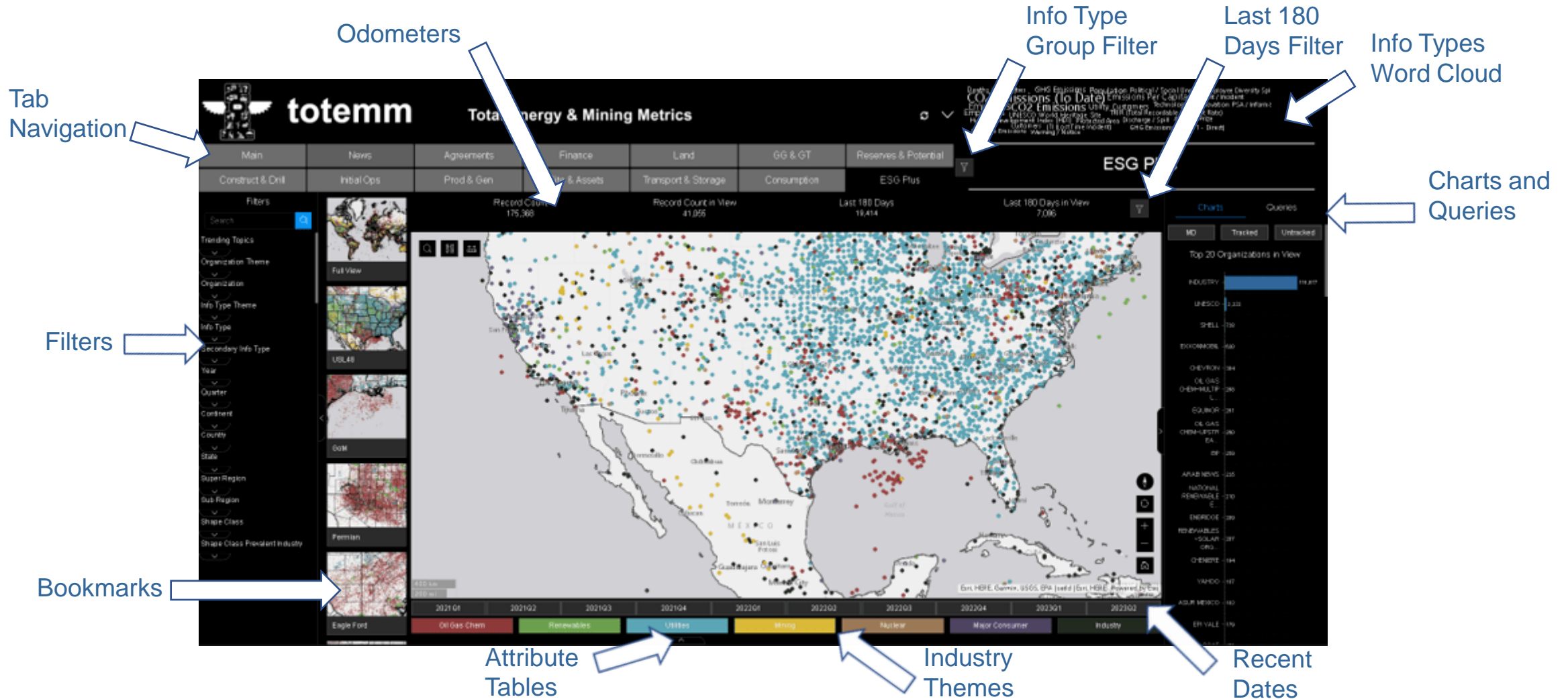


Review the map and attribute table

# TOTEMM Web Mapping Experience – ESG Plus

## Purpose

See emissions / emissions reduction, spill / waste, incidents / events, company rankings, diversity, and other ESG metrics by organization and area



## User Stories

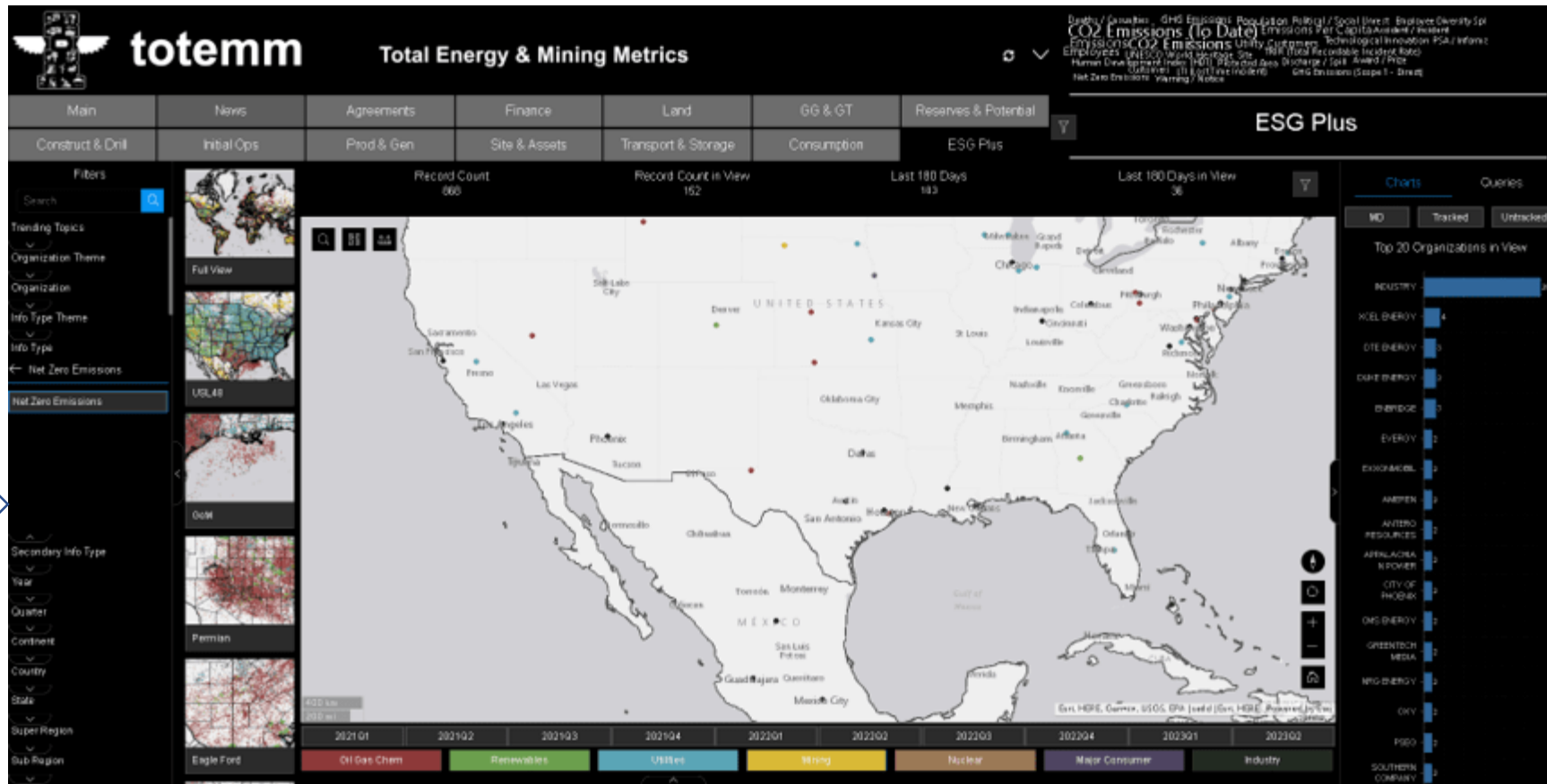
1. Where is Shell reducing emissions?
2. What COVID-19 related incidents occurred recently?
3. Where have Amplify Energy had a spill or leak recently?
4. What are some ESG sustainability ranking / scores for the United States?
5. **In the United States, what organizations have set target net zero emissions?**

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Web Mapping Experience – ESG Plus

**In the United States, what organizations have set target net zero emissions and what type?**

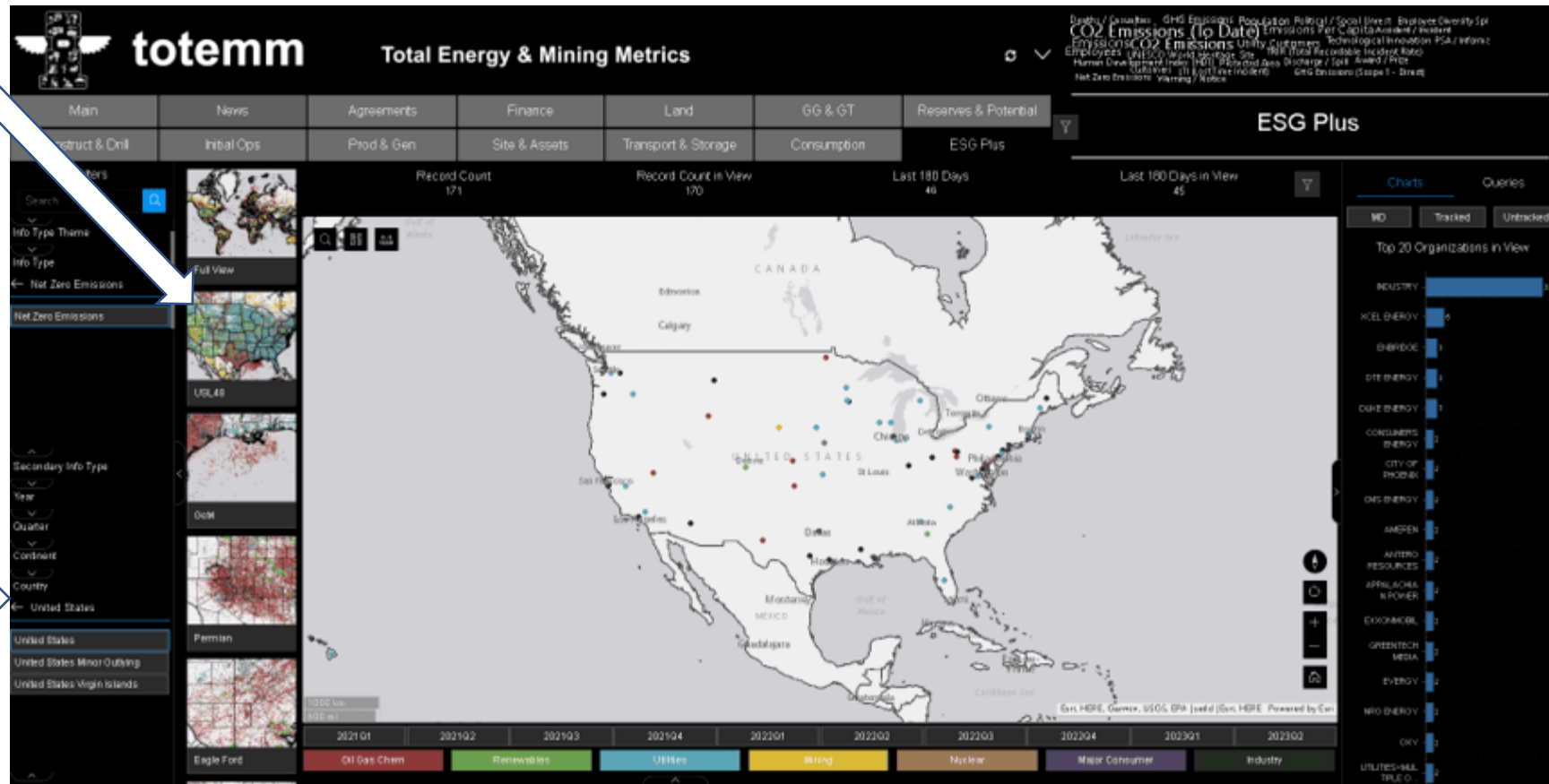
Search and select  
net zero emissions  
in the info type filter



# TOTEMM Web Mapping Experience – ESG Plus

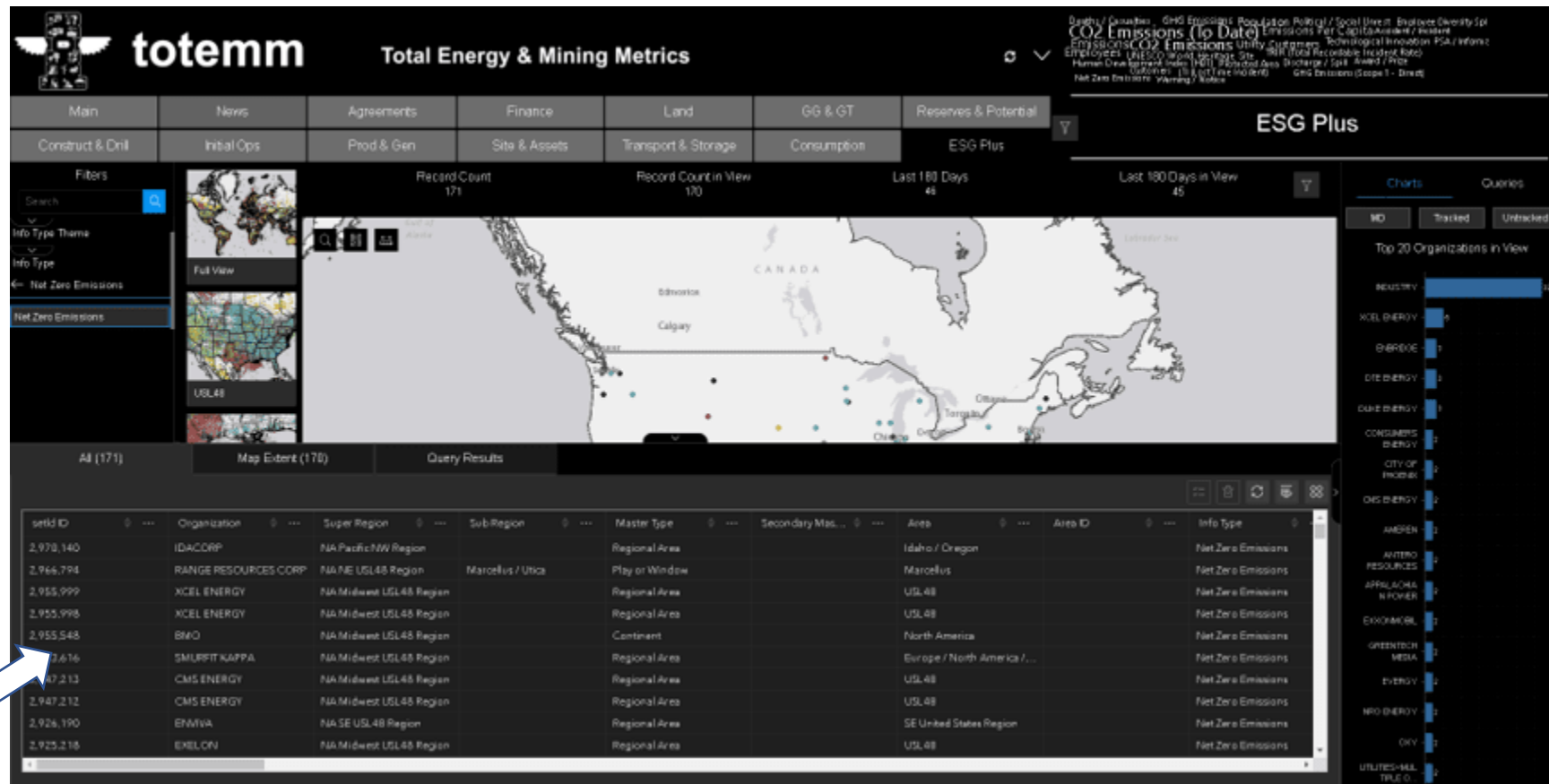
Select the USL48 bookmark

Search and select United States from the country filter





# TOTEMM Web Mapping Experience – ESG Plus



Review the map  
or attribute table



Power BI is a cloud-based Microsoft application which allows graphing and charting of complex data. Filters can be applied to focus analysis and discover new relationships.

The SETLD TOTEMM Power BI template is a live view into our daily updated datastore.

## Advantages of Power BI

- Out-of-the-Box / Ubiquitous
- Displays data in a familiar graphical format
- Allows for easy filtering on multiple fields
- Ability to export findings in a variety of formats

## Purpose

Navigation to and from lifecycle and utilitarian tabs w/ links to user guide and other interface offerings

**setld**

**information  
solutions**

**Total Energy & Mining  
Metrics  
Data Product  
(TOTEMM)**

Links to  
interface,  
documentation,  
and tutorials



[TOTEMM Data Product Web Mapping Experience](#)  
[TOTEMM Data Product User Guide](#)  
[TOTEMM Data Product One Pager](#)  
[TOTEMM Data Product Detail](#)

Main	News
Agreements	Finance
Land	GG & GT
Reserves & Potential	Construct & Drill
Initial Ops	Prod & Gen
Site & Assets	Transport & Storage
Consumption	ESG Plus
Comparison	

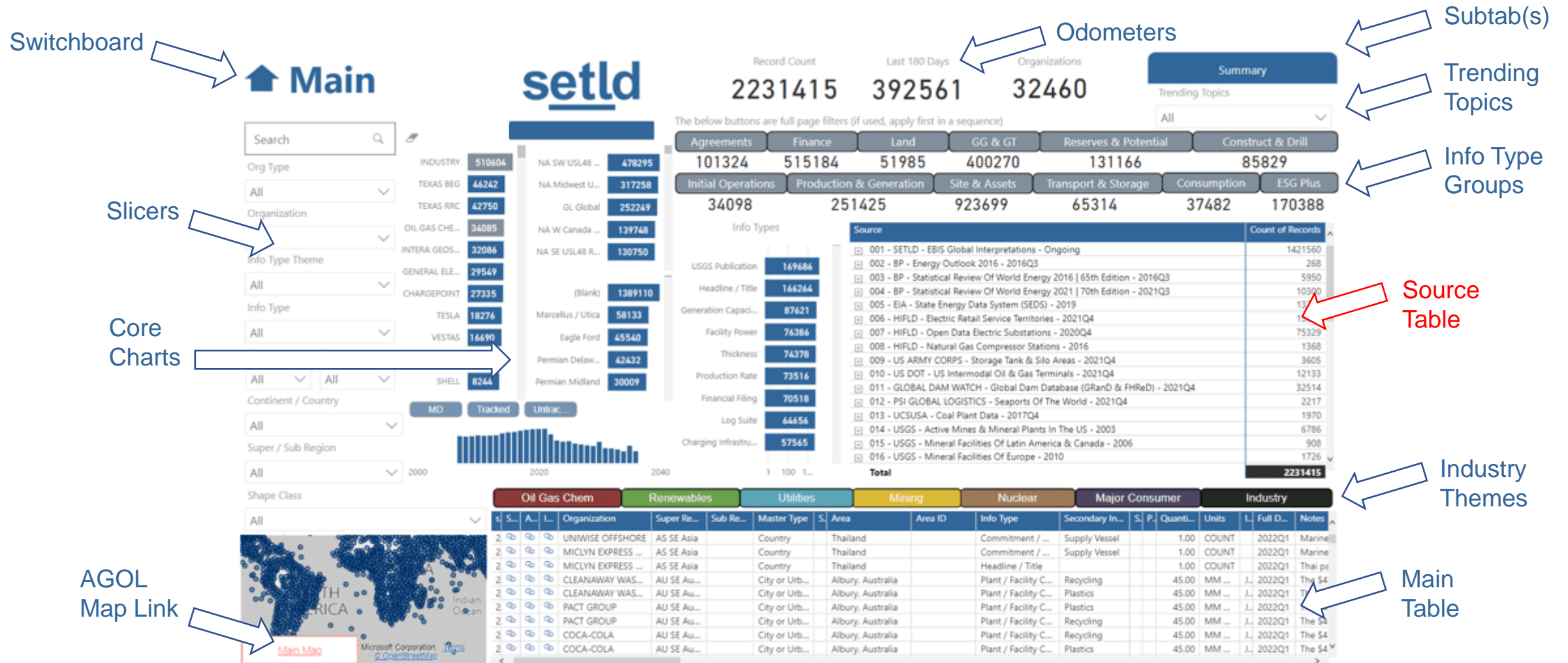
Navigate to  
each tab



# TOTEMM Power BI – Main

## Purpose

General tab including all records to provide users with an overall understanding of basic data clusters and use cases to be expanded on in the coming tabs



## User Stories

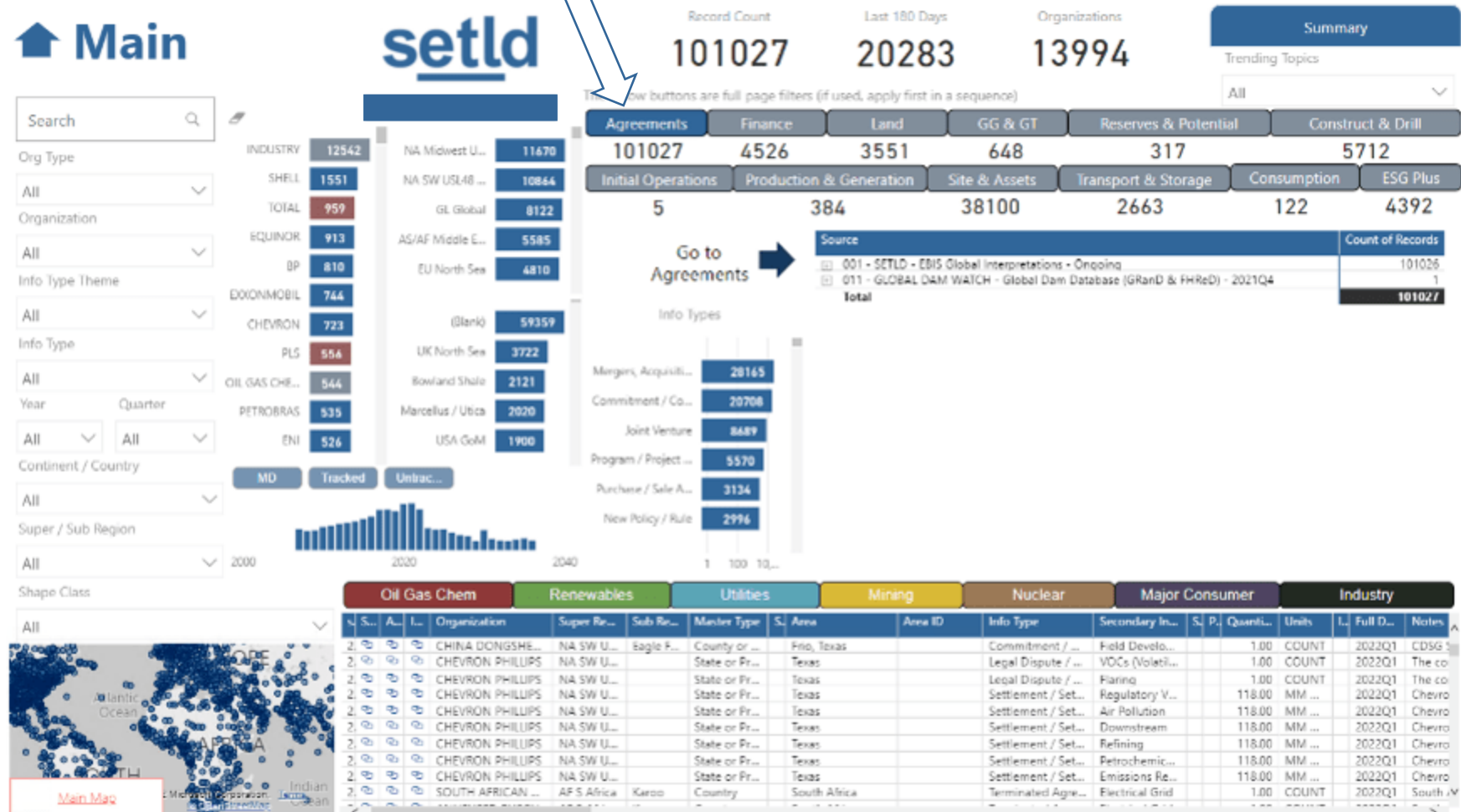
1. How many records do we have for Shell?
2. How many renewables records do we have for Shell?
- 3. What kind of agreements has Shell made recently?**
4. What organizations have interest in the Permian?
5. What sources make up our Tesla record collection?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Power BI – Main

What kind of agreements has Shell made recently?

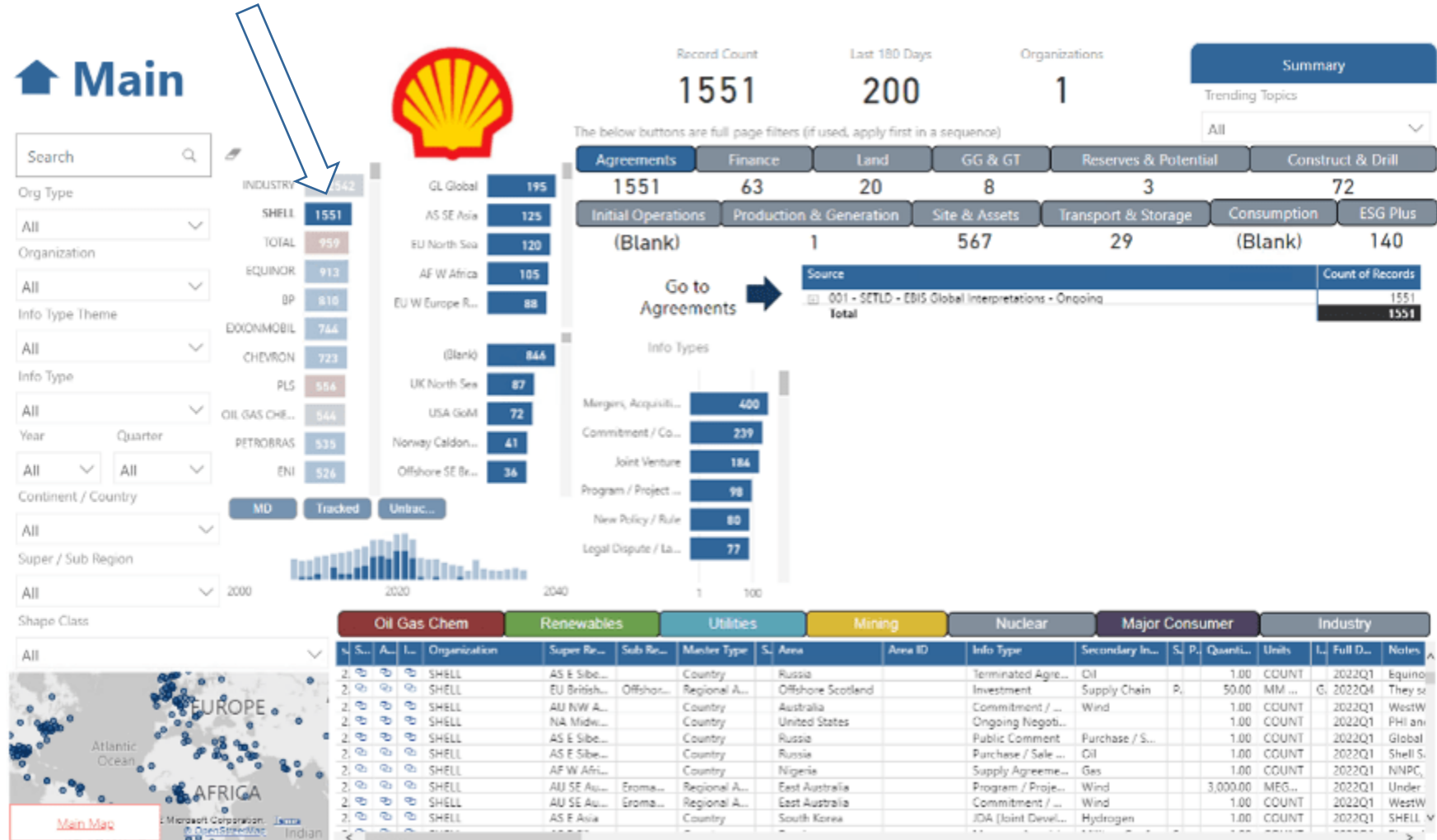
Click the agreements info type group button






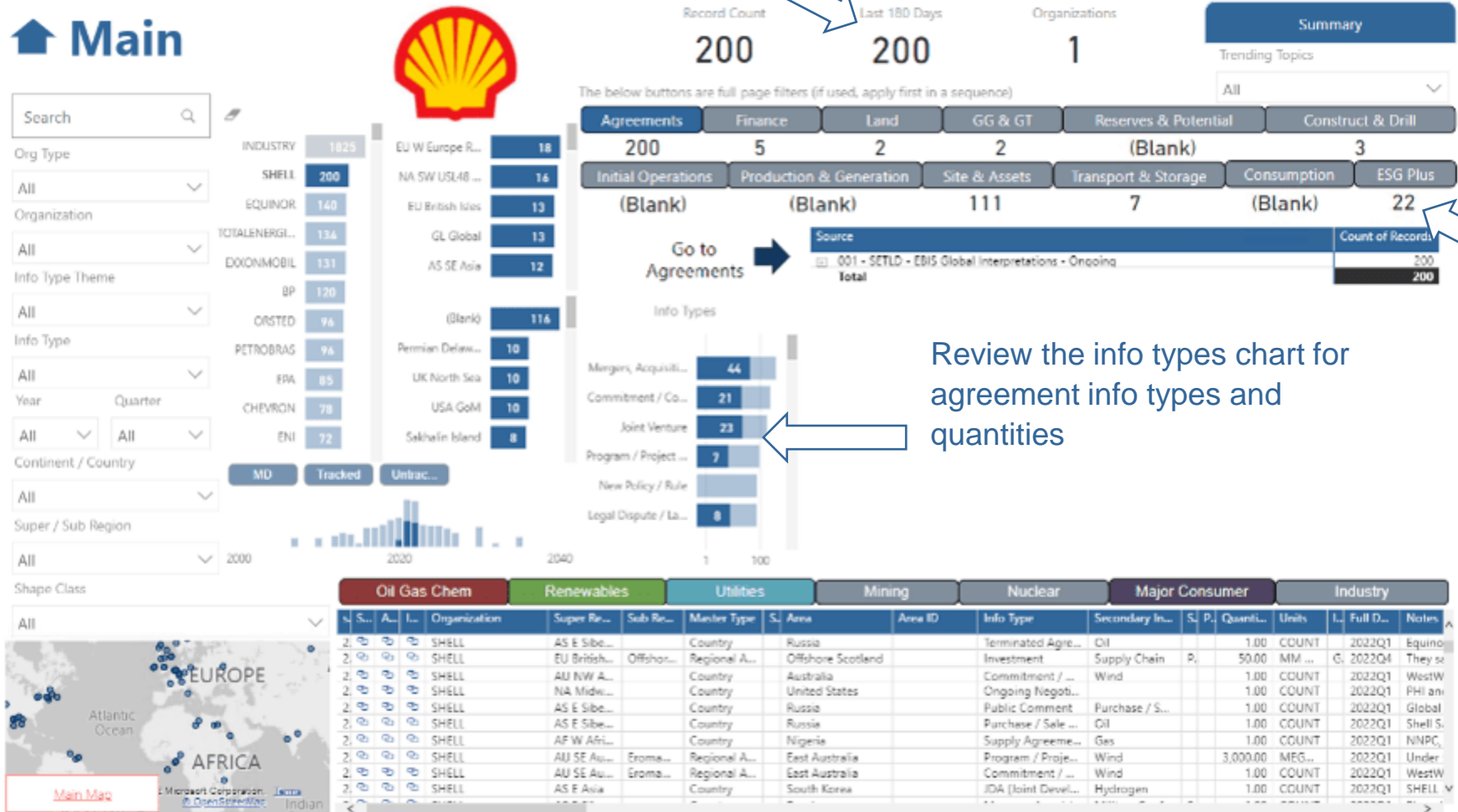
# TOTEMM Power BI – Main

Select Shell from the organization chart



## TOTEMM Power BI – Main

Hold CTRL and click the last 180 days odometer



The screenshot shows a table with the following data:

Source	Count of Record.
001 - SETLD - EBIS Global Interpretations - Ongoing	200
<b>Total</b>	<b>200</b>

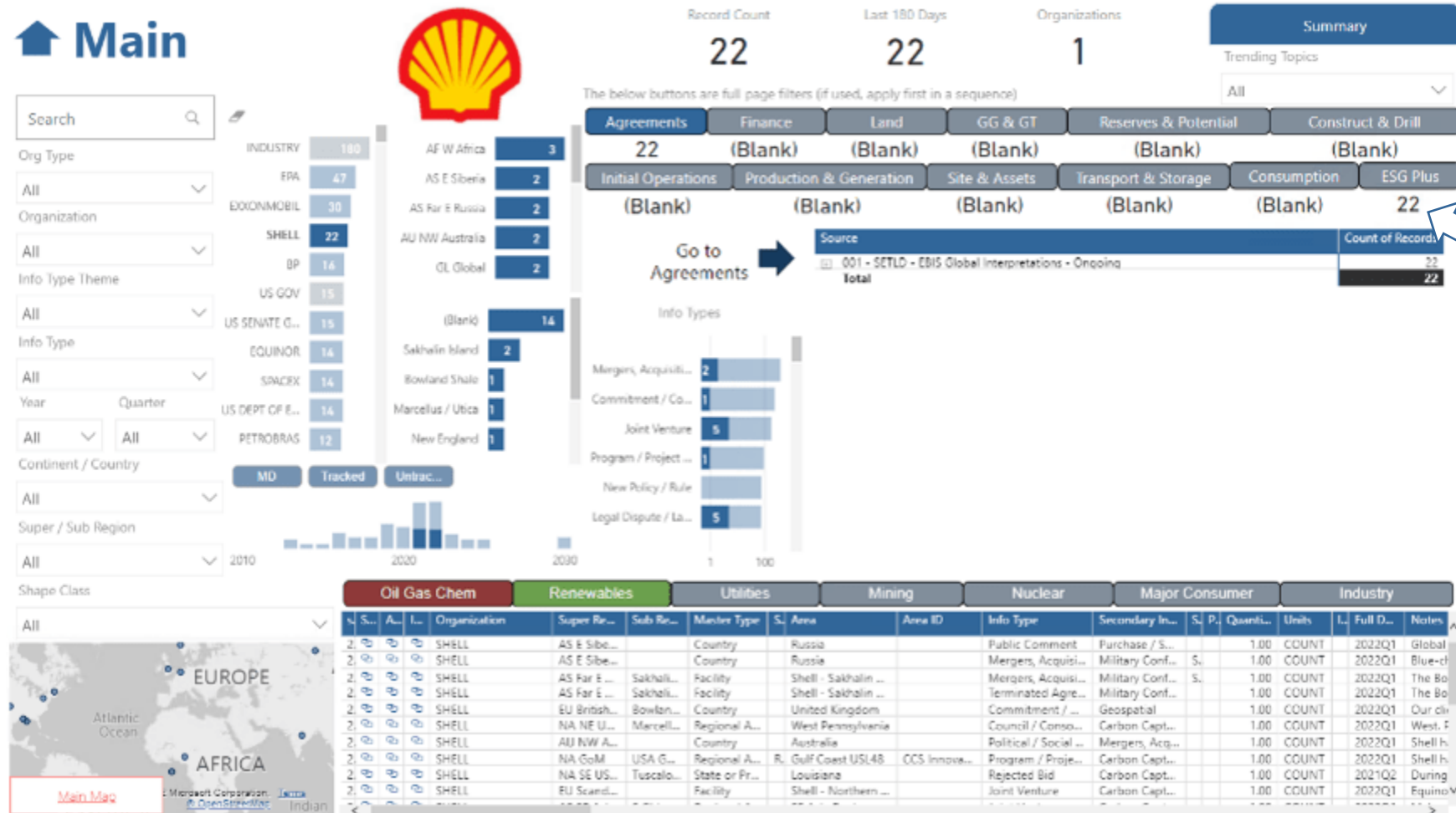
Annotations include:

- A blue arrow pointing to the "Source" header.
- A blue arrow pointing to the "Count of Record." header.
- A blue arrow pointing to the "001 - SETLD - EBIS Global Interpretations - Ongoing" row.
- A blue arrow pointing to the "Total" row.

Text annotations include:

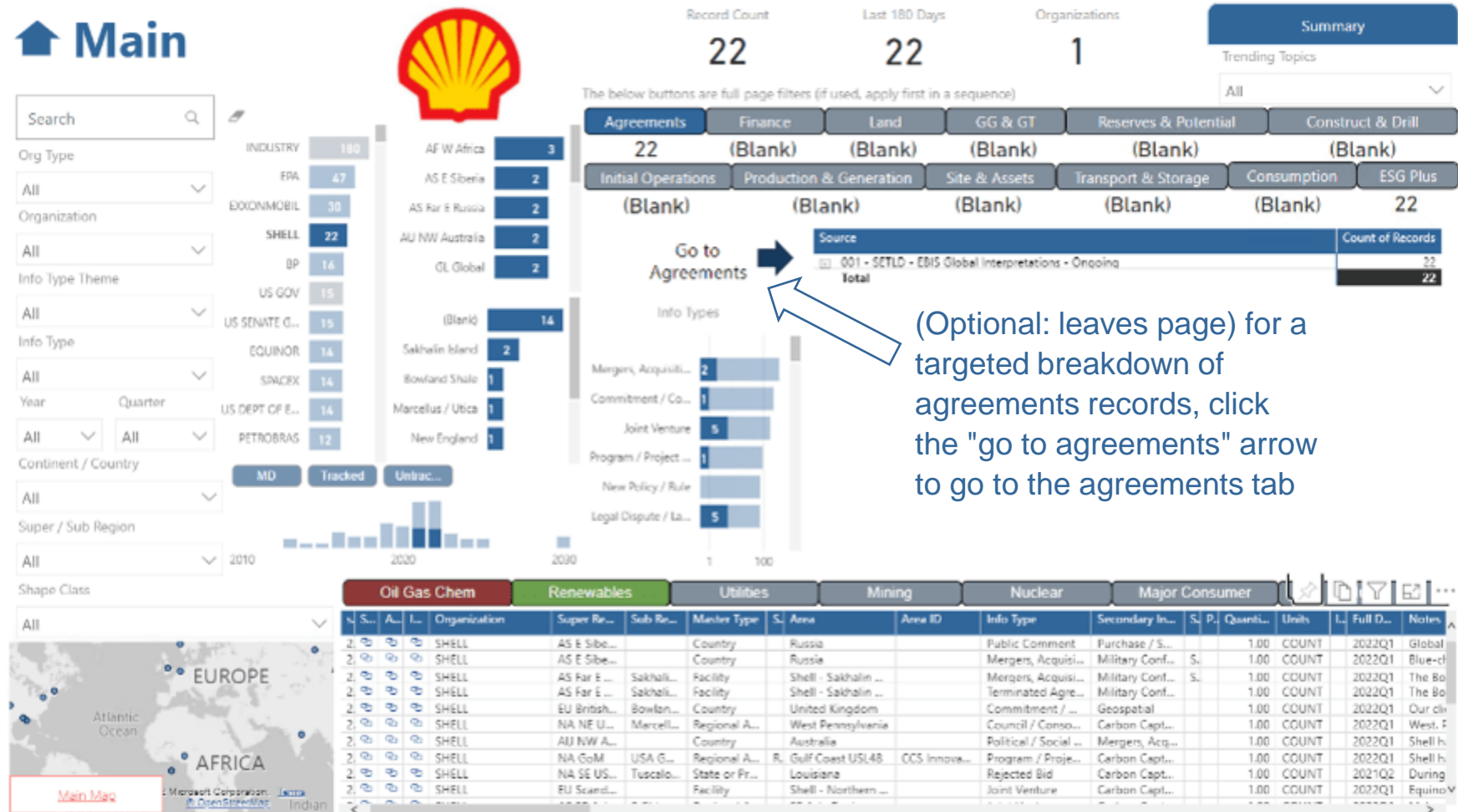
- "Review the info types chart for agreement info types and quantities" (pointing to the "001 - SETLD - EBIS Global Interpretations - Ongoing" row).
- "Review group of learn the recent a XX of the ESG pl" (pointing to the "Total" row).

# TOTEMM Power BI – Main



Hold CTRL and click the number below ESG plus

# TOTEMM Power BI – Main



Export main table and review XX agreements related to ESG plus

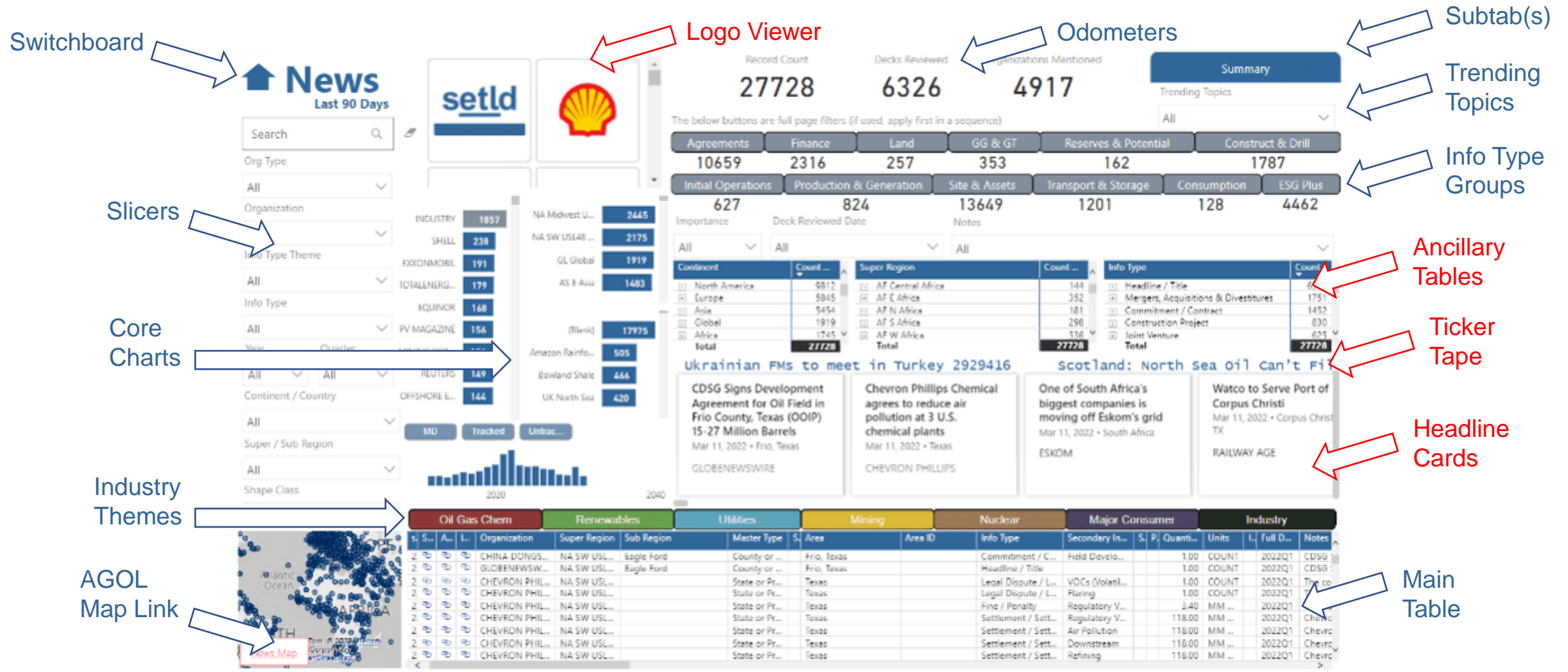
- Add a comment
- Chat in Teams
- Export data
- Show as a table
- Spotlight
- Get insights
- Sort descending
- Sort ascending
- Sort by

(Optional: leaves page) for a targeted breakdown of agreements records, click the "go to agreements" arrow to go to the agreements tab

# TOTEMM Power BI – News

## Purpose

News interpreted within the last 90 days with headline cards (and associated records), ticker tape and location / info type tables for easy consumption of event details consolidated by area and organization



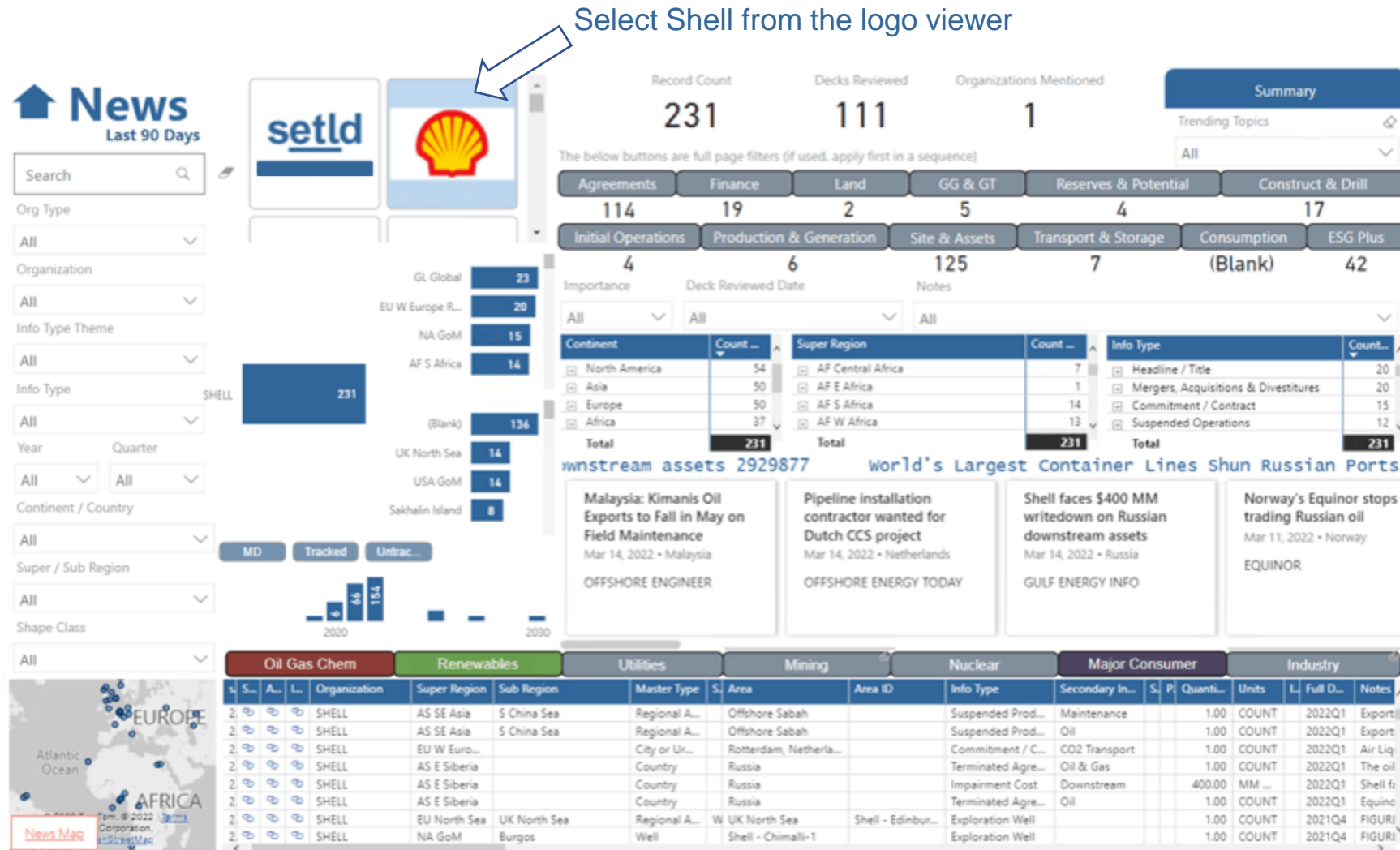
## User Stories

1. **What has Shell been doing in the last 90 days?**
2. What recent oil & gas ESG events occurred in West Africa?
3. What recent mergers, acquisitions & divestitures events in the Permian?
4. Where are recent construct & drill project locations?
5. What recent records involve hydrogen?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases



## What has Shell been doing in the last 90 days?



# TOTEM Power BI – News

**News**  
Last 90 Days

Search

Org Type: All

Organization: All

Info Type Theme: All

Info Type: All

Year: All, Quarter: All

Continent / Country: All

Super / Sub Region: All

Shape Class: All

Record Count: 2, Decks Reviewed: 1, Organizations Mentioned: 1

Summary

Trending Topics: All

The below buttons are full page filters (if used, apply first in a sequence)

Agreements: 1, Finance: 1, Land: (Blank), GG & GT: (Blank), Reserves & Potential: (Blank), Construct & Drill: (Blank)

Initial Operations: (Blank), Production & Generation: (Blank), Site & Assets: 2, Transport & Storage: (Blank), Consumption: (Blank), ESG Plus: (Blank)

Importance: All, Deck Reviewed Date: All, Notes: All

Continent: Asia (2), Total: 2

Super Region: AS E Siberia (2), Total: 2

Info Type: Impairment Cost (1), Terminated Agreement (1), Total: 2

AS E Siberia: 2

MD, Tracked, Untrac...

2020, 2030

Oil Gas Chem, Renewables, Utilities, Mining, Nuclear, Major Consumer, Industry

Shell faces \$400 MM writedown on Russian downstream assets  
Mar 14, 2022 • Russia  
GULF ENERGY INFO

Norway's Equinor trading Russian oil  
Mar 11, 2022 • Norway  
EQUINOR

S...	A...	L...	Organization	Super Region	Sub Region	Master Type	S...	Area	Area ID	Info Type	Secondary In...	S...	P...	Quanti...	Units	L...	Full D...	Notes
2			SHELL	AS E Siberia		Country		Russia		Terminated Agre...	Oil & Gas			1.00	COUNT	2022Q1	The oil n	
2			SHELL	AS E Siberia		Country		Russia		Impairment Cost	Downstream			400.00	MM ...	2022Q1	Shell fac	

News Map

Tom, © 2022 Corporation

Click a headline card to see all organizations and records associated with that article

# TOTEM Power BI – News

Deselect Shell from the logo viewer to see all records associated with that article

**News**  
Last 90 Days

Search

Org Type: All

Organization: All

Info Type Theme: All

Info Type: All

Year: All, Quarter: All

Continent / Country: All

Super / Sub Region: All

Shape Class: All

Record Count: 5, Decks Reviewed: 1, Organizations Mentioned: 4

Summary

Trending Topics: All

The below buttons are full page filters (if used, apply first in a sequence)

Agreements: 3, Finance: 1, Land: (Blank), GG & GT: (Blank), Reserves & Potential: (Blank), Construct & Drill: (Blank)

Initial Operations: (Blank), Production & Generation: (Blank), Site & Assets: 4, Transport & Storage: (Blank), Consumption: (Blank), ESG Plus: (Blank)

Importance: All, Deck Reviewed Date: All, Notes: All

Continent: Asia (5), Total: 5

Super Region: AS E Siberia (5), Total: 5

Info Type: Terminated Agreement (3), Headline / Title (1), Impairment Cost (1), Total: 5

SHLL: 2, AS E Siberia: 5

GAZPROM: 1

GULF ENERG...: 1

NORD STRE...: 1

(Blank): 5

MD, Tracked, Untrac...

2020, 2040

Resources sells mineral sands  
Image Resource  
12 • Australia  
JET HERALD

Shell faces \$400 MM writedown on Russian downstream assets 2929877  
Mar 14, 2022 • Russia  
GULF ENERGY INFO

Songo Songo Gas Project in Tanzani Begin Constructic  
Mar 14, 2022 • Tanzani  
CONSTRUCTION RE ONLINE

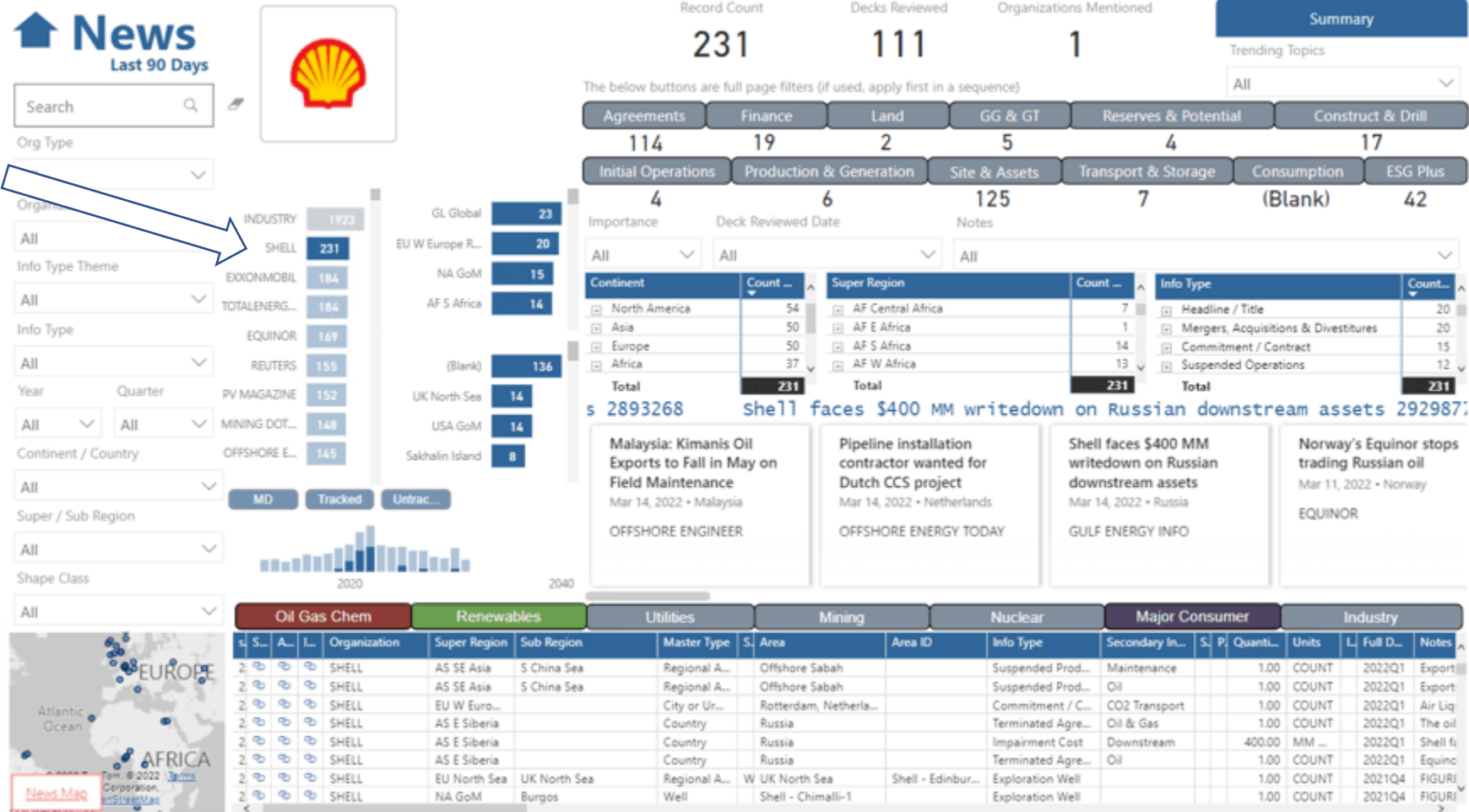
	S...	A...	L...	Organization	Super Region	Sub Region	Master Type	S...	Area	Area ID	Info Type	Secondary In...	S...	P...	Quant...	Units	L...	Full D...	Notes
2				NORD STREAM...	AS E Siberia		Country		Russia		Terminated Agre...	Oil & Gas			1.00	COUNT	2022Q1	The oil n	
2				GAZPROM	AS E Siberia		Country		Russia		Terminated Agre...	Oil & Gas			1.00	COUNT	2022Q1	The oil n	
2				SHELL	AS E Siberia		Country		Russia		Terminated Agre...	Oil & Gas			1.00	COUNT	2022Q1	The oil n	
2				SHELL	AS E Siberia		Country		Russia		Impairment Cost	Downstream			400.00	MM ...	2022Q1	Shell fac	
2				GULF ENERGY L.	AS E Siberia		Country		Russia		Headline / Title				1.00	COUNT	2022Q1	Shell fac	

News Map

Tom, © 2022  
Corporation

# TOTEMM Power BI – News

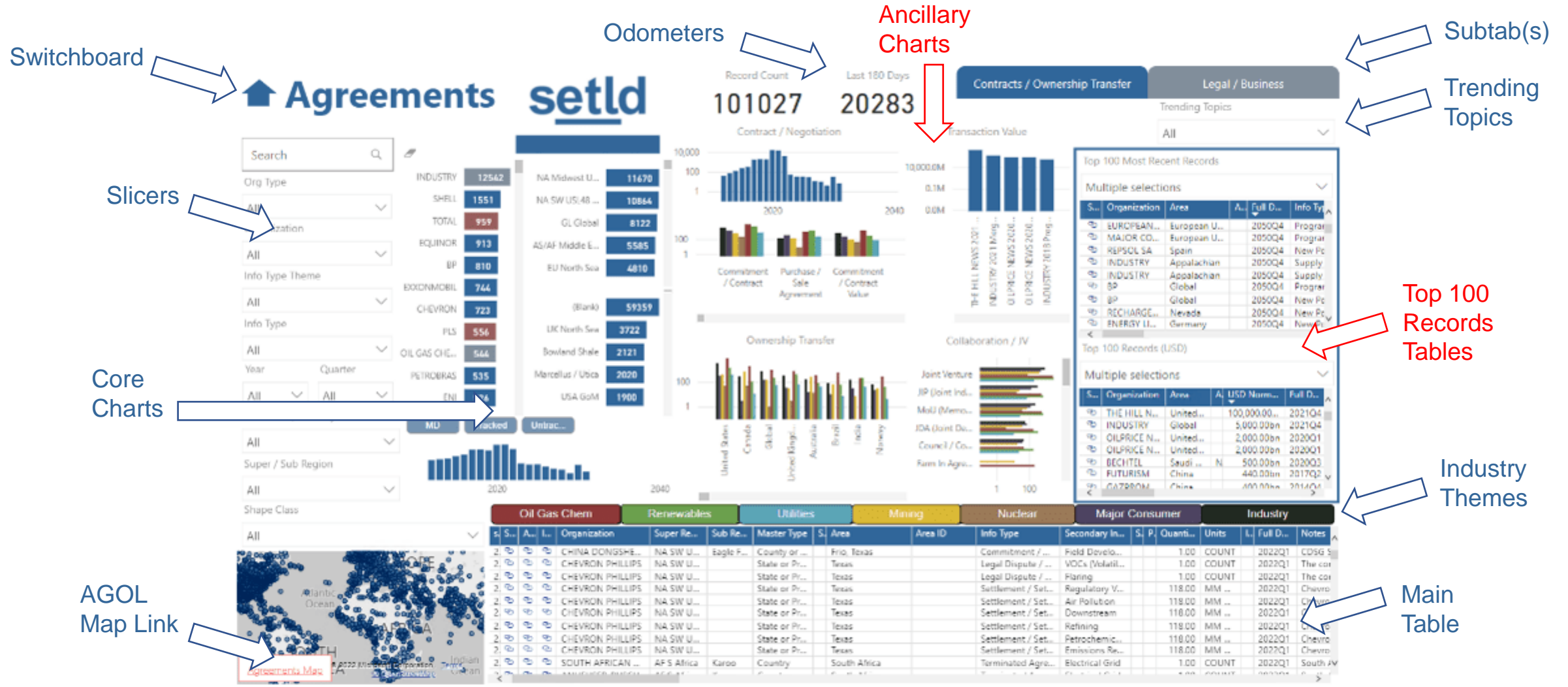
Select Shell to go back to your list



# TOTEMM Power BI – Agreements

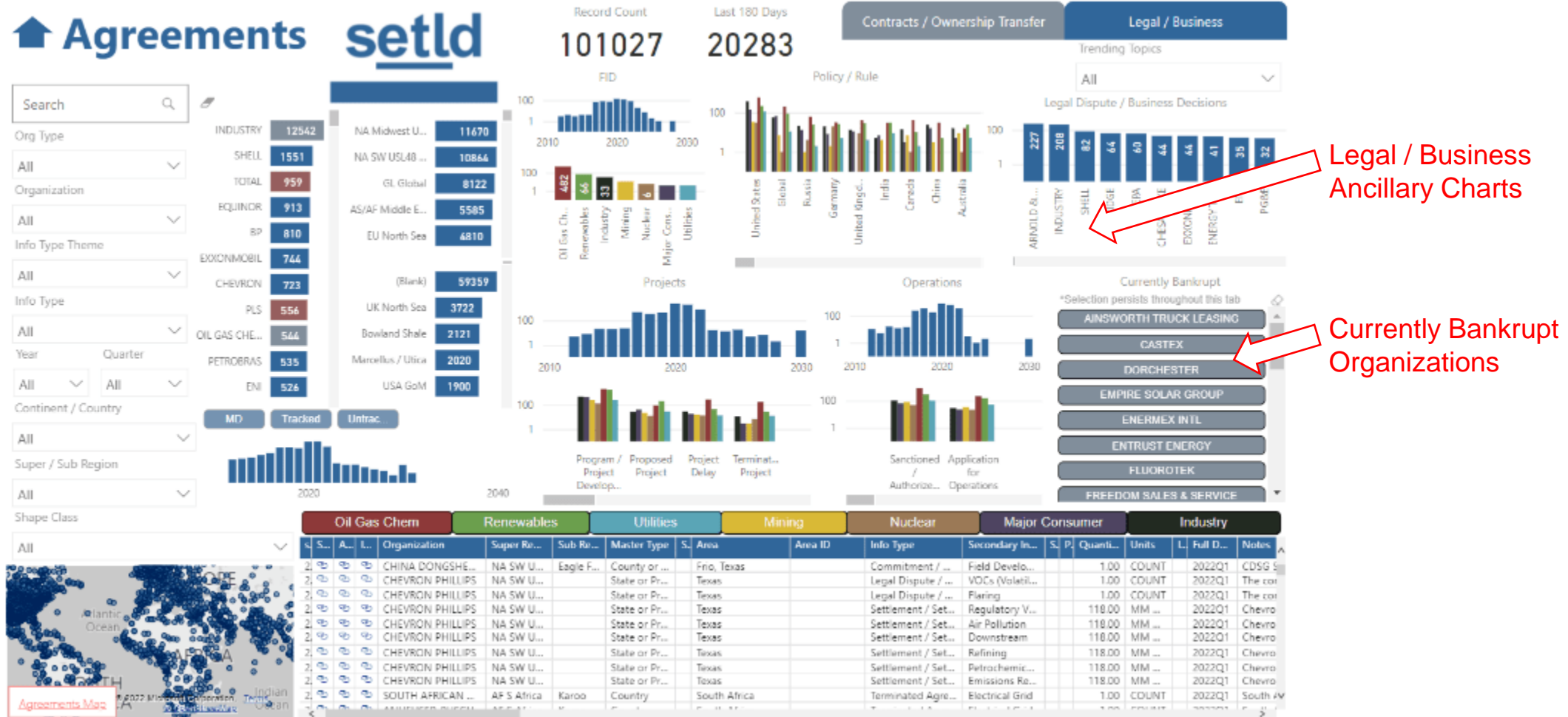
## Purpose

Displays information about contracts, asset transfers, collaborations, legal statuses and policies being made by organizations and governments





# TOTEMM Power BI – Agreements





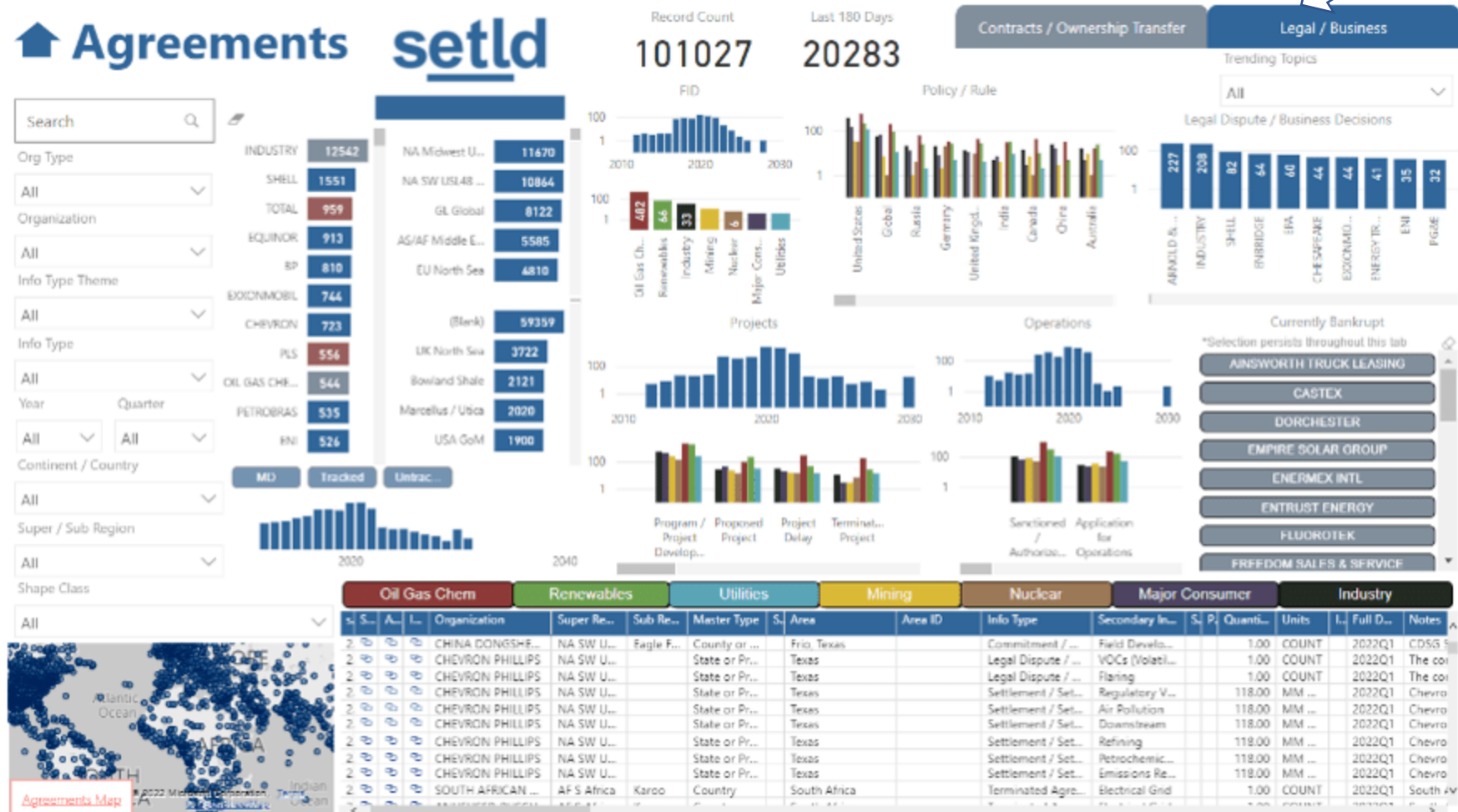
## User Stories

1. In the United States, what renewables agreements have been made in the last 180 days?
2. What types of JVs have people been working under recently and where?
3. **What nuclear policies or rules were recently put in place in Germany?**
4. In 2021, what projects or operations events occurred in the North Sea?
5. In 2021, What commitments / contracts were made by or with Shell?

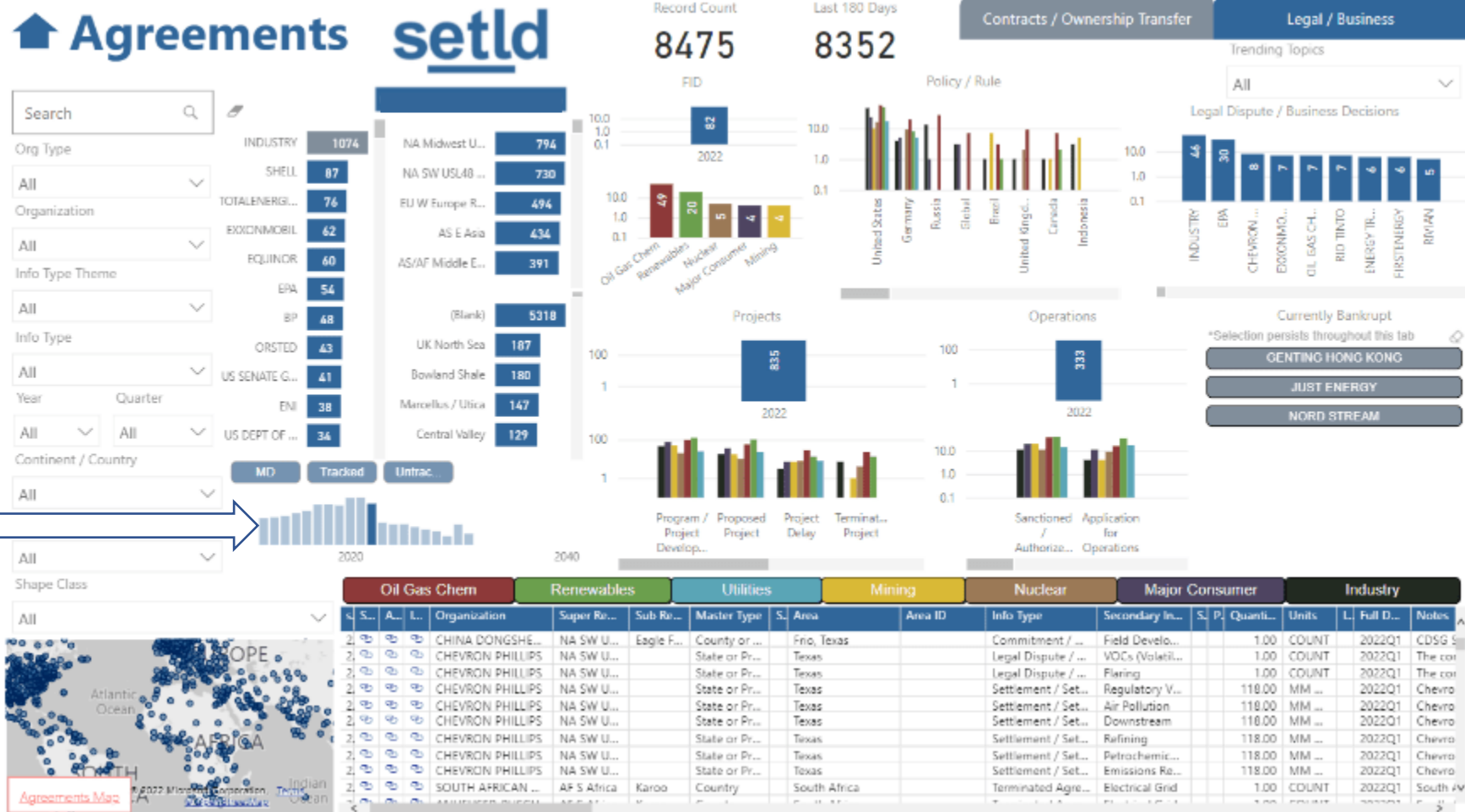
User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

## What nuclear policies or rules were recently put in place in Germany?

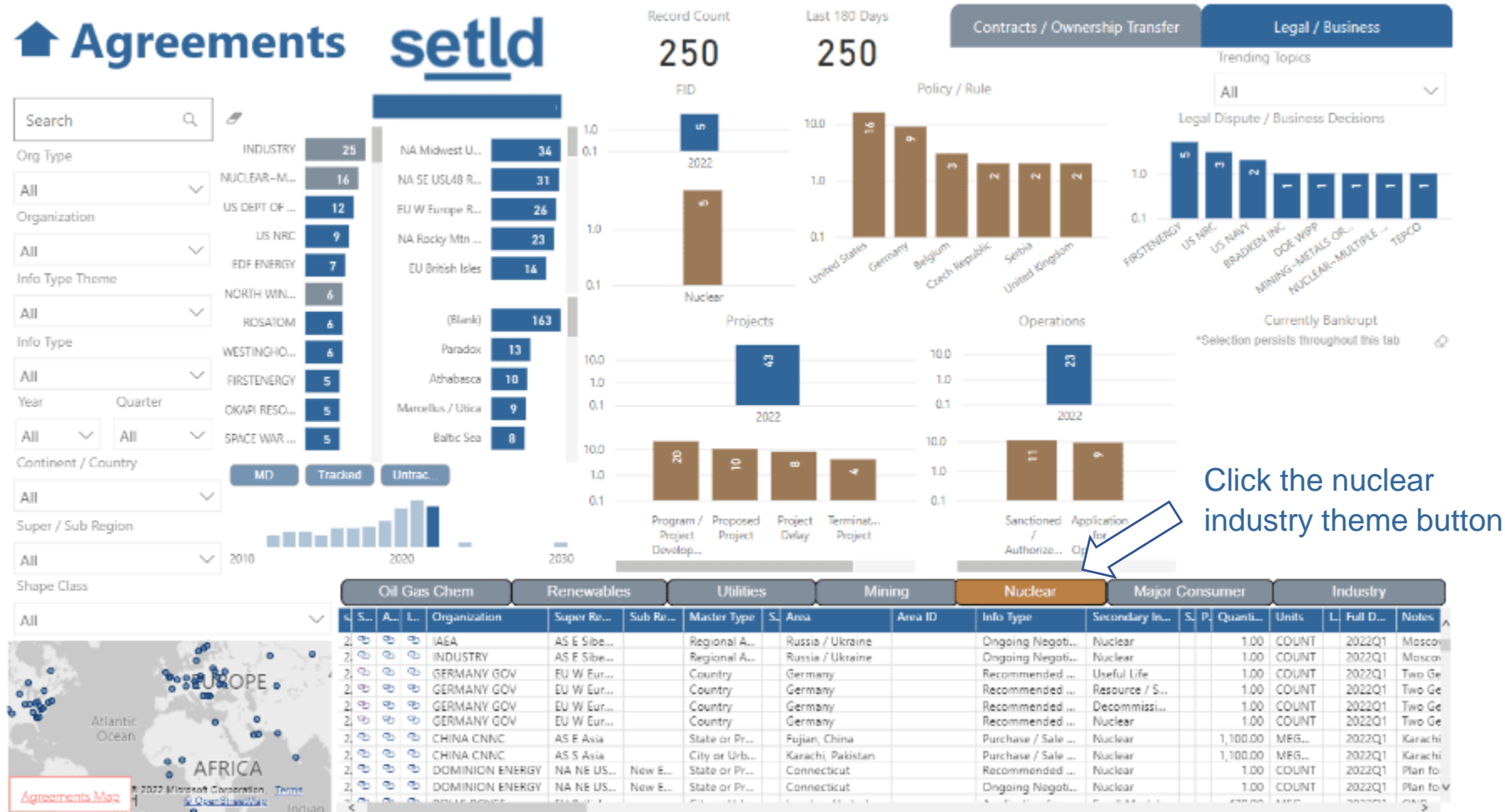
- Switch to the legal / business sub tab



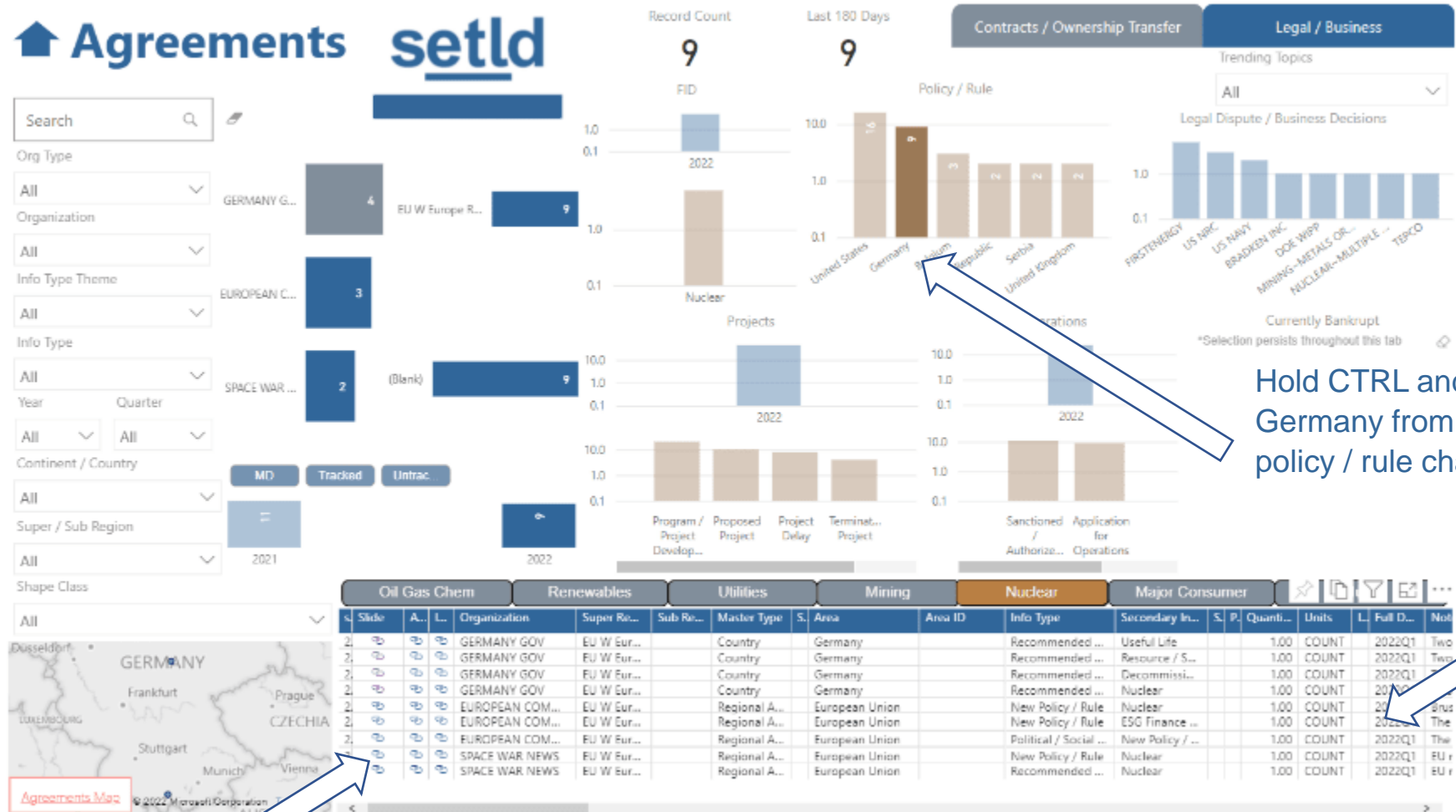
# TOTEMM Power BI – Agreements



# TOTEMM Power BI – Agreements



# TOTEMM Power BI – Agreements

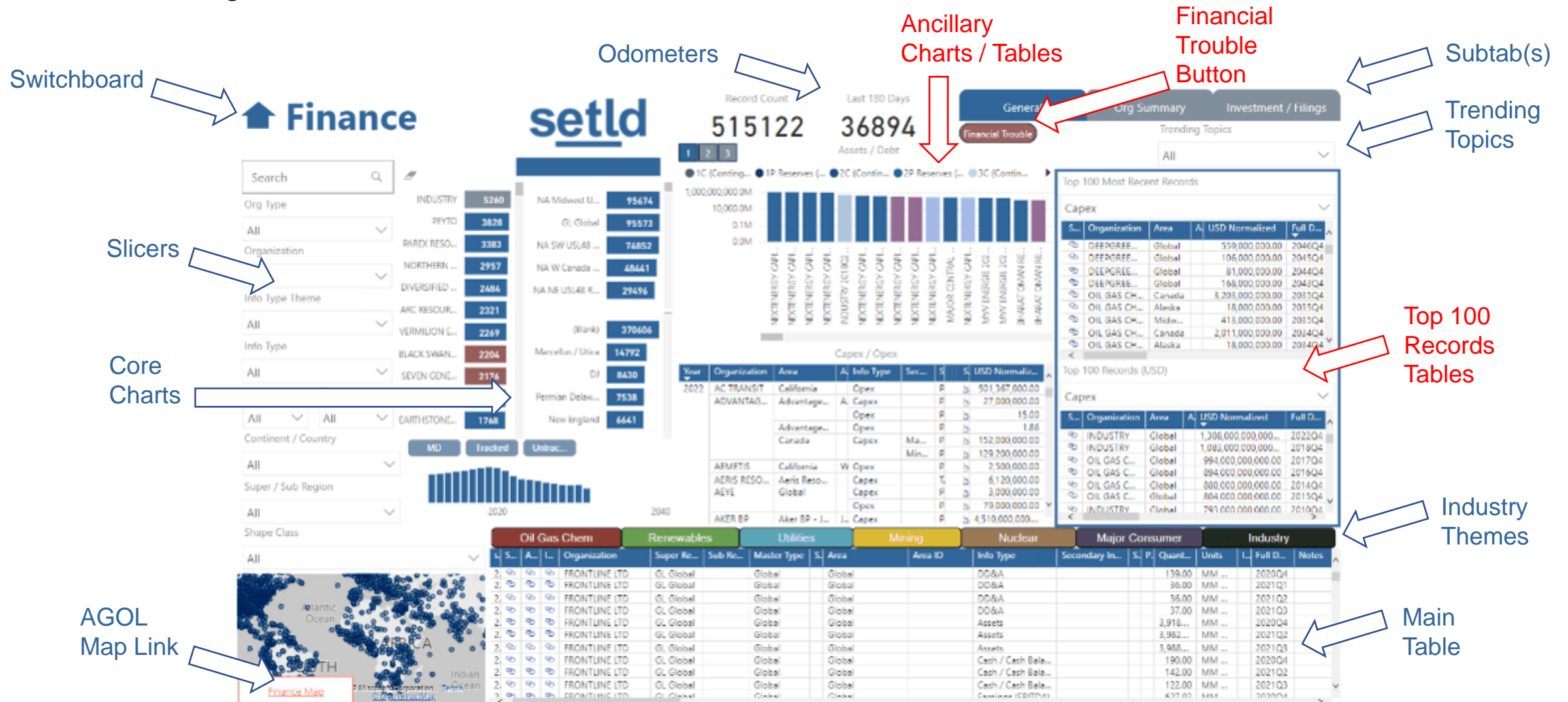


Select a slide link button from the main table to open a .PDF for further reading

# TOTEMM Power BI – Finance

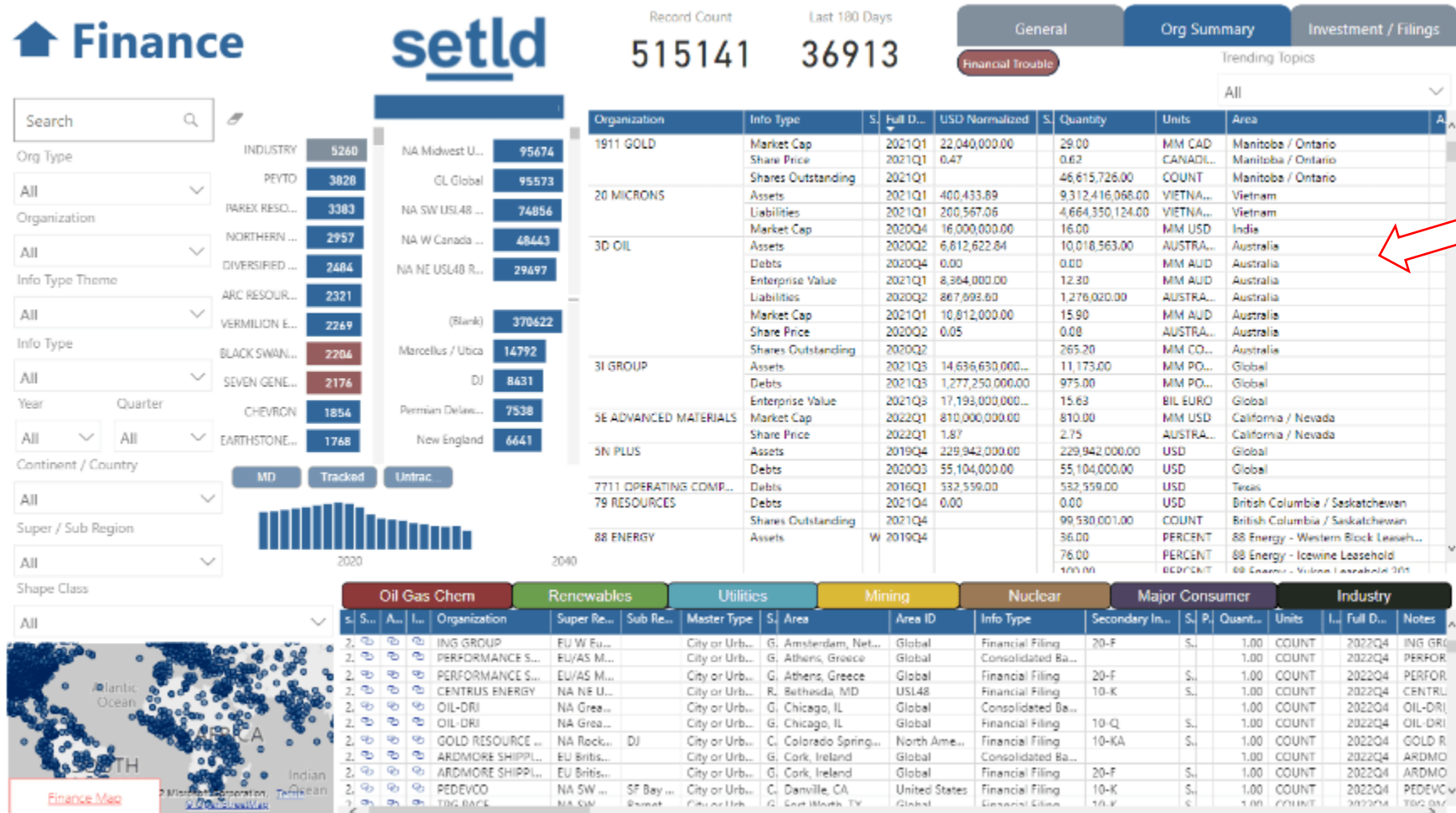
## Purpose

Review the size of an organization, financial filings, investments, returns and general financial health

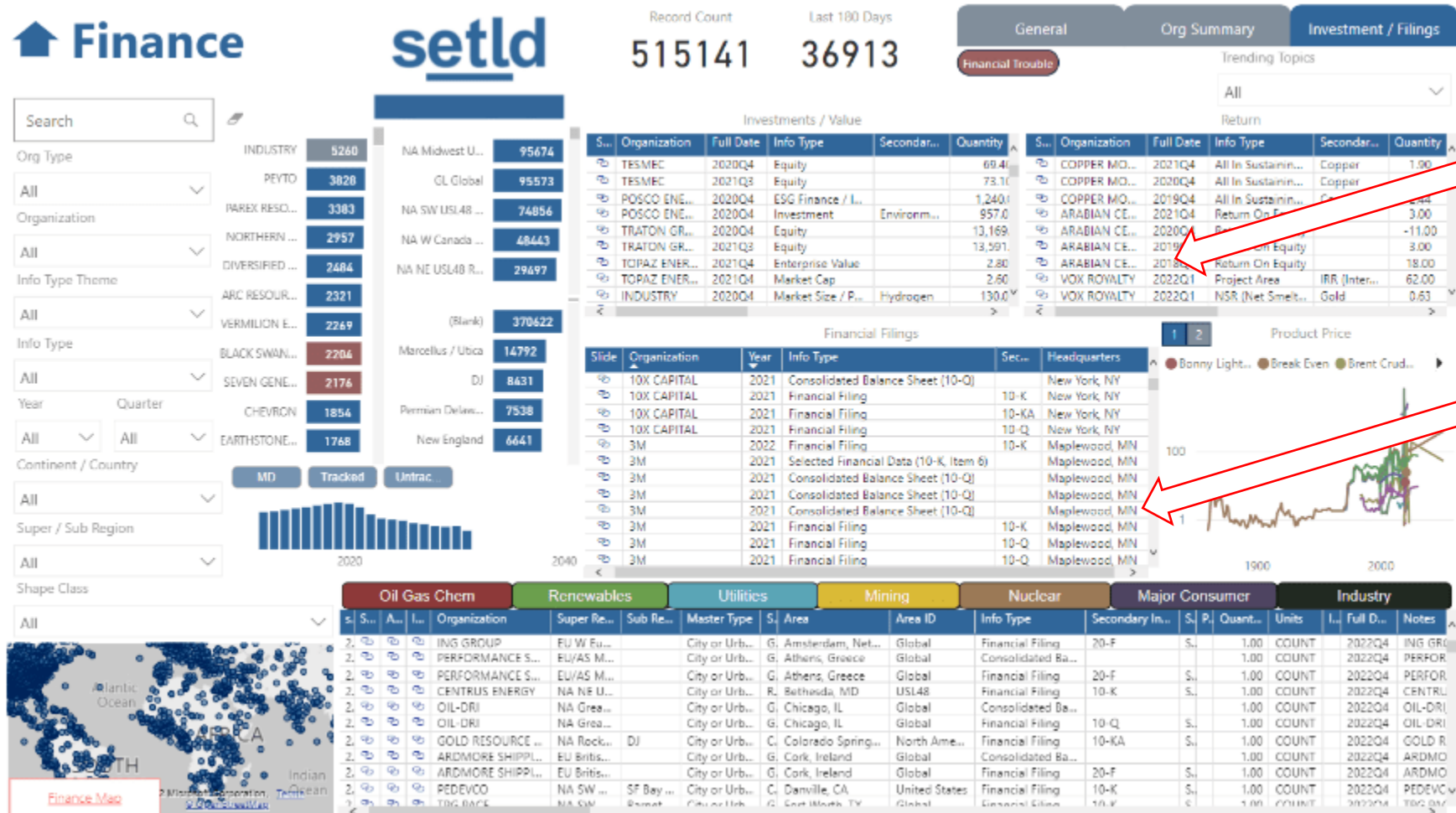




# TOTEMM Power BI – Finance



# TOTEMM Power BI – Finance



Investments / Filings Ancillary Charts and Tables

Financial Filings Table

## User Stories

1. **What are Diamondback Energy's recent capex and opex numbers in the Permian?**
2. Who is spending the most on renewables and what type?
3. View financial summaries for renewables organizations
4. What were the investments or financial filings for Chevron in 2021?
5. What organizations are in financial trouble and what records do we have for them?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

## What are Diamondback Energy's recent capex and opex numbers in the Permian?

Search Permian in the super / sub region slicer

Hold CTRL and select all Permian sub regions



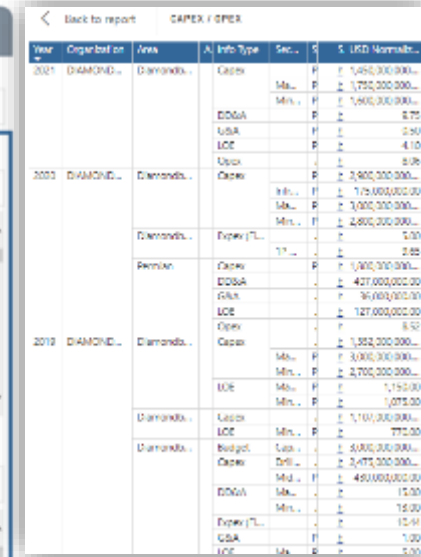
# TOTEMM Power BI – Finance

Hold CTRL and  
select  
Diamondback  
Energy from the  
organization chart





## Finance



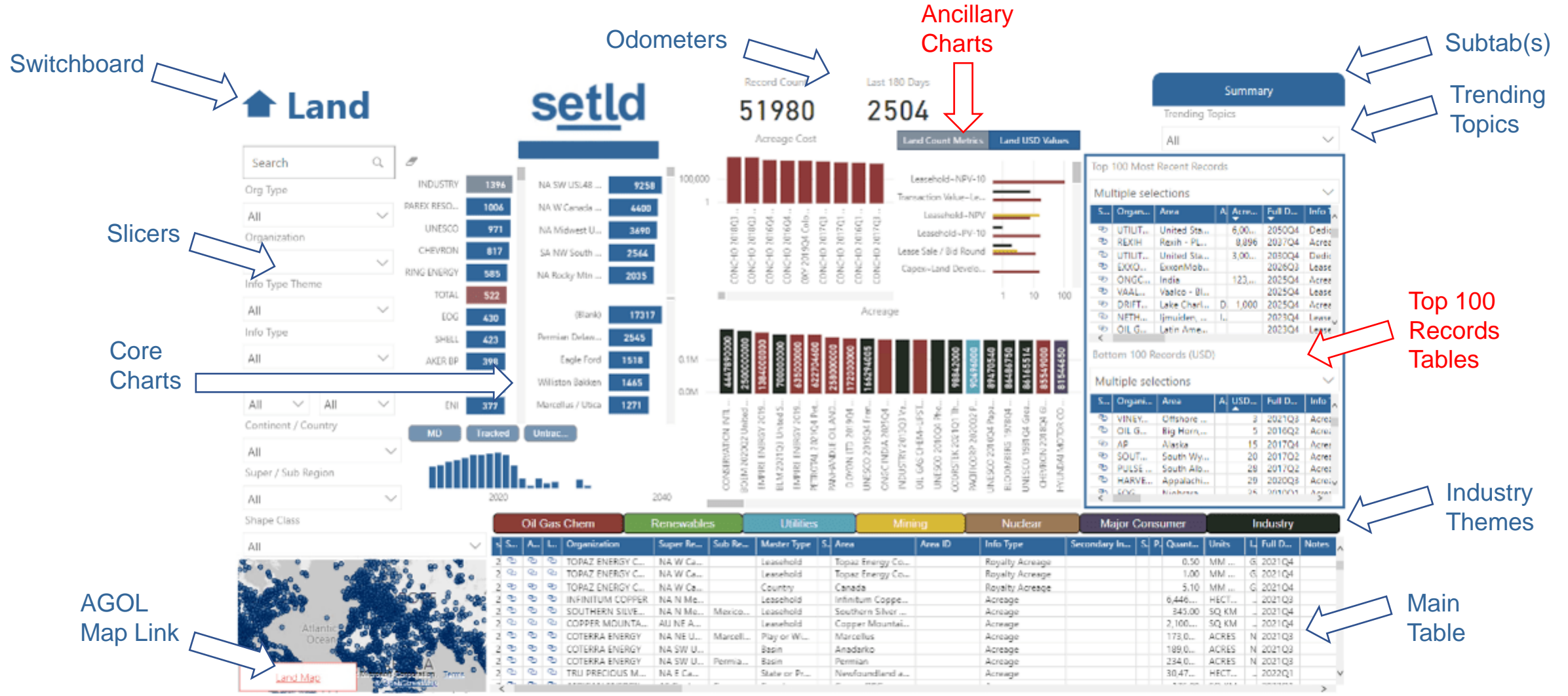
Expand the capex / opex table by selecting focus mode in the upper right-hand corner



# TOTEMM Power BI – Land

## Purpose

Displays information about acreage, acreage cost, NPV and working interests as it relates to land holdings



## User Stories

1. **What are acreage costs in the Permian?**
2. Who holds how much acreage in the Permian?
3. What leaseholds have reported present values?
4. Where are mines in South America and what resources are they producing?
5. How much reported acreage is dedicated to wind?

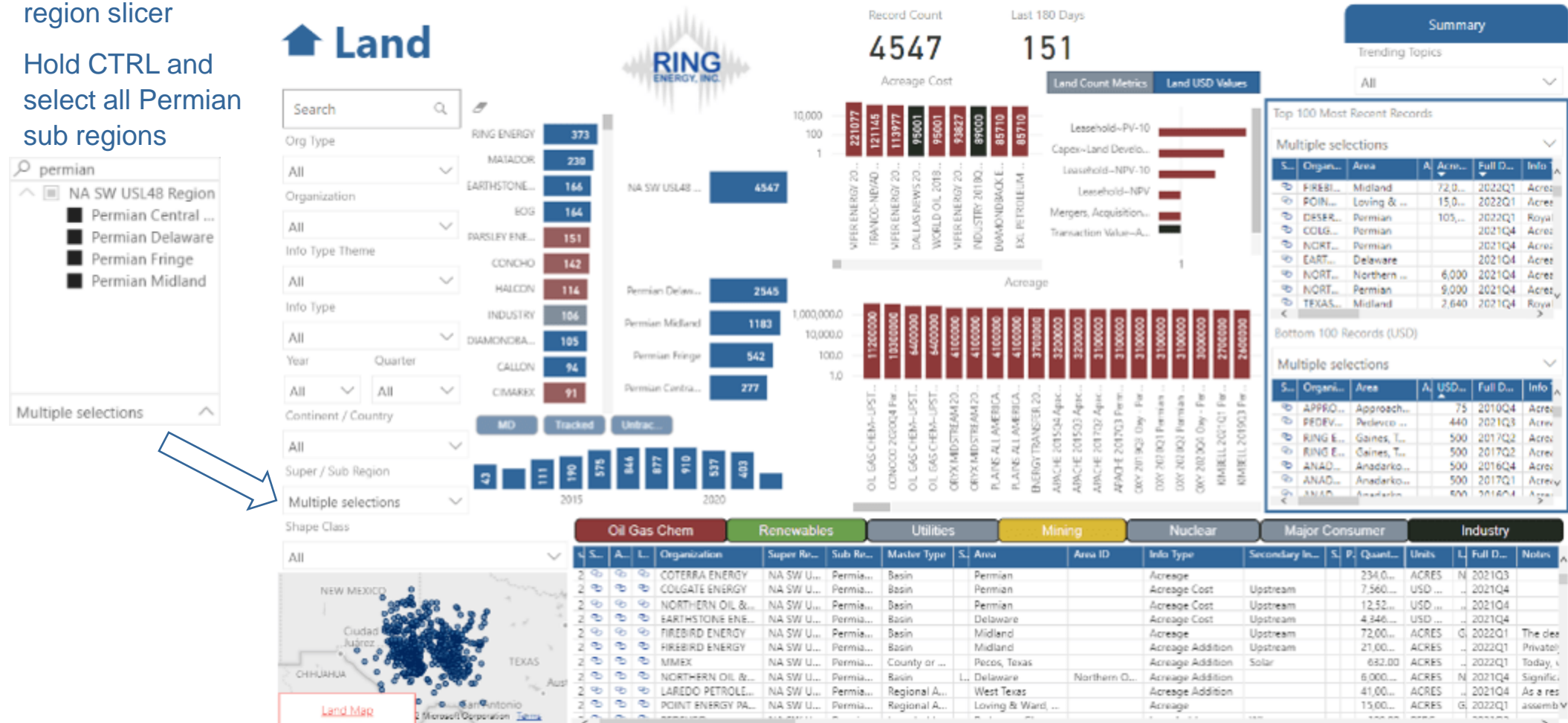
User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Power BI – Land

## What are acreage costs in the Permian?

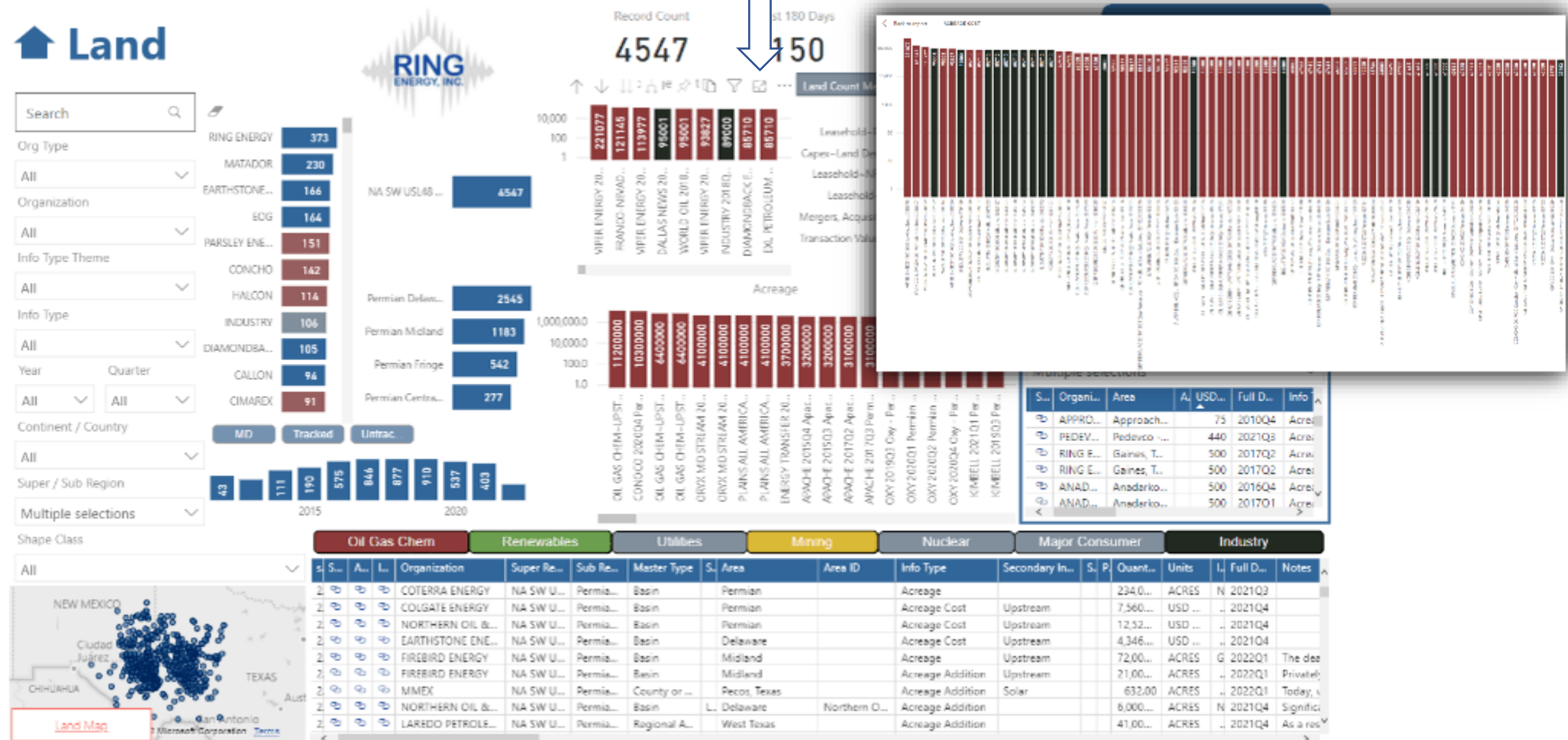
Search Permian in the super / sub region slicer

Hold CTRL and select all Permian sub regions



# TOTEMM Power BI – Land

Expand the acreage cost chart by selecting focus mode in the upper right-hand corner of the chart

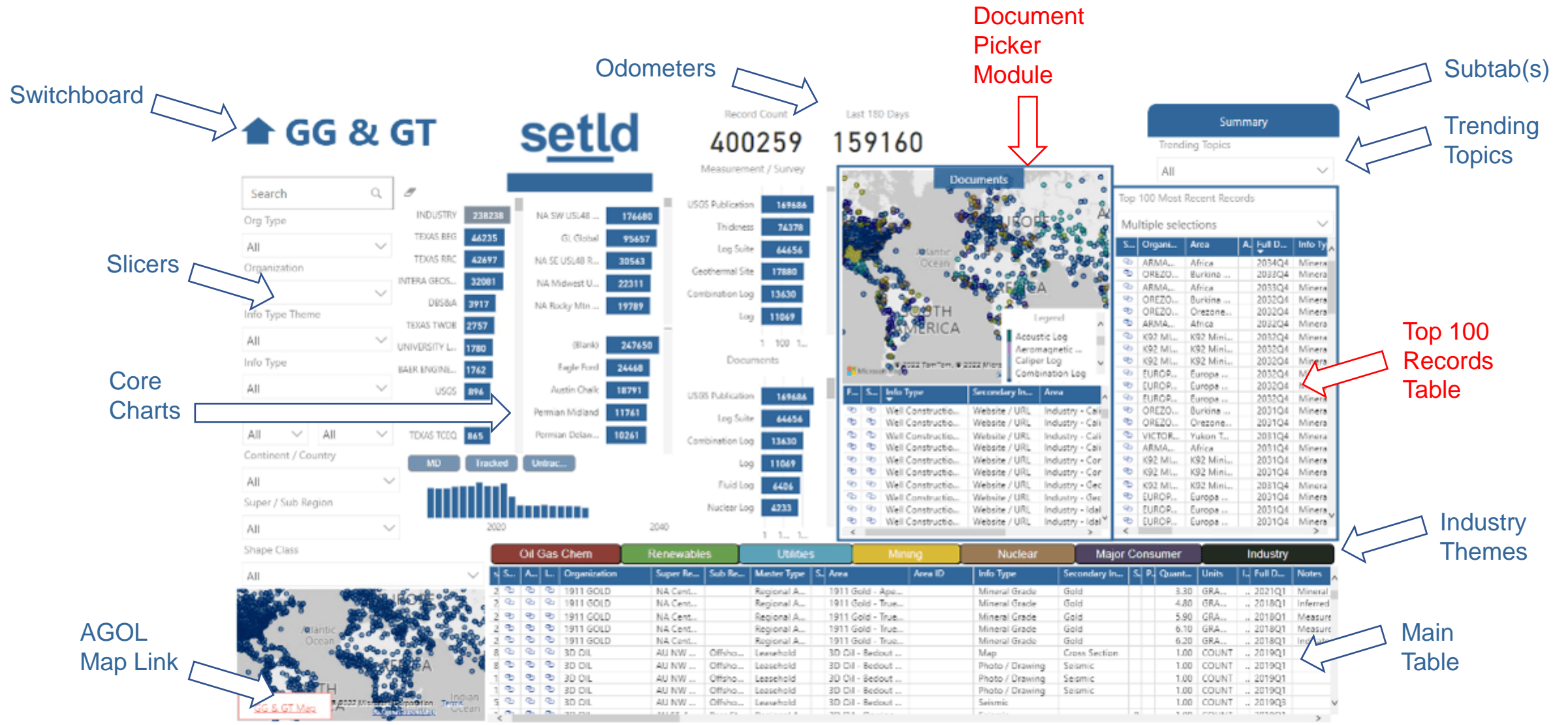




# TOTEMM Power BI – GG & GT

## Purpose

Discover what publications, logs and specific G&G measurements we have for certain areas



## User Stories

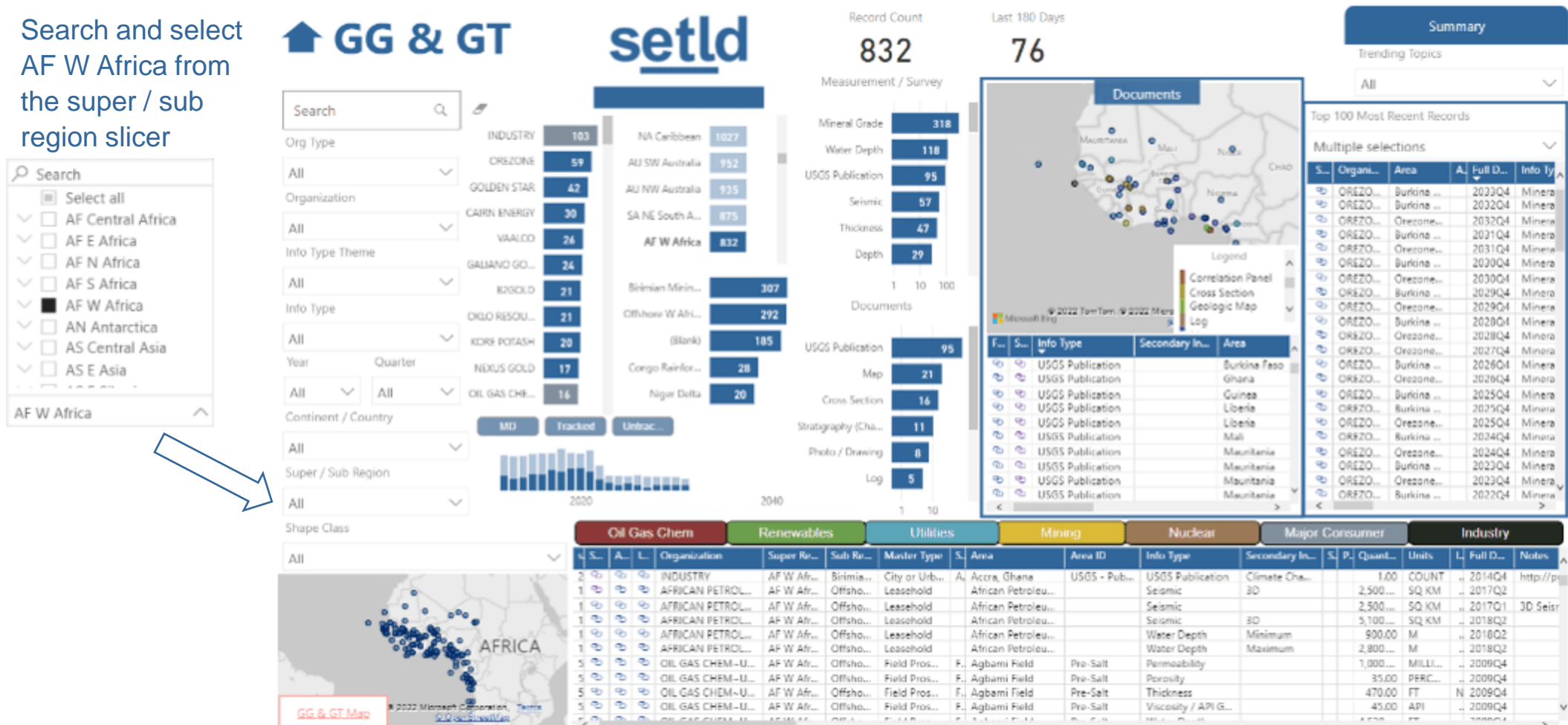
1. What logs are there for the Gulf of Mexico?
2. What area in Australia has high mineral grade?
3. What porosity values have been reported in the Montney?
4. What geologic documents are there for the Eagle Ford?
5. **What seismic surveys have been taken / talked about in West Africa?**

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

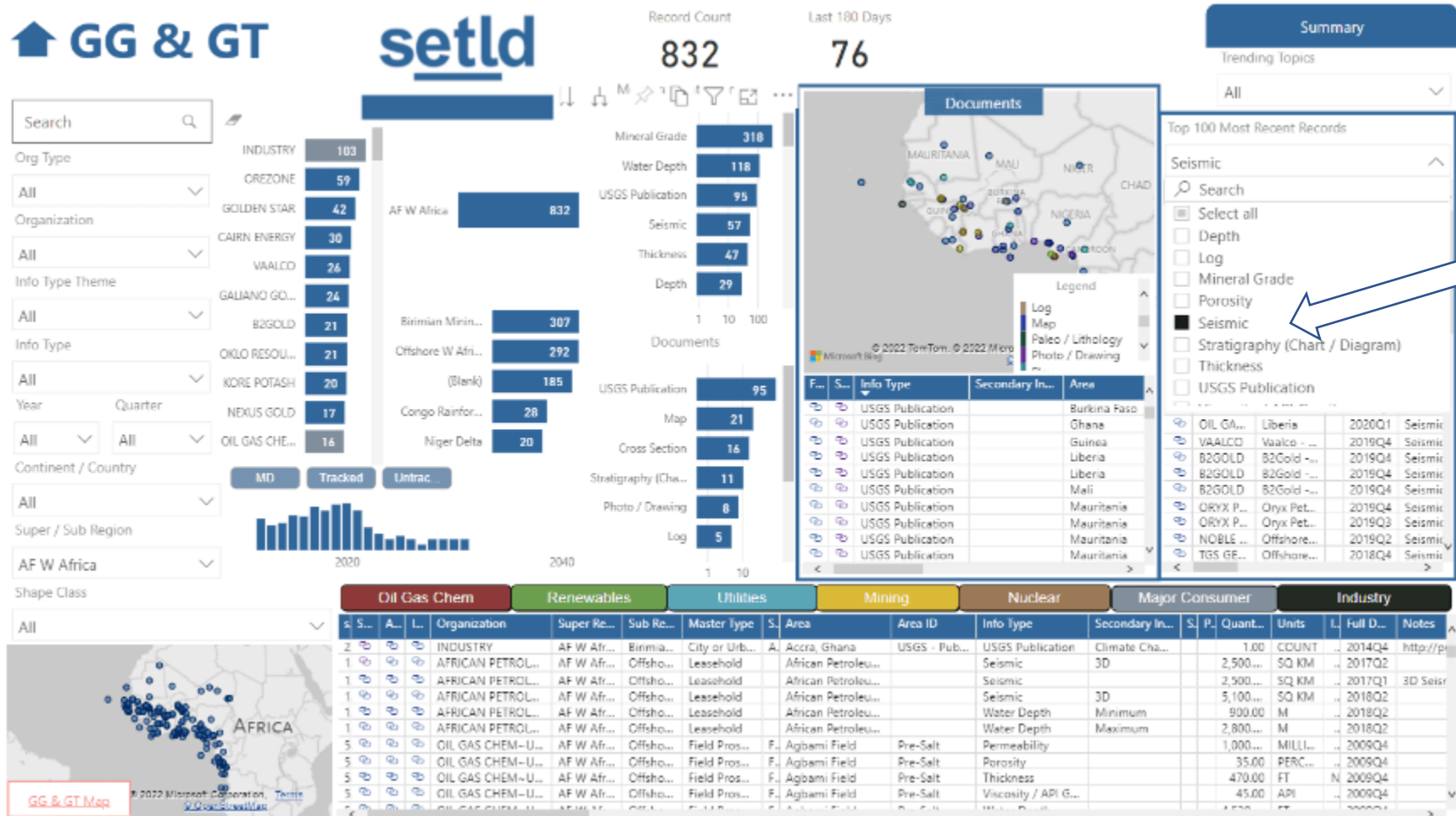


## What seismic surveys have been taken / talked about in West Africa?

Search and select AF W Africa from the super / sub region slicer

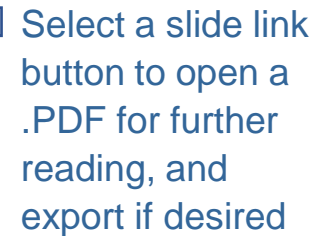


# TOTEMM Power BI – GG & GT



Select seismic in the top 100 most recent records slicer

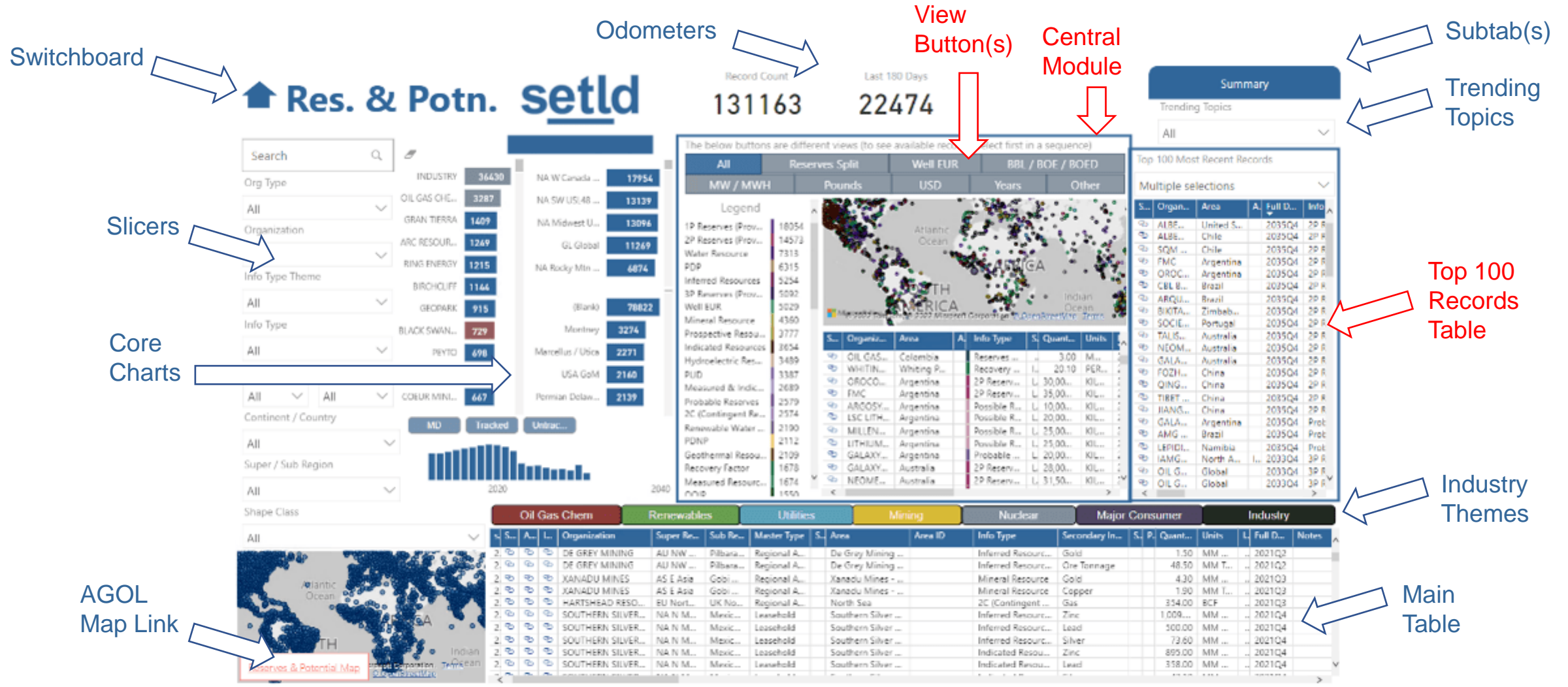
**setld**



# TOTEMM Power BI – Reserves & Potential

## Purpose

See reserves, resources, and energy generation potential by organization and area over time



## User Stories

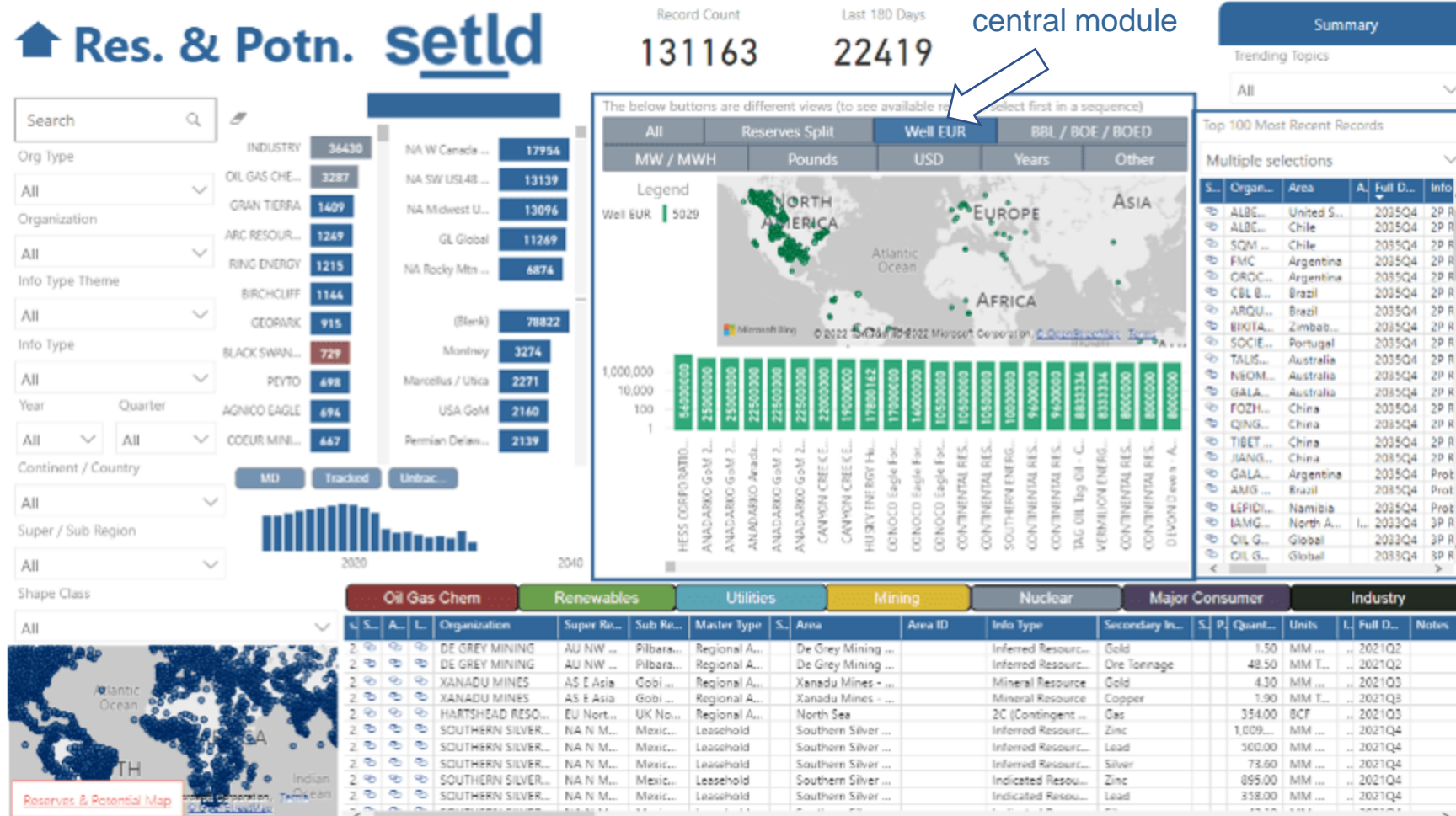
1. **What reported well EURs are there in the Permian?**
2. What are Ring Energy's 1P reserves?
3. What are Horizon Minerals' mineral resources?
4. What organizations have 3P reserves in the North Sea?
5. What is the hydroelectric resource potential of the Himalayas?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases



# TOTEM Power BI – Reserves & Potential

What reported well EURs are there in the Permian?

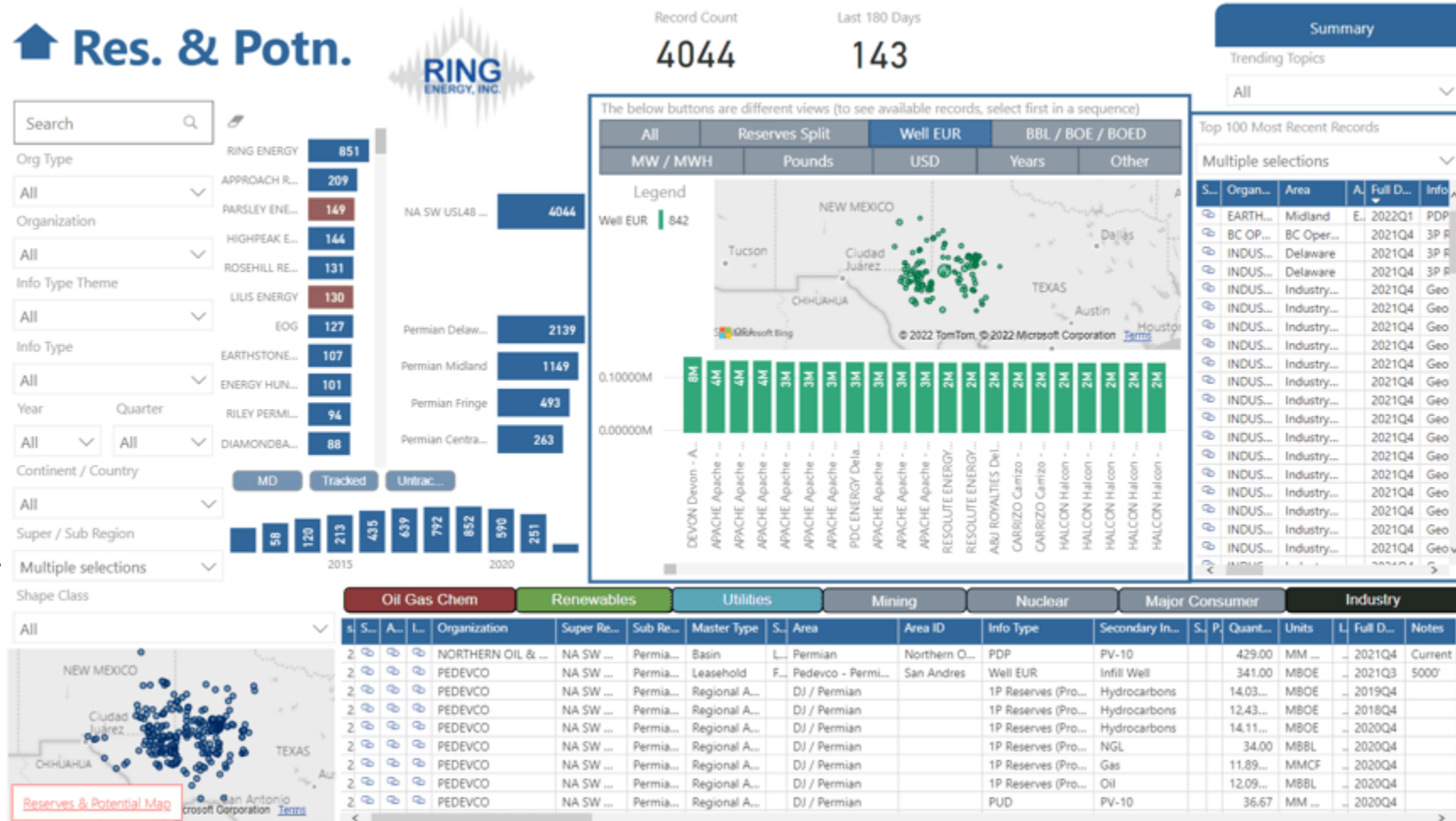




# TOTEM Power BI – Reserves & Potential

Search Permian in the super / sub region slicer

Hold CTRL and select all Permian sub regions



**Res. & Potn.**

Record Count: 4044 | Last 180 Days: 143

**Summary**

Trending Topics: All

Top 100 Most Recent Records

Multiple selections

Legend: Well EUR | 842

Focus mode

Oil Gas Chem | Renewables | Utilities | Mining

Reserves & Potential Map

S.	A.	L.	Organization	Super Re.	Sub Re.	Master Type	S.	Area
2	1	1	NORTHERN OIL & ...	NA SW ...	Permian ...	Basin	L.	Permian
2	1	1	PEDEVCO	NA SW ...	Permian ...	Leasehold	F.	Permian - Permian
2	1	1	PEDEVCO	NA SW ...	Permian ...	Regional A...	DJ / Permian	
2	1	1	PEDEVCO	NA SW ...	Permian ...	Regional A...	DJ / Permian	
2	1	1	PEDEVCO	NA SW ...	Permian ...	Regional A...	DJ / Permian	
2	1	1	PEDEVCO	NA SW ...	Permian ...	Regional A...	DJ / Permian	
2	1	1	PEDEVCO	NA SW ...	Permian ...	Regional A...	DJ / Permian	
2	1	1	PEDEVCO	NA SW ...	Permian ...	Regional A...	DJ / Permian	
2	1	1	PEDEVCO	NA SW ...	Permian ...	Regional A...	DJ / Permian	
2	1	1	PEDEVCO	NA SW ...	Permian ...	Regional A...	DJ / Permian	

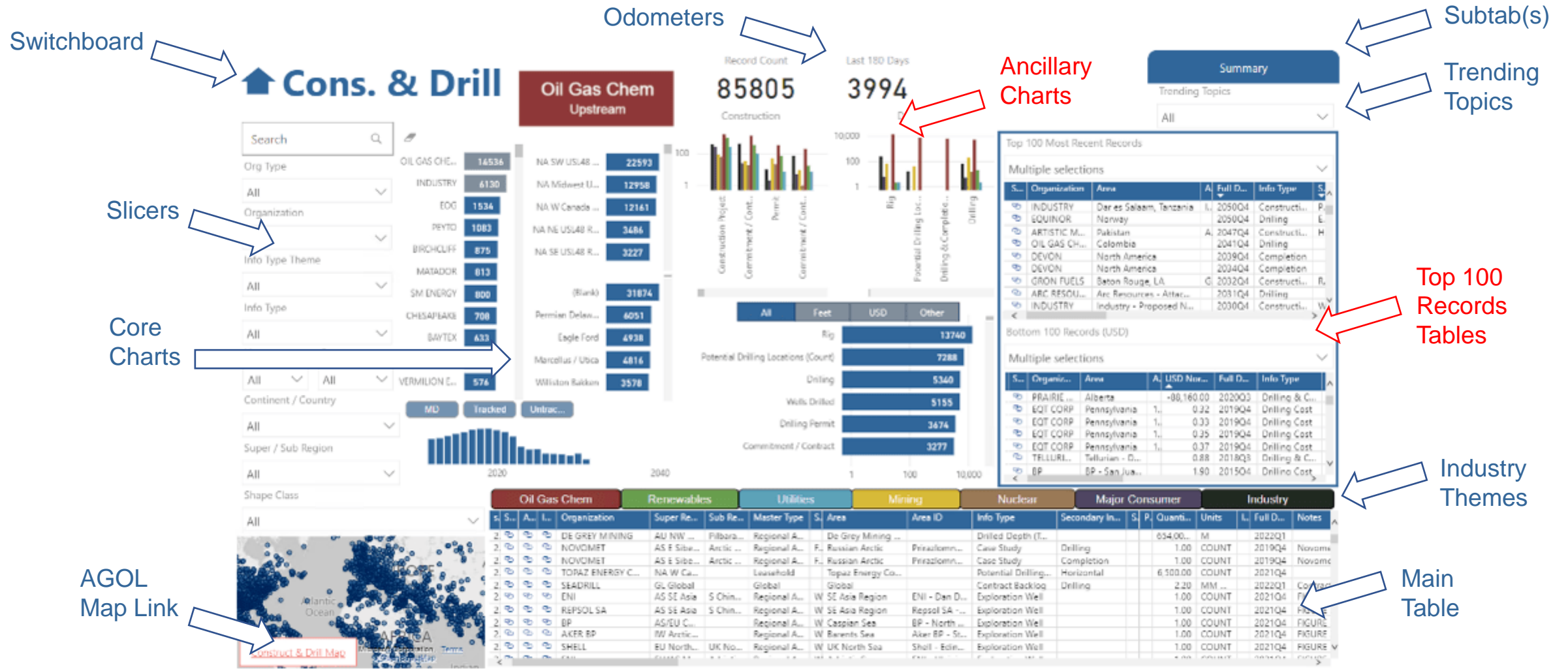
Asset Type	Reserves	Potential
Oil	1,000,000	1,000,000
Gas	1,000,000	1,000,000
Chem	1,000,000	1,000,000
Renewables	1,000,000	1,000,000
Utilities	1,000,000	1,000,000
Mining	1,000,000	1,000,000

[illegible]

# TOTEMM Power BI – Construct & Drill

## Purpose

See construction and drilling activity by organization and area



## User Stories

1. What is Devon constructing or drilling in the US?
2. What renewables construct & drill activity occurred recently?
3. What are the largest construct & drill expenditures for oil gas chem recently?
4. What are typical lateral lengths in the Permian?
5. **What are the lowest drilling & completions costs in the Permian?**

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Power BI – Construct & Drill

## What are the lowest drilling & completions costs in the Permian?

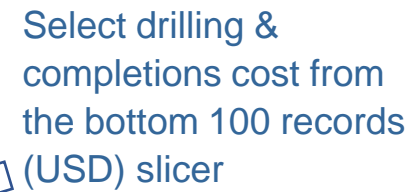
Search Permian in the super / sub region slicer

Hold CTRL and select all Permian sub regions





## ↑ Cons. & Drill





# TOTEMM Power BI – Construct & Drill



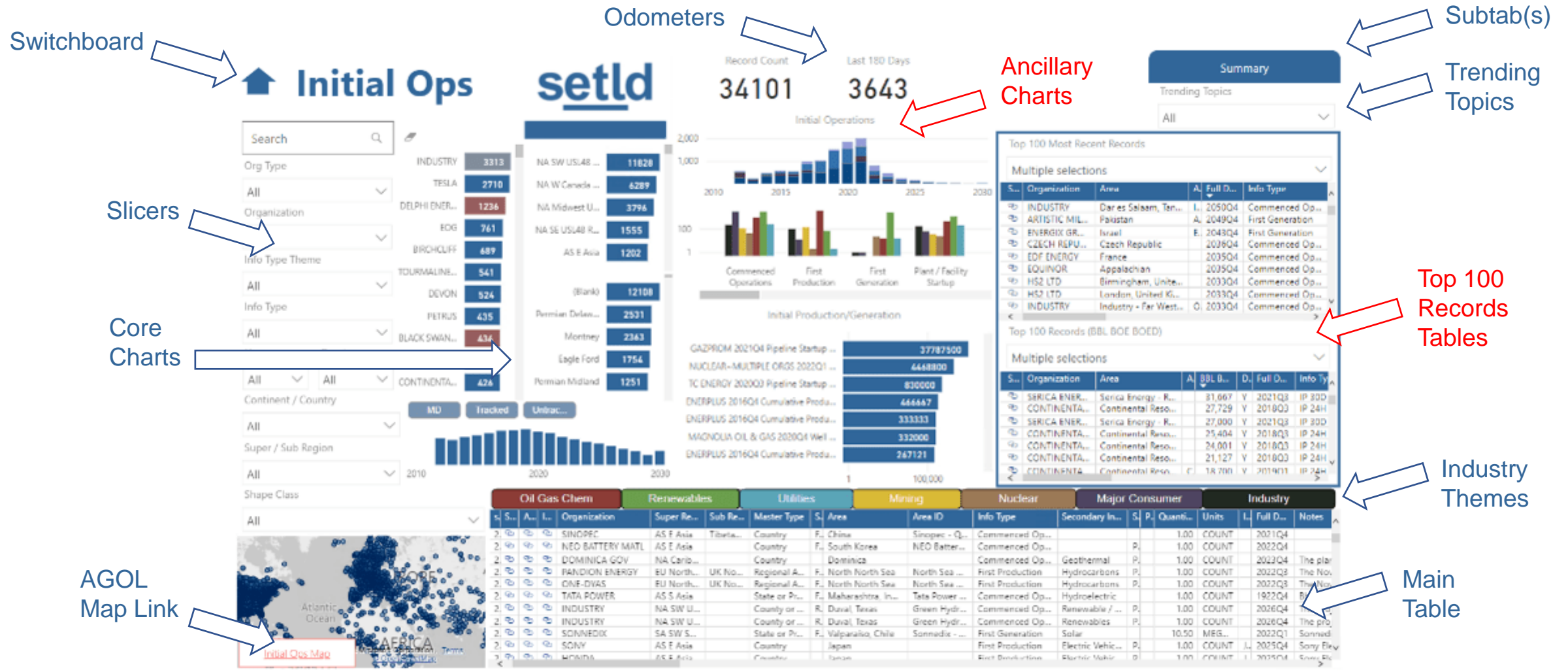
Review the bottom 100 records (USD) table

Select a slide link button to open a .PDF for further reading, and export if desired

# TOTEMM Power BI – Initial Ops

## Purpose

See initial production / generation and startup / commenced operations by organization and area over time



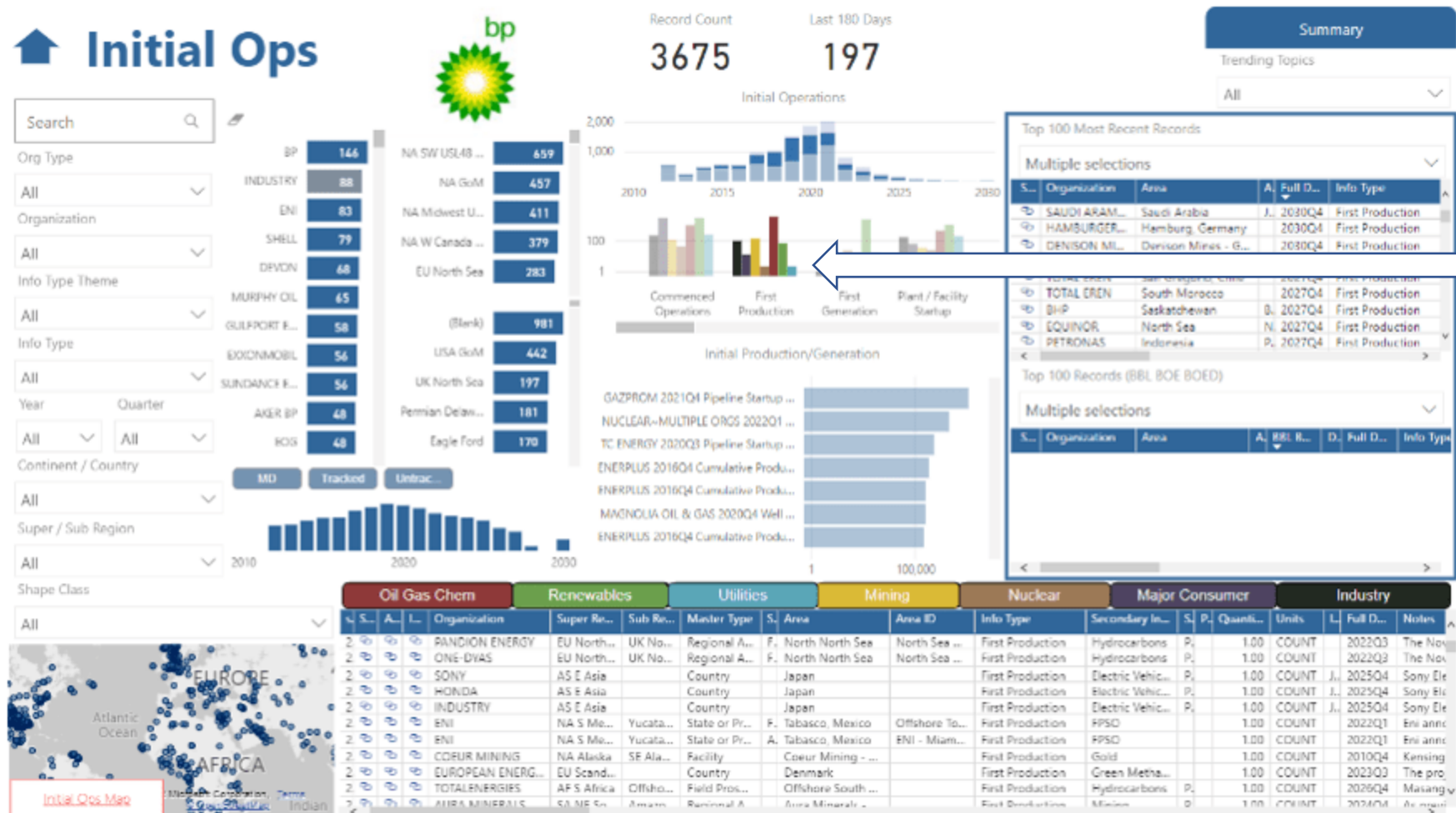
## User Stories

1. **Where did BP start production in the last two years?**
2. Who has had high initial production in the United States recently?
3. What are Oxy's largest IPs?
4. Who is starting up renewables facilities in the United States?
5. What pipelines are coming online and when?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Power BI – Initial Ops

Where did BP start production in the last two years?



Select the first production info type from the initial operations chart

# TOTEMM Power BI – Initial Ops

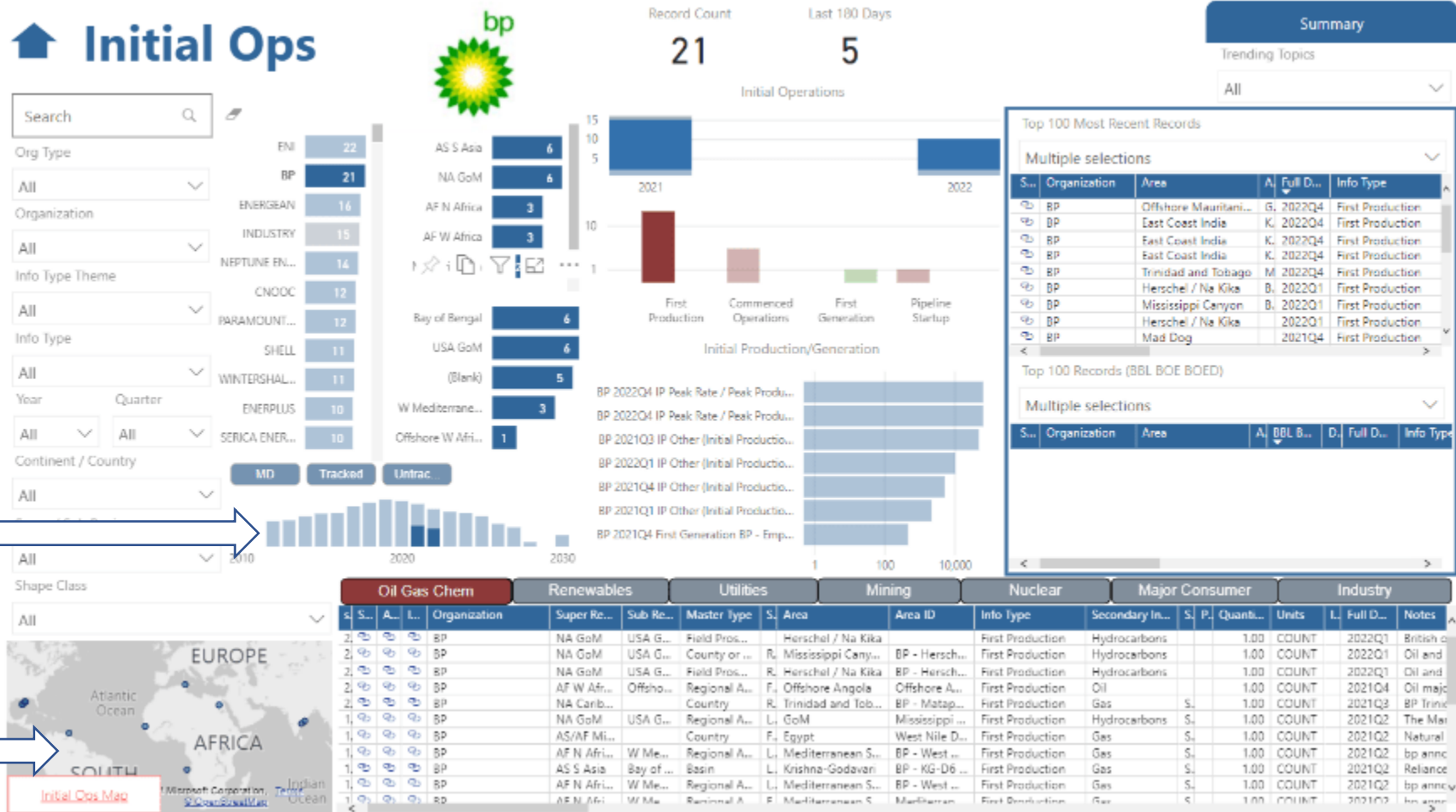
Hold CTRL and  
select BP from  
the organization  
chart

## Initial Ops





# TOTEMM Power BI – Initial Ops

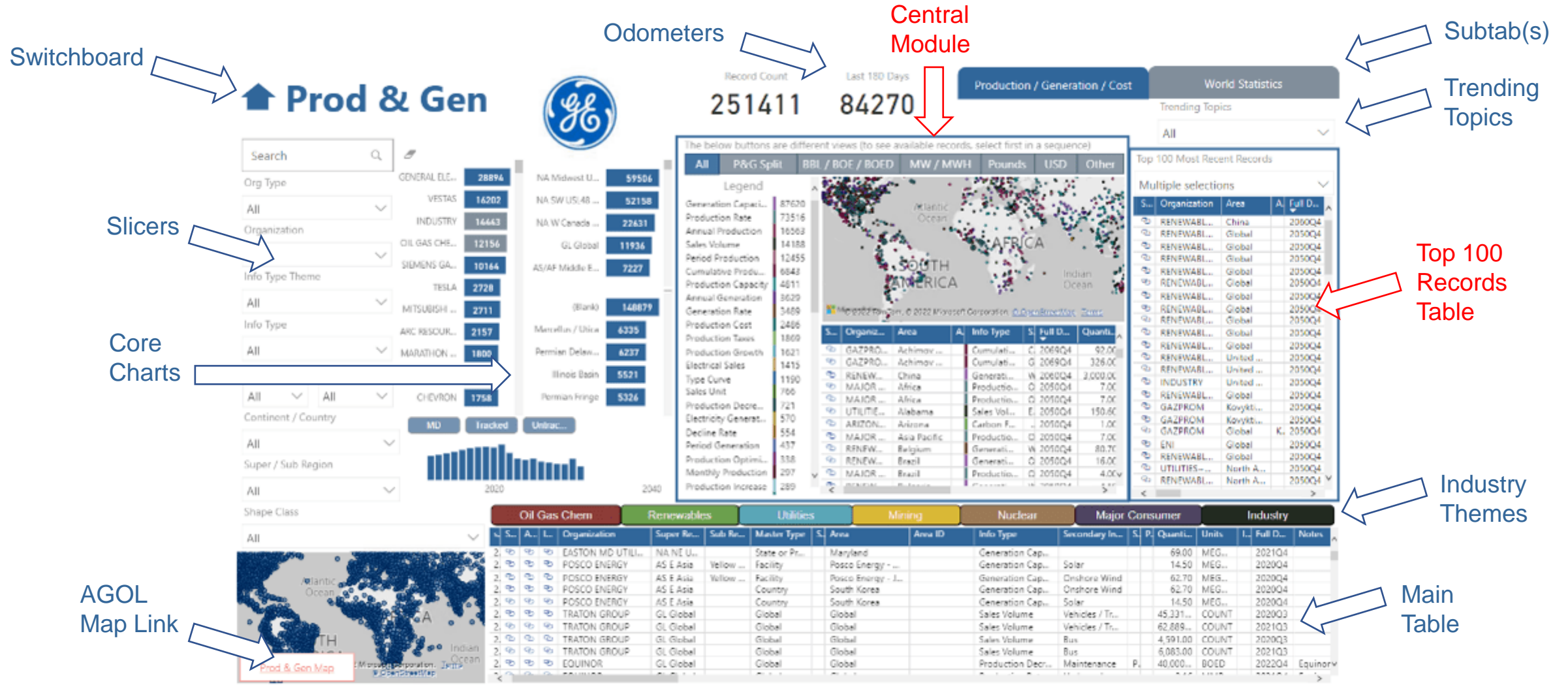




# TOTEMM Power BI – Prod & Gen

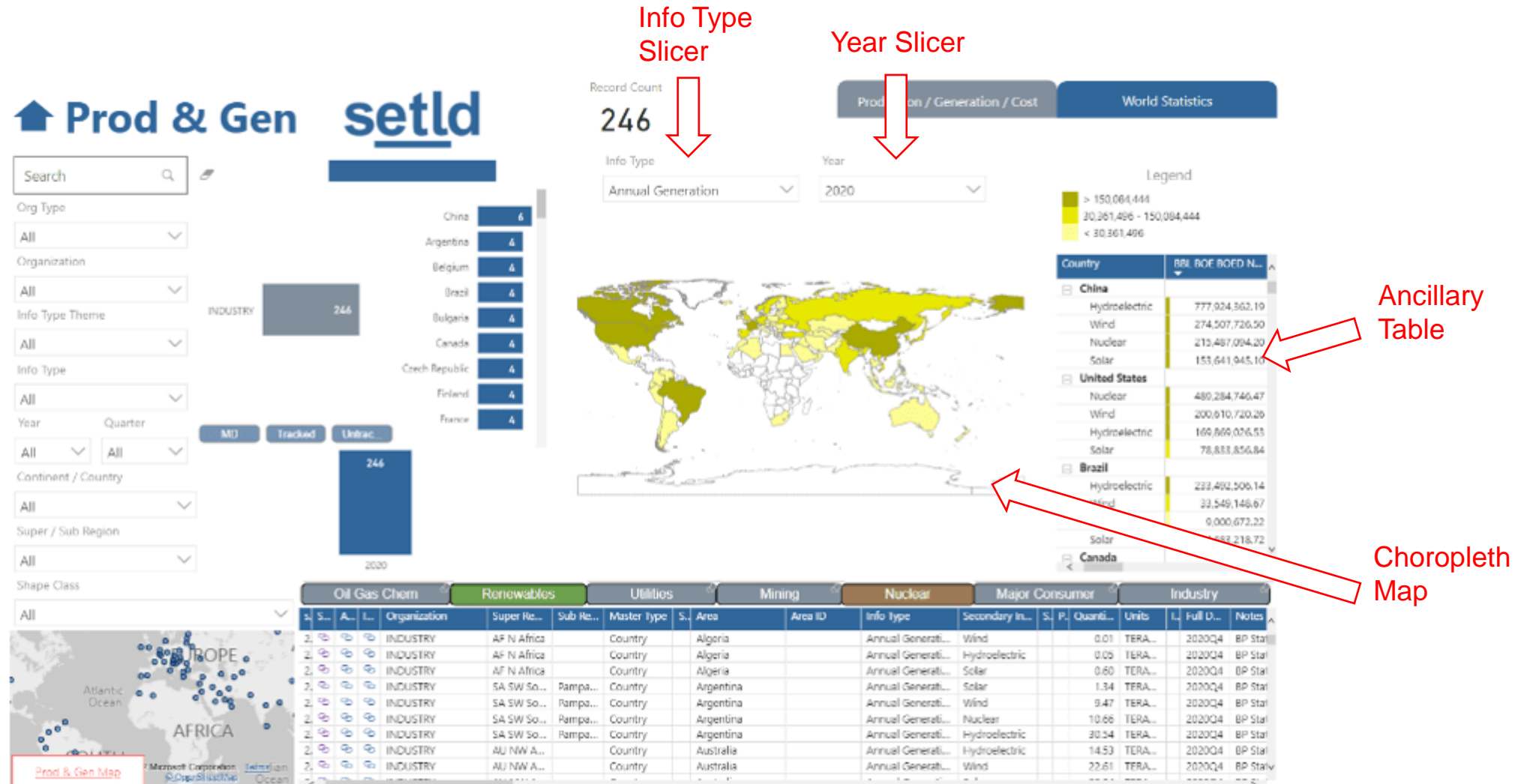
## Purpose

See production / generation and related costs by organization and area over time



## Purpose

See global production and generation by country based on BP – Statistical Review of World Energy datasets



## User Stories

1. What is annual production in the United States?
2. **What organizations are involved with hydrogen production or generation?**
3. What organizations in the Permian have recent high production rates, and what are they producing?
4. What organizations had the highest renewables generation rate in recent years, via what method?
5. Where are the lowest production costs and for what industry?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

## What organizations are involved with hydrogen production or generation?

Review the central module's map and table



Select hydrogen from the trending topics slicer

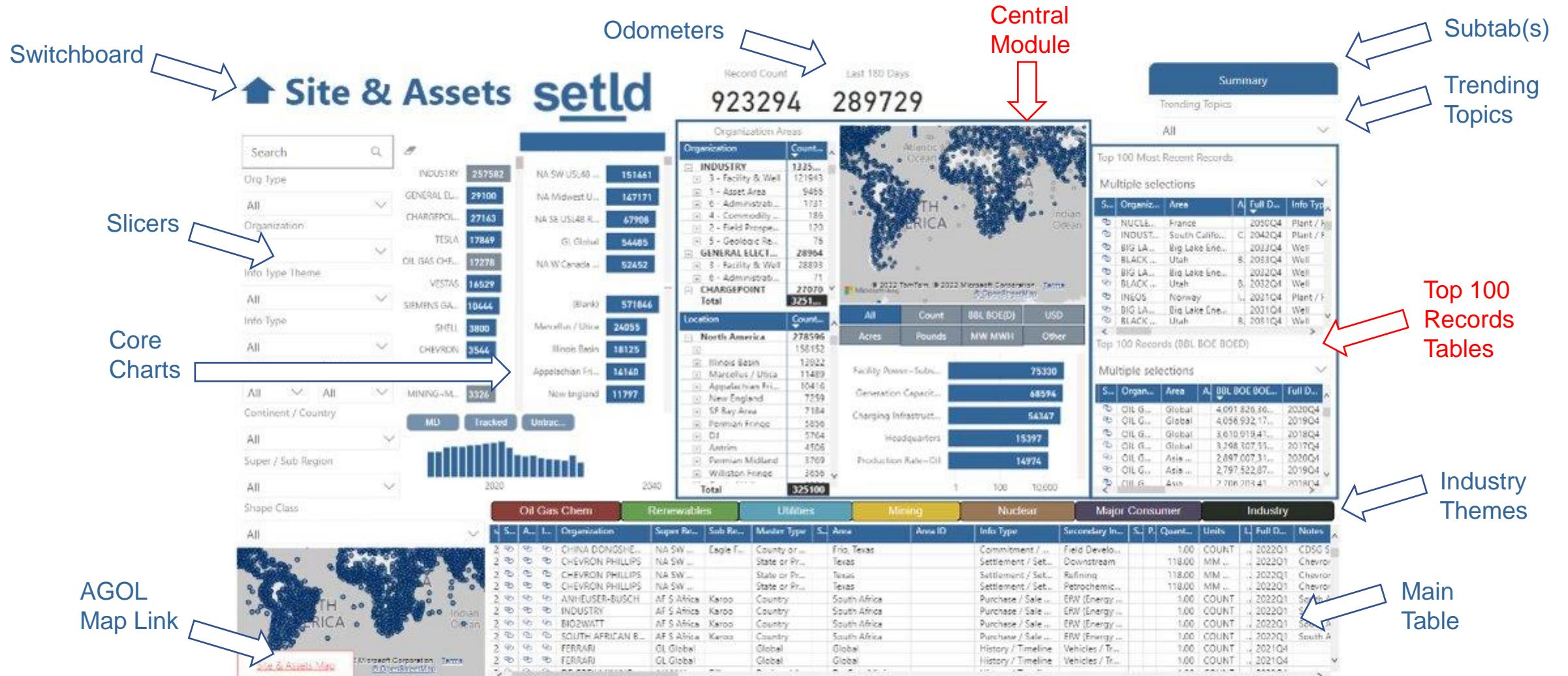
Review the main table



# TOTEMM Power BI – Site & Assets

## Purpose

Discover site and asset locations / areas, by organization as it relates to ownership and industry theme



## User Stories

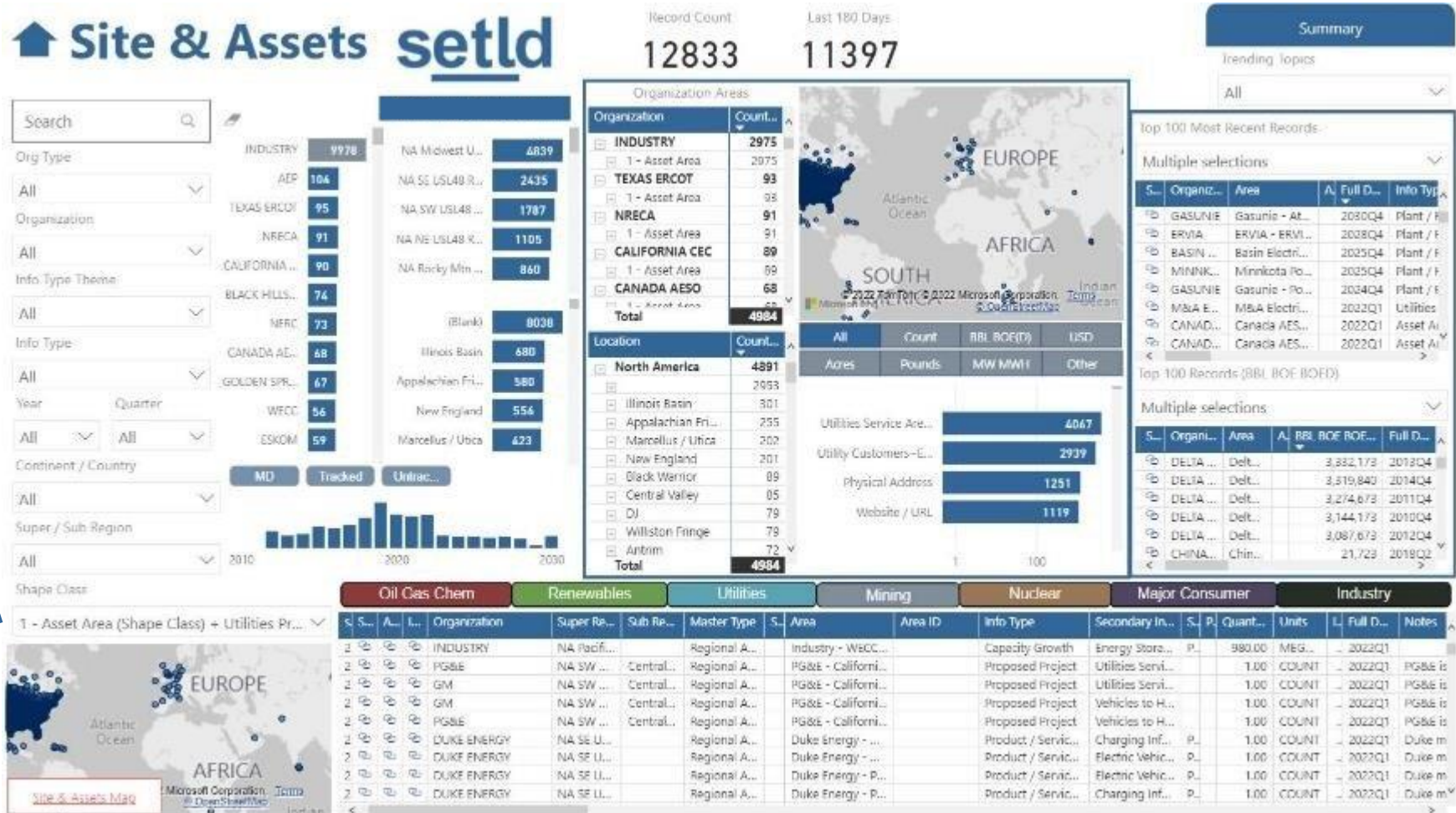
1. What site and assets does Equinor own in the North Sea?
2. Where are Shell's wind assets?
3. Where are BHP's mining facilities?
4. **What organizations have utilities service areas in the United States?**
5. Where are substations in the United States?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases



# TOTEMM Power BI – Site & Assets

What organizations have utilities service areas in the United States?



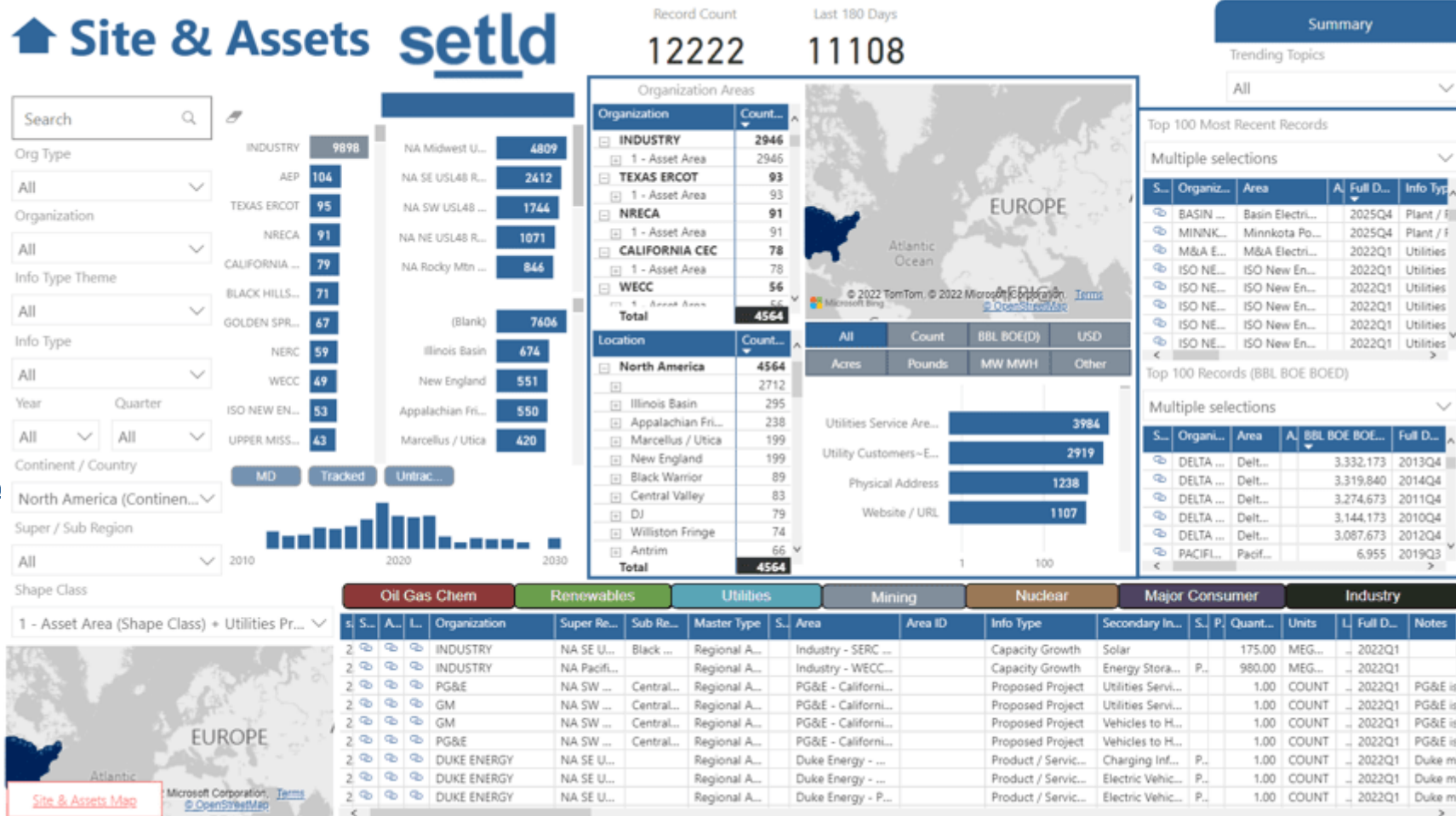
Select utilities prevalence under asset areas in the shape class slicer

Search and select  
United States in  
the continent /  
country slicer

Search

- ☐ Europe
- ☒ North America
  - ☐ Canada
  - ☐ Dominican Republic
  - ☐ Mexico
  - ☐ Puerto Rico
  - ☒ United States
  - ☐ United States Virgi...
- ☐ Oceania
- ☐ South America

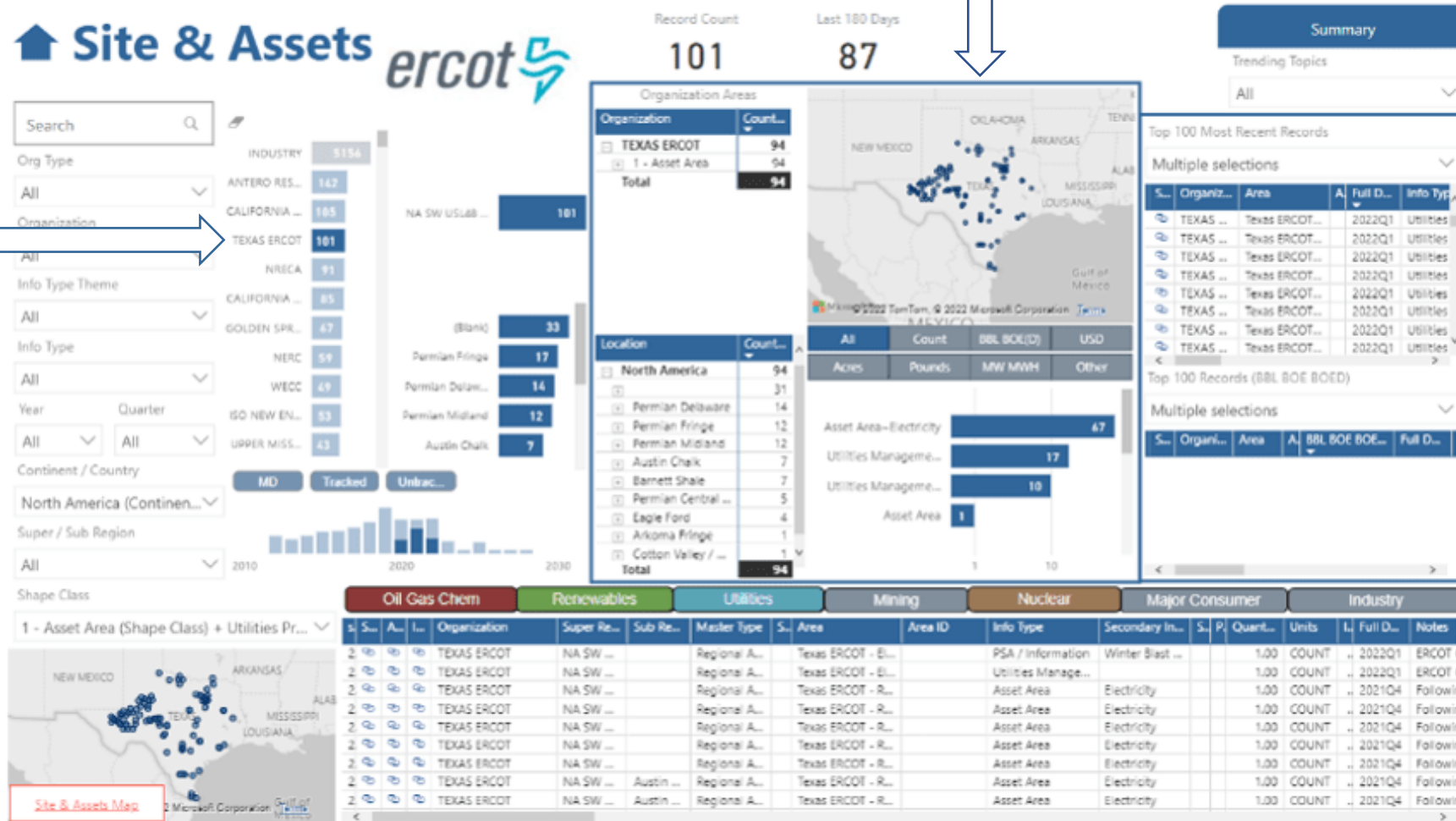
North America (Continen... ^



# TOTEMM Power BI – Site & Assets

Review the central module's charts and tables

Hold CTRL and select an organization to view it's associated records

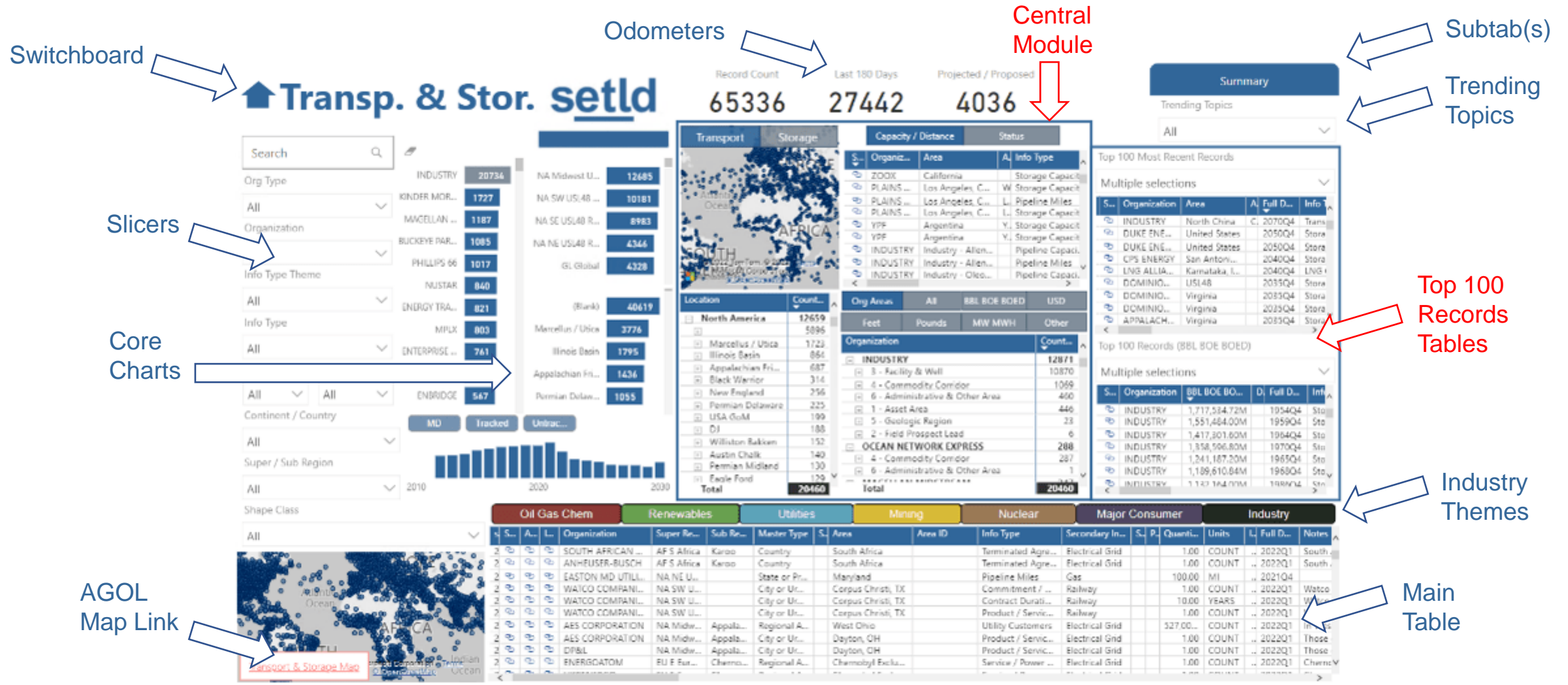




# TOTEMM Power BI – Transport & Storage

## Purpose

See transportation corridors and storage locations and their associated capacities by organization and area over time



## User Stories

1. Where are Phillips 66's transportation corridors?
2. What pipelines are being proposed in the Middle East?
3. **What are the capacities of Energy Transfer pipelines in the Permian?**
4. What are the storage capacities of terminals in the Marcellus, and what are they storing?
5. What terminals are storing hydrocarbons in the United States?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

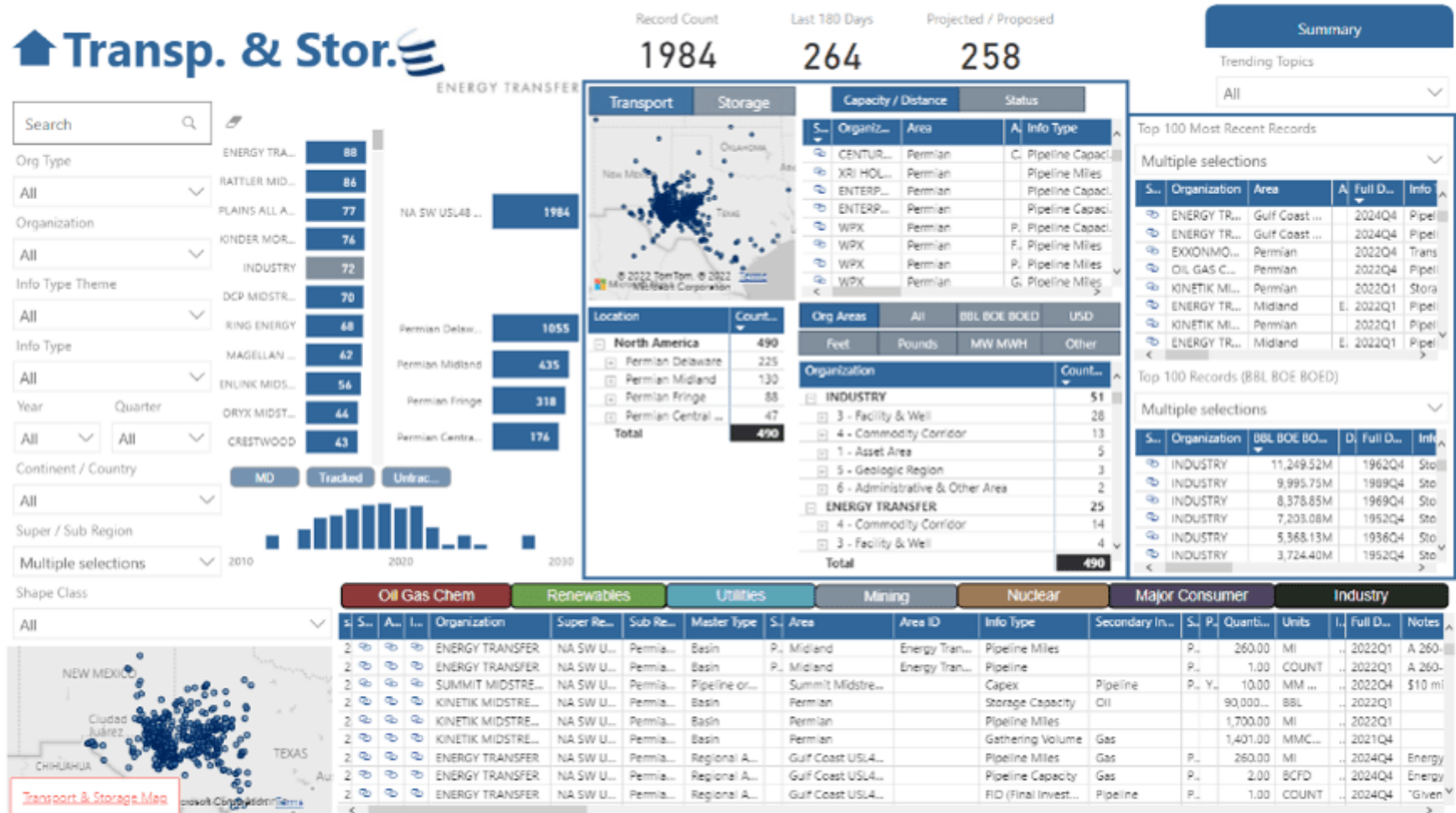


# TOTEMM Power BI – Transport & Storage

## What are the capacities of Energy Transfer pipelines in the Permian?

Search Permian in the super / sub region slicer

Hold CTRL and select all Permian sub regions



# TOTEMM Power BI – Transport & Storage

## What are the capacities of Energy Transfer pipelines in the Permian?

Select Energy Transfer from the organization chart

Review a pipelines nodes in the transport map

Review the capacity / distance table

Hold CTRL and select a pipeline in the location table

Review the main table

The dashboard displays the following data:

**Record Count:** 88 (Last 180 Days), 8 (Projected / Proposed), 6 (Summary)

**Capacity / Distance Table:**

Organization	Area	Info Type
ENERGY TR...	Energy Transfe...	Pipeline Capaci...
ENERGY TR...	Energy Transfe...	Pipeline Capaci...
ENERGY TR...	Energy Transfe...	Pipeline Capaci...
ENERGY TR...	Energy Transfe...	Pipeline Capaci...
ENERGY TR...	West Texas	E. Pipeline Capaci...
ENERGY TR...	West Texas	E. Pipeline Miles
ENERGY TR...	Energy Transfe...	Pipeline Capaci...
ENERGY TR...	Enerov Transfe...	Pipeline Miles

**Top 100 Most Recent Records Table:**

Organization	Area	Full D...	Info
ENERGY TR...	Gulf Coast ...	2024Q4	Pipel
ENERGY TR...	Gulf Coast ...	2024Q4	Pipel
ENERGY TR...	Midland	E. 2022Q1	Pipel
ENERGY TR...	Midland	E. 2022Q1	Pipel
ENERGY TR...	Energy Tran...	2021Q4	Stora
ENERGY TR...	Permian	E. 2021Q4	Stora
ENERGY TR...	Energy Tran...	2021Q4	Pipel
ENERGY TR...	Energy Tran...	2021Q4	Pipel

**Top 100 Records (BBL BOE BOED) Table:**

Organization	BBL BOE BO...	D. Full D...	Info
ENERGY TR...	2.00M	2017Q4	Sto
ENERGY TR...	1.00M	2021Q2	Sto
ENERGY TR...	1.00M	2021Q4	Sto
ENERGY TR...	0.51M	Y. 2018Q4	Pip
ENERGY TR...	0.42M	Y. 2018Q1	Pip
ENERGY TR...	0.42M	Y. 2020Q1	Pip

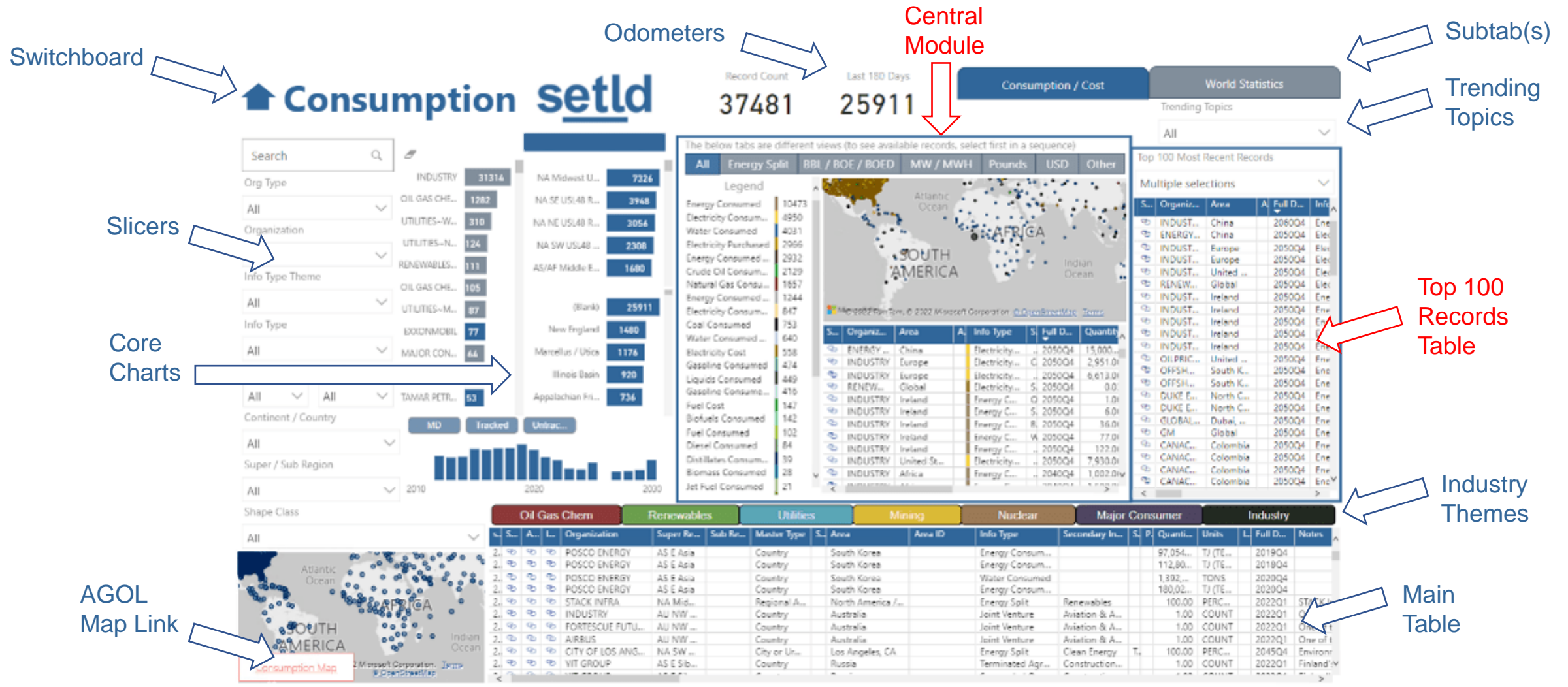
**Main Table:**

S...	A...	L...	Organization	Super Re...	Sub Re...	Master Type	S...	Area	Area ID	Info Type	Secondary In...	S...	P...	Quant...	Units	L...	Full D...	Notes
2			ENERGY TRANSFER	NA SW U...	Permia...	Basin	P...	Midland	Energy Tran...	Pipeline Miles		P...		260.00	MI		2022Q1	A 260...
2			ENERGY TRANSFER	NA SW U...	Permia...	Basin	P...	Midland	Energy Tran...	Pipeline		P...		1.00	COUNT		2022Q1	A 260...
2			ENERGY TRANSFER	NA SW U...	Permia...	Regional A...		Gulf Coast USL4...		Pipeline Miles	Gas	P...		260.00	MI		2024Q4	Energy
2			ENERGY TRANSFER	NA SW U...	Permia...	Regional A...		Gulf Coast USL4...		Pipeline Capacity	Gas	P...		2.00	BCFD		2021Q4	
2			ENERGY TRANSFER	NA SW U...	Permia...	Regional A...		Gulf Coast USL4...		FID (Final Invest...	Pipeline	P...		1.00	COUNT		2021Q4	
2			ENERGY TRANSFER	NA SW U...	Permia...	Pipeline or...		Energy Transfer ...		Pipeline Miles				750.00	MI		2021Q4	
2			ENERGY TRANSFER	NA SW U...	Permia...	Pipeline or...		Energy Transfer ...		Pipeline Capacity	Gas			2.00	BCFD		2021Q4	
2			ENERGY TRANSFER	NA SW U...	Permia...	Facility		Energy Transfer ...		Storage Capacity	Oil			1.00	MMB...		2021Q4	
1			ENERGY TRANSFER	NA SW U...	Permia...	Basin	P...	Permian	Energy Tran...	Pipeline Capacity	Gas	P...		115.00...	MCFD		2021Q4	This pr...

# TOTEMM Power BI – Consumption

## Purpose

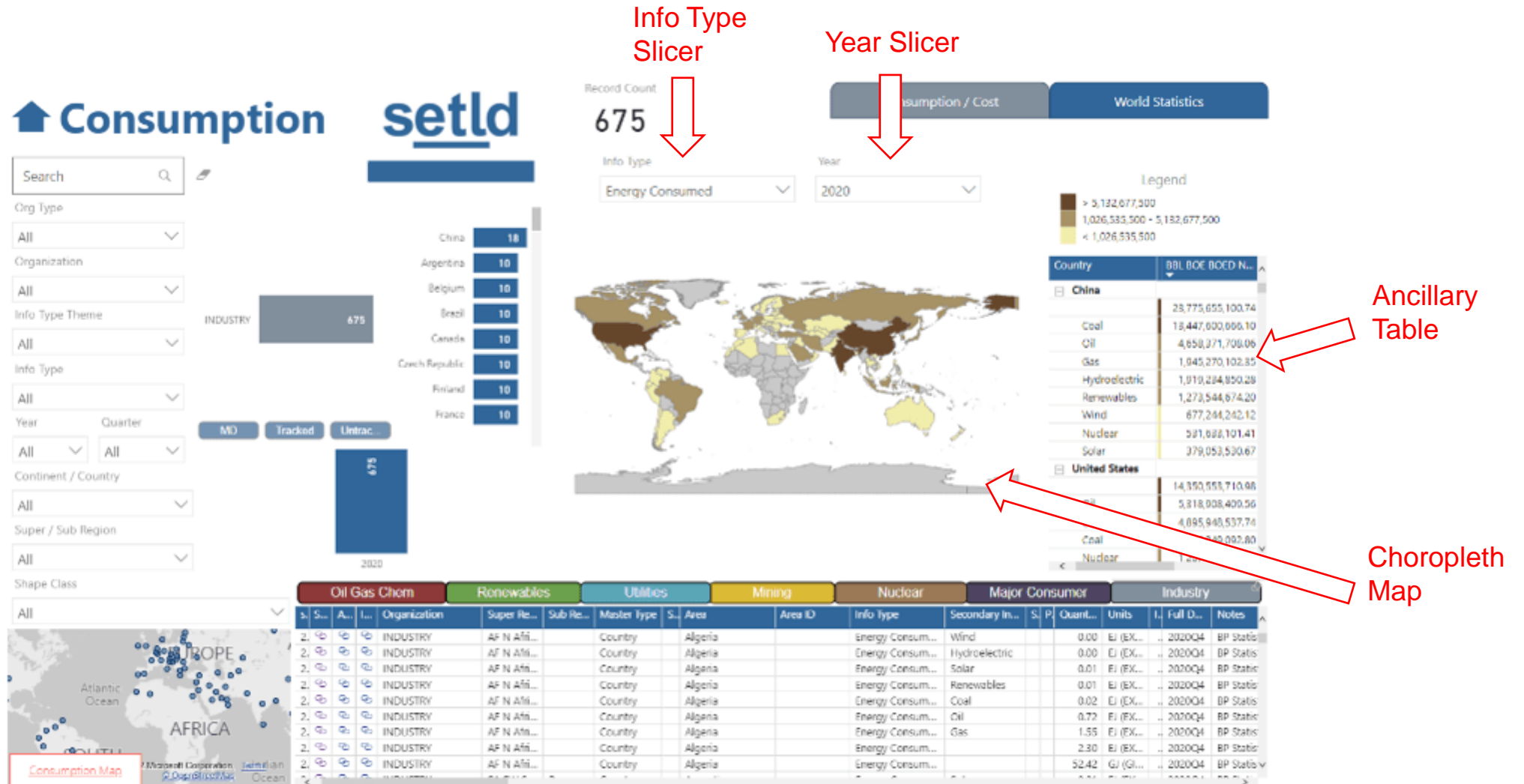
See resource consumption by organization and area over time



# TOTEMM Power BI – Consumption

## Purpose

See global production and generation by country based on BP – Statistical Review of World Energy datasets



## User Stories

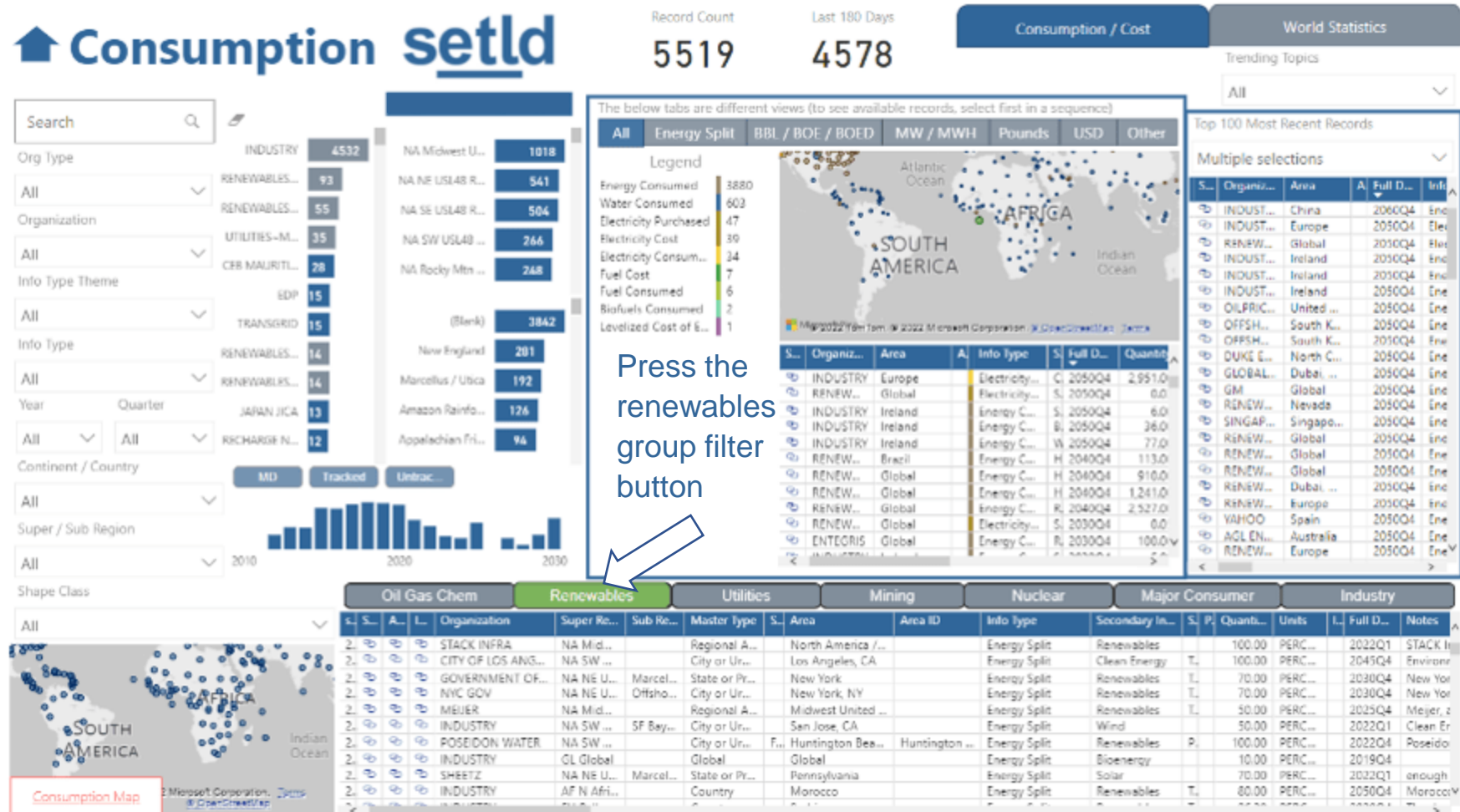
1. **How much energy is being consumed from renewable sources?**
2. What is reported electricity cost over time in the United States?
3. What are organization's energy consumption splits from renewable sources in the United States?
4. What are organization's global energy consumption split?
5. What new policy / rule has been passed about resource consumption recently?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases



# TOTEMM Power BI – Consumption

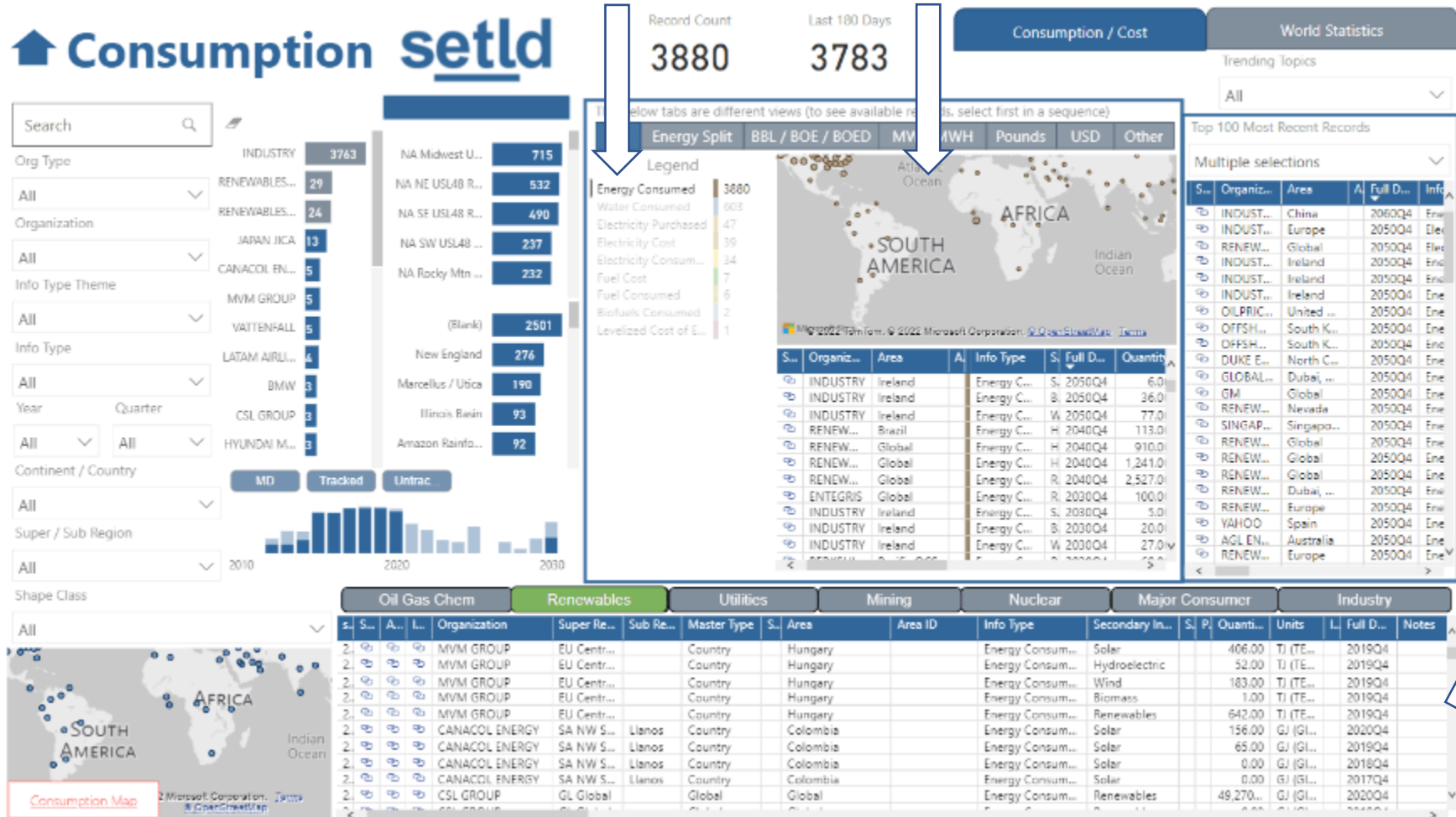
How much energy is being consumed from renewable sources?



# TOTEMM Power BI – Consumption

Select energy consumed from the legend in the central module

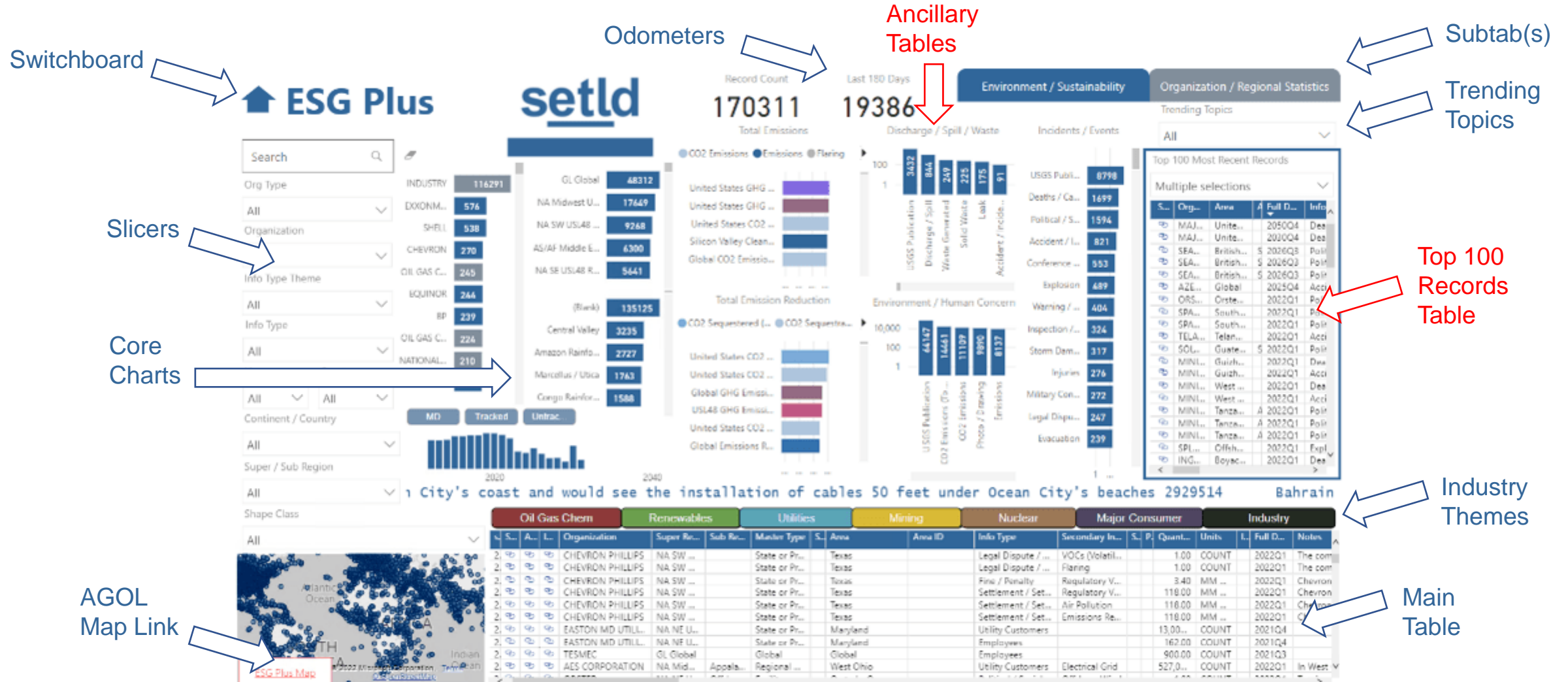
Review the central module's map and table



# TOTEMM Power BI – ESG Plus

## Purpose

See emissions / emissions reduction, spill / waste, incidents / events, company rankings, diversity, and other ESG metrics by organization and area



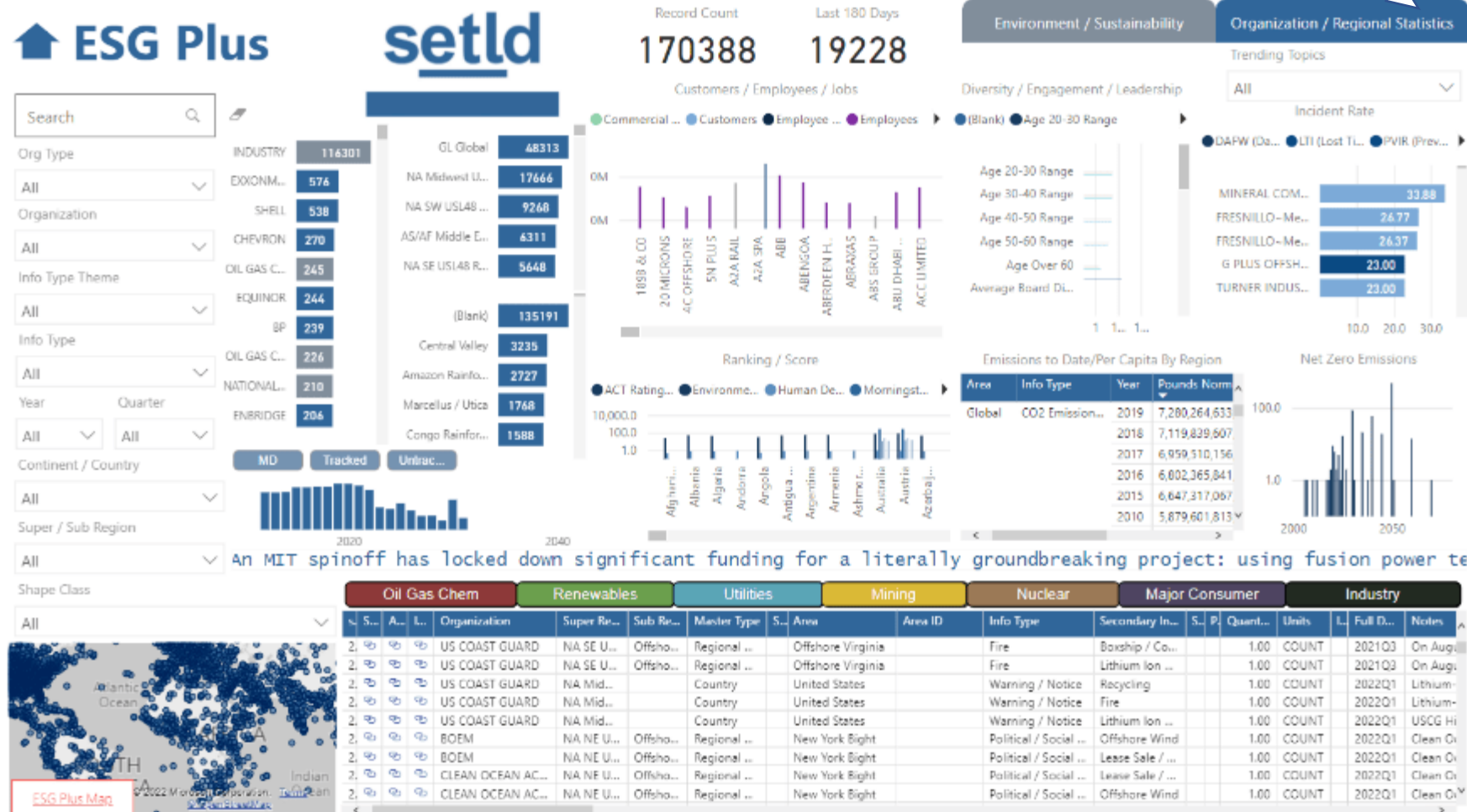
## User Stories

1. Where is Shell reducing emissions?
2. What COVID-19 related deaths or injuries occurred recently?
3. Where have Amplify Energy had a spill or leak recently?
4. What are some ESG sustainability ranking / scores for the United States?
5. **What are some ESG metrics and score comparisons between ExxonMobil and Shell?**

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Power BI – ESG Plus

What are some ESG metrics and score comparisons between ExxonMobil and Shell?



Switch to the company / regional statistics sub tab

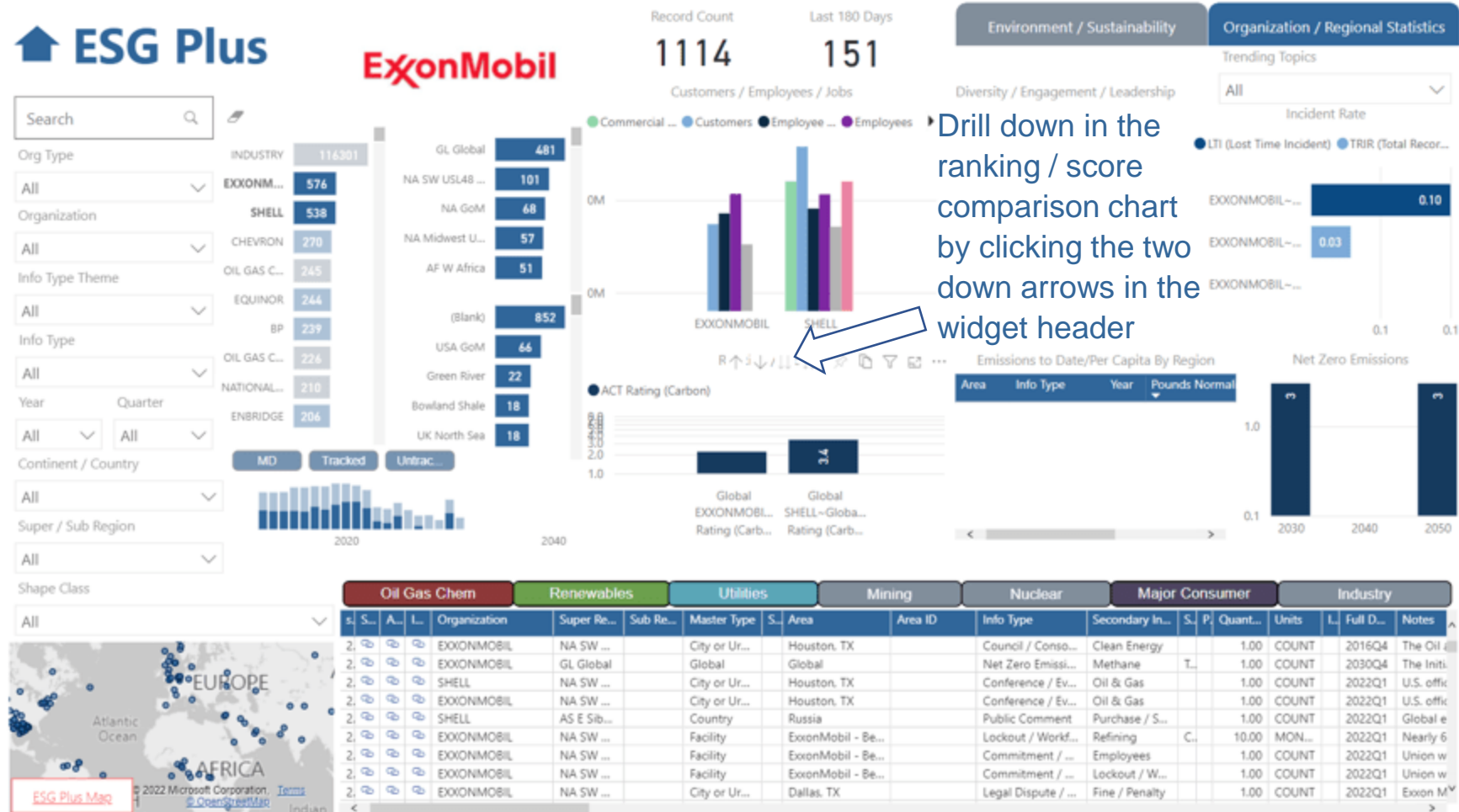


# TOTEMM Power BI – ESG Plus

Hold CTRL and  
select ExxonMobil  
and Shell



# TOTEMM Power BI – ESG Plus



# TOTEMM Power BI – Comparison

## Purpose

Utilitarian tab including all records to provide users a way to compare topics, organizations or regions

Switchboard

Info Type Groups

Subtab(s)

Trending Topics

Industry Themes

Slicers

AGOL Map Link

Comparison Module 1

Comparison Module 2

The screenshot displays the 'Comparison' tab in the TOTEMM Power BI interface. At the top, a 'Switchboard' contains buttons for various categories: Agreements (101027), Finance (515141), Land (51980), GG & GT (400259), Reserves & Potential (131163), Construct & Drill (85805), Initial Operations (34101), Production & Generation (251411), Site & Assets (923294), Transport & Storage (65336), Consumption (37481), and ESG Plus (170311). Below these are 'Info Type Groups' and 'Industry Themes' (Oil Gas Chem, Renewables, Utilities, Mining, Nuclear, Major Consumer, Industry). A 'Summary' button and a 'Trending Topic' dropdown are also present. On the left, a 'Slicers' panel includes filters for Org Type, Organization, Info Type Theme, Info Type, Year, Quarter, Continent / Country, Super / Sub Region, and Shape Class. The main content area features two identical comparison modules, 'Comparison Module 1' and 'Comparison Module 2'. Each module includes a search bar, a 'setld' logo, a 'BUREAU OF ECONOMIC GEOLOGY' logo, and a 'Record Count' section showing '2230861' and '392959'. Below this is a table with columns for 'Default', 'By Org', 'By Area', 's', 'S', 'A', 'L', 'Organiza...', 'Super Re...', 'Sub Re...', 'Master Type', 'S', 'Area', 'Area ID', 'Info Type', 'Seco...', 'S', 'Quant...', 'Units', 'L', 'Full D...'. The table contains data for various regions and topics, including 'INDUSTRY', 'TEXAS BEG', 'TEXAS BRC', 'CIL GAS CHE...', 'INTERA GEO...', and 'GENERAL ELE...'. At the bottom left, an 'AGOL Map Link' points to a map of North America.

## User Stories

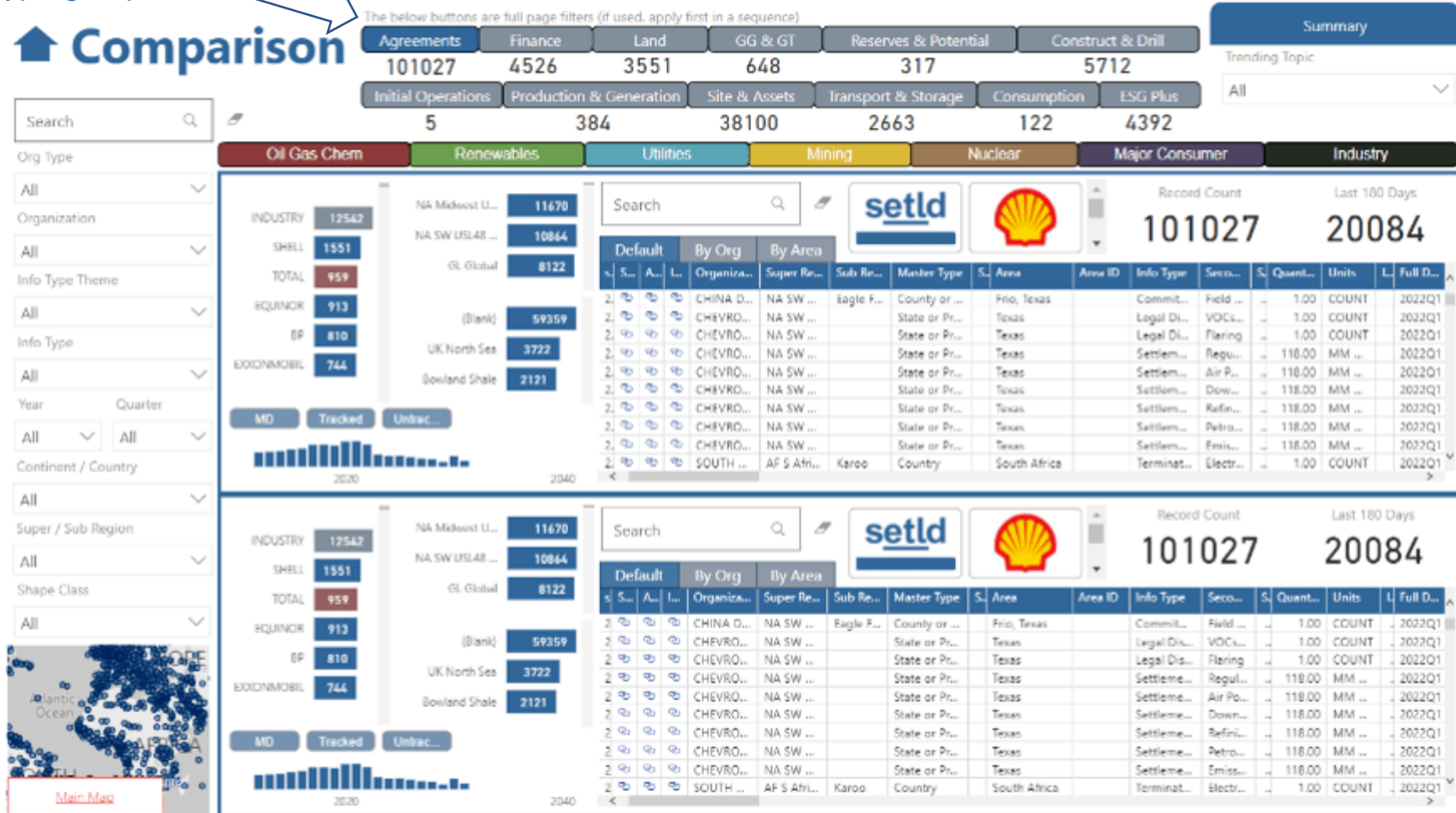
1. What is Shell's recent expenditures compared to BP's?
2. **What recent wind agreements are Shell and BP making?**
3. What organizations have asset areas in the Marcellus that have mostly utilities prevalent records?
4. What ESG initiatives are ENI taking compared to Repsol?
5. What organization's asset areas may be directly influenced by the war in Ukraine?

User stories ([see doc](#)) provide a basic introduction to each tab while showcasing select TOTEMM value cases

# TOTEMM Power BI – Comparison

## What recent wind agreements are Shell and BP making?

Click the  
agreements info  
type group button



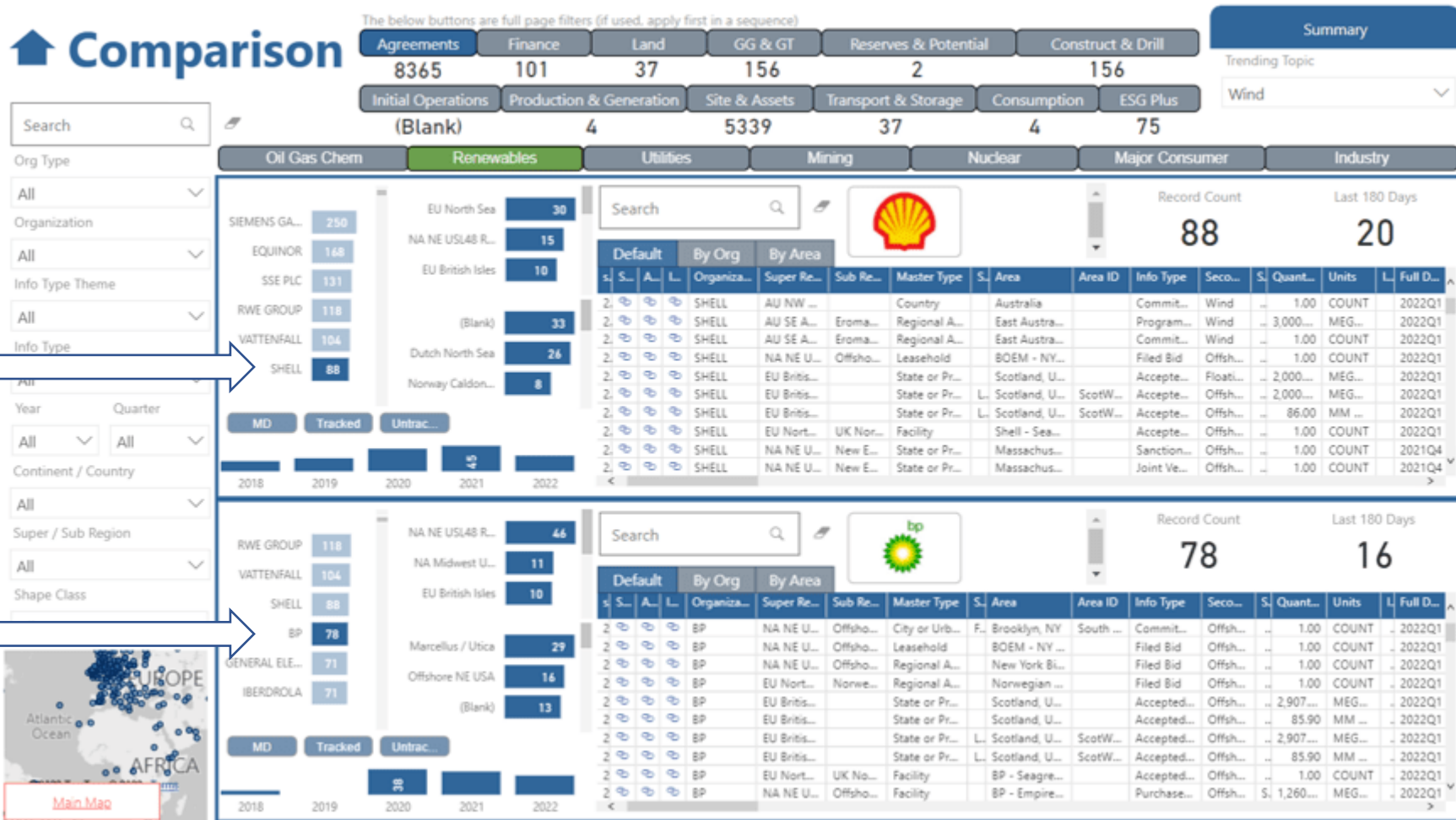


## ↑ Comparison

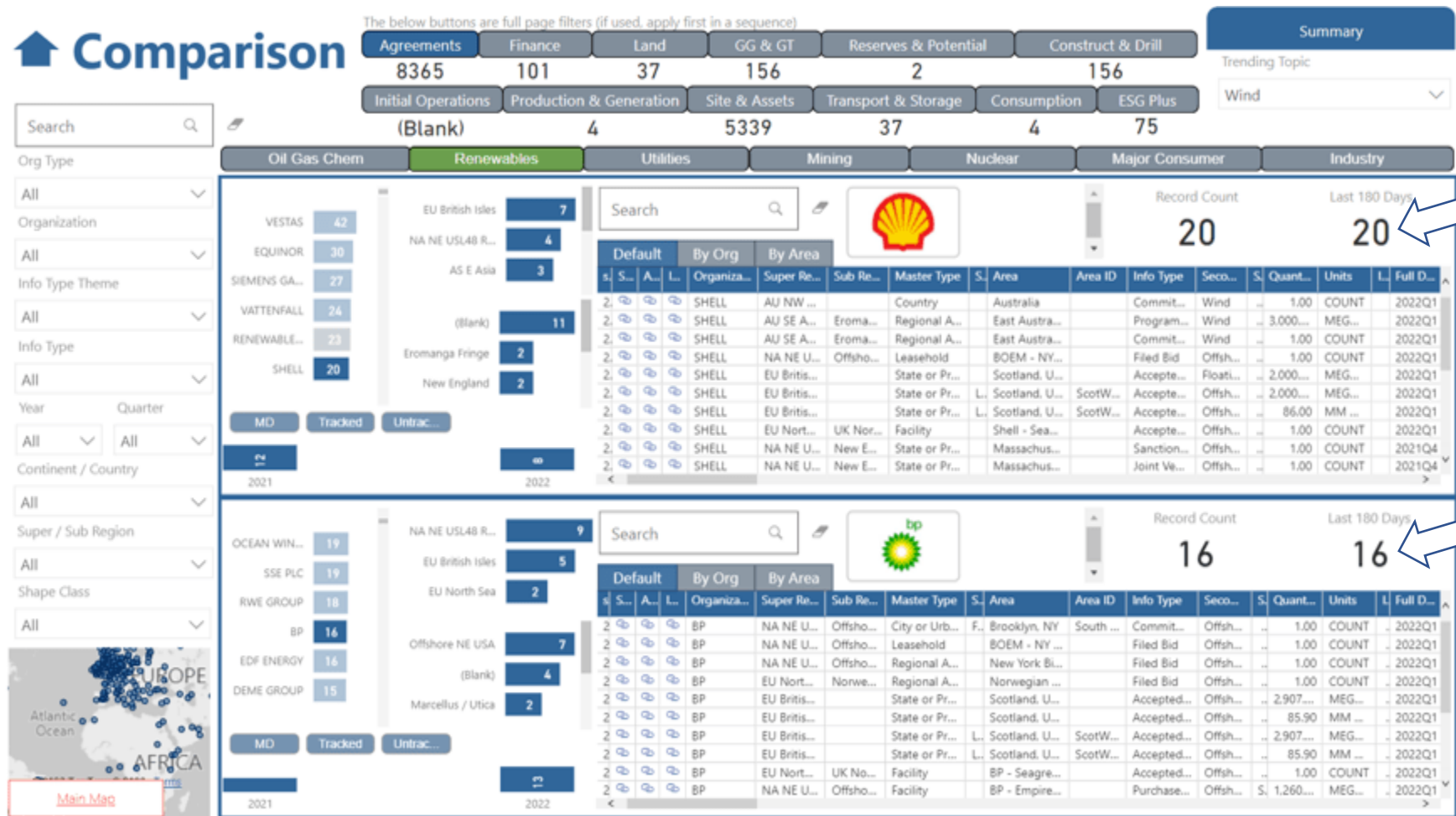


## ↑ Comparison

Hold CTRL and select BP from the second organization chart



# TOTEMM Power BI – Comparison



Hold CTRL and click the last 180 days odometer

Hold CTRL and click the last 180 days odometer

## **TOTEMM Data Product Deliverable Feature Classes, Tables and Views:**

1. GLB\_SETLD\_EBIS\_D\_PTS\_FLAT\_EXT
2. GLB\_SETLD\_EBIS\_D\_LNS\_FLAT\_EXT
3. GLB\_SETLD\_EBIS\_D\_LNS\_NODES\_EXT
4. GLB\_SETLD\_EBIS\_D\_PLY\_FLAT\_EXT
5. GLB\_SETLD\_EBIS\_D\_ALL\_FLAT\_EXT
6. GLB\_SETLD\_EBIS\_D\_TBL\_CALCS
7. GLB\_SETLD\_EBIS\_D\_ALL\_STACKED\_VW
  
8. Four SDE Relationship Classes:
  - GLB\_SETLD\_EBIS\_D\_TBL\_CALCS\_PTS\_FLAT\_EXT
  - GLB\_SETLD\_EBIS\_D\_TBL\_CALCS\_LNS\_FLAT\_EXT
  - GLB\_SETLD\_EBIS\_D\_TBL\_CALCS\_PLY\_FLAT\_EXT
  - GLB\_SETLD\_EBIS\_D\_TBL\_CALCS\_ALL\_FLAT\_EXT

# Interface URLs / Example Use Cases

## ArcGIS Online Web Mapping Experience:

<https://experience.arcgis.com/experience/4b3e22e917094bce9ac3d0069c884b88>

AGOL Tutorial – 01 Main:  
<https://youtu.be/atvnV00nqsA>

AGOL Tutorial – 06 GG & GT:  
<https://youtu.be/xjJrQVdngoU>

AGOL Tutorial – 11 Site & Assets:  
[https://youtu.be/n\\_2LThzJxe0](https://youtu.be/n_2LThzJxe0)

AGOL Tutorial – 02 News:  
<https://youtu.be/pQmduUEB-Zg>

AGOL Tutorial – 07 Reserves & Potential:  
[https://youtu.be/y6c\\_4f0h6Yo](https://youtu.be/y6c_4f0h6Yo)

AGOL Tutorial – 12 Transport & Storage:  
<https://youtu.be/mmA9uX9keX0>

AGOL Tutorial – 03 Agreements:  
<https://youtu.be/OqphM62FGJA>

AGOL Tutorial – 08 Construct & Drill:  
<https://youtu.be/4c2hULFwwTY>

AGOL Tutorial – 13 Consumption:  
<https://youtu.be/Xh8scG4sFMM>

AGOL Tutorial – 04 Finance:  
<https://youtu.be/0QHJUuXbXYy>

AGOL Tutorial – 09 Initial Ops:  
<https://youtu.be/7NtmzrwVSRA>

AGOL Tutorial – 14 ESG Plus:  
<https://youtu.be/jRr-Gn0MVZM>

AGOL Tutorial – 05 Land:  
<https://youtu.be/GBYXdE9Oio>

AGOL Tutorial – 10 Prod & Gen:  
<https://youtu.be/NfJ7qRBGFHU>

## Power BI Chart Template:

<https://app.powerbi.com/groups/me/reports/5a89cc8e-3352-4d47-bf72-6c2d33fb45d5>

Power BI Tutorial – 00 Intro:  
[https://youtu.be/7HwcqtK\\_H\\_Q](https://youtu.be/7HwcqtK_H_Q)

Power BI Tutorial – 05 Land:  
<https://youtu.be/hodNZ-elFqE>

Power BI Tutorial – 10 Prod & Gen:  
<https://youtu.be/gSS5c6-tV7U>

Power BI Tutorial – 15 Comparison:  
<https://youtu.be/iiFITw4X4AQ>

Power BI Tutorial – 01 Main:  
[https://youtu.be/QmF\\_0e\\_iGtw](https://youtu.be/QmF_0e_iGtw)

Power BI Tutorial – 06 GG & GT:  
<https://youtu.be/l95-W-8jV20>

Power BI Tutorial – 11 Sites & Assets:  
<https://youtu.be/ESIAbBtabcU>

Power BI Tutorial – 16 Matrix:  
<https://youtu.be/vAhJAioWUA8>

Power BI Tutorial – 02 News:  
<https://youtu.be/DDCg3EkWHSk>

Power BI Tutorial – 07 Reserves & Potential:  
<https://youtu.be/QtTQCoDr6YE>

Power BI Tutorial – 12 Transport & Storage:  
<https://youtu.be/rh1I1YR4Q-I>

Power BI Tutorial – 03 Agreements:  
<https://youtu.be/26rfJXXHctI>

Power BI Tutorial – 08 Construct & Drill:  
<https://youtu.be/7NEsJDBPA4E>

Power BI Tutorial – 13 Consumption:  
<https://youtu.be/LCS2xjhNK48>

Power BI Tutorial – 04 Finance:  
<https://youtu.be/5utWFy5ImW4>

Power BI Tutorial – 09 Initial Ops:  
[https://youtu.be/s982oiqd\\_xg](https://youtu.be/s982oiqd_xg)

Power BI Tutorial – 14 ESG Plus:  
<https://youtu.be/MP5D394x-G4>





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