

ENERKNOI

Tracking The Renewable Tidal Wave

ASES SOLAR 2023

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ENERKNOL

an energy regulatory data analytics company connecting market participants to a comprehensive universe of regulatory and legislative information, powered by real-time, enterprise SaaS technology.

PROBLEM: Tracking Regulatory Information Is Impossible



PROBLEM: Massive Amounts of Regulatory Information

FRAGMENTED

2,000

Distinct Gov't Bodies
Regulating Energy

PROFUSE

10K+

Filing Changes a Day

INEFFICIENT

Data organized by
government body,
not by sector

“Policy has potential to significantly impact what we are doing. Our pain point is the incredible volume of documents and activity...it is a challenge to identify what are the important pieces to determine the areas for us to engage.”

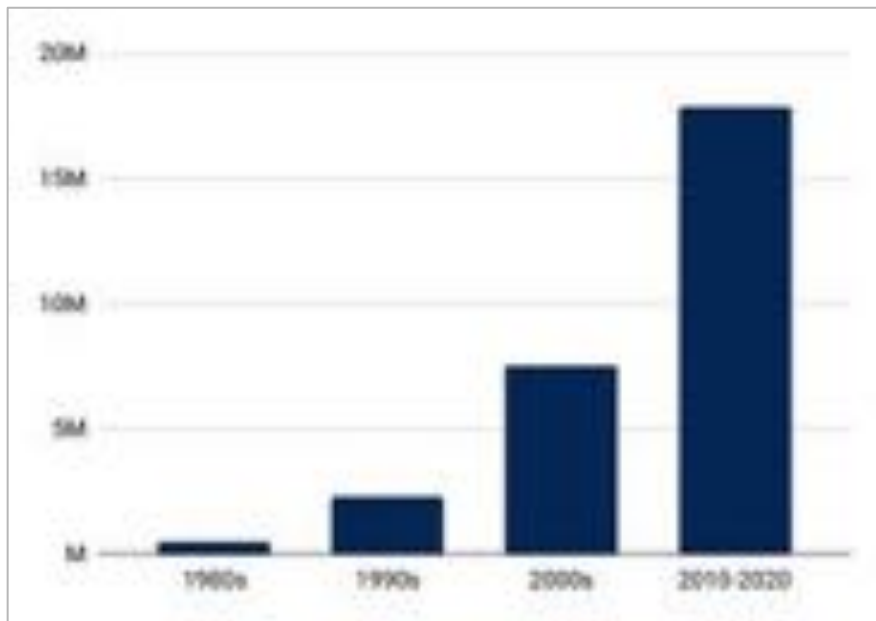
—EnerKnol Customer

PROBLEM: Tracking Regulatory Information Is Impossible

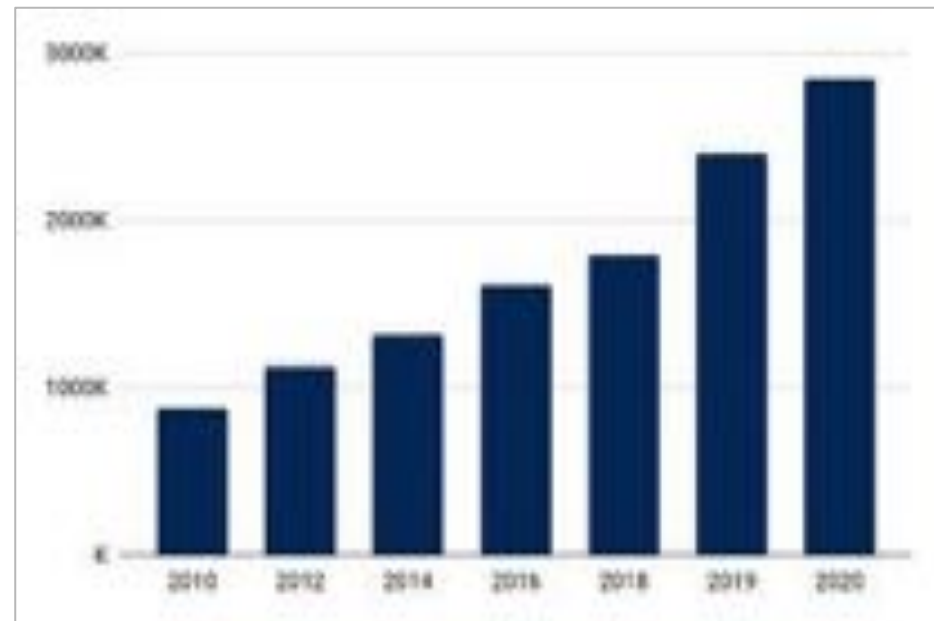
Energy-Related Regulatory and Policy Activity Is Continuing to Increase

Number of Filings

By Decade 1980s - 2020 (mm)



By Year 2010 - 2020 (000s)



Source: EnerKnol Platform



SOLUTION: TECHNOLOGY

TECHNOLOGY SOLUTION



Data Aggregation

- Custom Scrapers
- APIs
- Integrations



Data Ingestion & Analysis

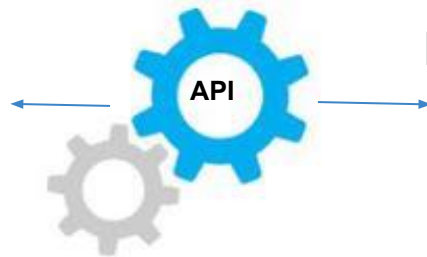
- Data Storage
- Algorithms
- Machine Learning



Feedback Loop

ENERKNOL

Insights



Platform



WHAT WE CREATED



Most Comprehensive Energy Regulation & Data Platform Built For Scale

Advanced Search & Tracking Abilities Delivering Business Impacting Results

Risk Mitigating Insights That Reduce Losses And Improve Decision Making

Revenue Impacting Intelligence Affecting Client Outcomes And Results

Unique Research Assets That Drive Key Energy Market Outlooks

Metadata Linking As The Foundation For Advanced Analytics

Regulations Impact All Energy Sub-Sectors

- ❑ EnerKnol is breaking down barriers to drive investment in the \$1.4 trillion U.S. energy industry
- ❑ regulatory and legislative environment affects all energy industry participants, from utilities, law firms and consultancies that serve them, to traders and investors
- ❑ EnerKnol already has customers across 7 distinct customer verticals:

✓ **Consulting Firms**

✓ **Financial Institutions**

✓ **Academia**

✓ **Law Firms**

✓ **Manufacturers**

✓ **Utilities**

✓ **Trade Associations**

ENERKNOL PRODUCT - TODAY

What We Have Built To Date

- ❑ Enterprise-grade commercial product in market; customers' lives improved
- ❑ Product-market fit: proven w/ Utilities; growing penetration w/ Legal & Finance
- ❑ 40M+ filings transformed into structured, 100% machine-readable text, PDF'd automatically in real-time
- ❑ Workflow: tracking, email alerts, sharing; 100% user-customizable
- ❑ First-of-kind search technology
- ❑ Software Patent filed, 5 Trademarks registered, 900+ copyrighted publications, 1 global event brand franchise

The EnerKnol Platform



THE RENEWABLE TIDAL WAVE

INTERACTIVE TOOLS: MAPPER



INTERACTIVE TOOLS: INTEGRATION

Illinois

Title: Renewable Portfolio Standard

Current RPS target: 40% by 2020, 100% carbon-

free by 2050

Carve-out:

Long term renewable procurement plan to procure 41,000,000 renewable energy credits delivered annually from new wind and solar projects by the end of delivery year 2026, procuring 45% from wind projects and 55% from photovoltaic projects; solar procurement to include 50% from distributed generation or community projects, 47% from utility scale projects, and 3% from brownfield site facilities that are not community projects.

Established: 2007

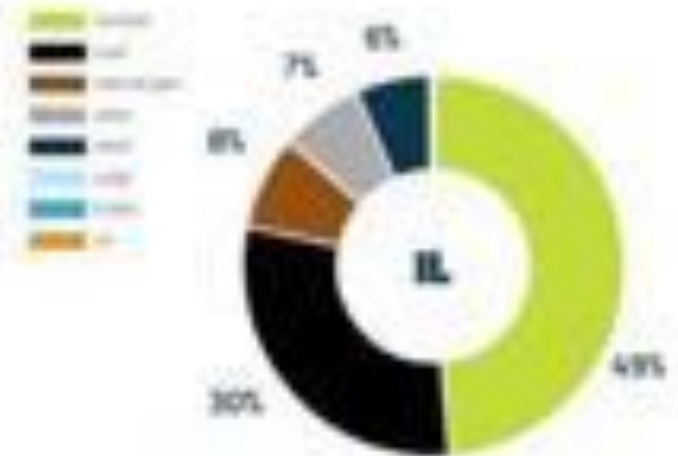
Statute, code or rule: [110CSA1, 110CSA1-0201H, 110CSA1-0201I \(2007\)](#)

Latest change: Sept. 11, 2011

Classes: None

Eligible technologies: anaerobic digestion, biomass, biomass, hydroelectric, landfill gas, solar photovoltaic, solar thermal electric, wind.

Net generation by sector, 2018



Hyperlinks lead to the primary source filing on the Platform



SEARCH, SAVE, TRACK, REPEAT!

Example Platform Functionalities

The Example Platform enables advanced search and filtering of things, including:

1. Data Source

Search by agency, state, or category type.

2. Document Type

Search by document type type, such as PDF or file.

3. All Status

Filter by agency, all status, from pre-approved to active.

4. Big Search

Search for multiple of companies and cities.

5. Data Range

Search by date for past and current things.

6. Keyword or ID Search

Search by keyword, document, or ID number.

7. Full Filter

Search by search results, user filter.

8. Advanced Search

Get through the page and get comprehensive results.



II. SEARCH, SAVE, TRACK, REPEAT!

★ > EnerKnol Tracker Inbox Update on Example Search 1: Renewable Portfolio Standard Legislatio...

The screenshot displays the EnerKnol Tracker interface. At the top left, there is a red circular logo and the text 'EnerKnol Tracker'. The main header area features the 'ENERKNOL' logo in large, bold, blue letters. Below the logo, a message reads 'NEW UPDATES TO YOUR TRACKED/SAVED SEARCHES'. The central part of the interface shows a search result card. The card has a blue header with the text 'Example Search 1: Renewable Energy Portfolio Standard Legislation'. Below this header, there is a small profile picture icon and the name 'John Doe'. The main body of the card contains the text 'Update on Example Search 1: Renewable Energy Portfolio Standard Legislation'. At the bottom of the card, there is a date 'May 18, 2024' and a small icon.

II. SEARCH, SAVE, TRACK, REPEAT!

EnerKnol Policy Monitors

Library of EK Searches curated by EnerKnol's Analysts to track the latest developments for select topics.

Alternative Energy

Fossil Fuels

Power and Utilities

Environmental Markets

Continuously Update Bill Monitor

Weekly tracks state and federal bills pertaining to community solar generation.

Energy Storage Bill Monitor

Tracks state and federal legislation pertaining to energy storage technology.

Net Metering Bill Monitor

Tracks state and federal legislation pertaining to net metering.

Offshore Wind Bill Monitor

Tracks state and federal bills pertaining to offshore wind generation.

Offshore Wind Study Monitor

Weekly tracks news items on offshore wind projects by state area.

Pumps Bill Monitor

Weekly tracks state and federal bills pertaining to the Public Utility Regulatory Policies Act of 1978, including implementation, amendments, and enforcement of

PROPRIETARY EK RESEARCH

ENERKNOL RESEARCH
ANALYSIS, RESEARCH, CONSULTING

Investment Selection and Valuation Services for U.S. Energy Sector
The application of proprietary research and analysis to the energy sector to assist in investment and valuation decisions.

Introduction

The energy sector is a key component of the U.S. economy and has long been a focus of investment. The sector's performance is closely tied to the global economy and the price of oil. The energy sector is a key component of the U.S. economy and has long been a focus of investment. The sector's performance is closely tied to the global economy and the price of oil.

Summary of Subsectors in the M&A

Subsector	Description
Oil & Gas	Includes upstream and downstream operations, including exploration, production, refining, and distribution.
Coal	Includes coal mining and power generation.
Nuclear	Includes nuclear power generation and related services.
Renewables	Includes solar, wind, and other renewable energy sources.
Utilities	Includes electric, gas, and water utilities.
Energy Services	Includes energy efficiency, energy storage, and other services.

PROPRIETARY EK RESEARCH

Pro-Respiratory Environments

Area	Key Findings	Implications	Recommendations
Indoor Air Quality	High levels of particulate matter and volatile organic compounds (VOCs) are associated with respiratory issues.	Increased risk of asthma and chronic bronchitis.	Use HEPA filters, improve ventilation, and reduce VOC sources.
Humidity	Optimal humidity levels (40-60%) reduce the survival of respiratory viruses.	Lower humidity increases the risk of viral infections.	Use humidifiers in dry climates and dehumidifiers in humid climates.
Temperature	Stable indoor temperatures (68-72°F) are associated with better respiratory health.	Extreme temperatures can exacerbate respiratory conditions.	Use programmable thermostats to maintain a stable indoor climate.
Lighting	Natural light exposure is linked to improved respiratory health and reduced absenteeism.	Artificial lighting may contribute to respiratory issues.	Maximize natural light and use high-quality artificial lighting.
Acoustic Environment	High noise levels in indoor environments are associated with increased respiratory symptoms.	Noise can irritate the respiratory tract and worsen conditions.	Use sound-absorbing materials and noise-reducing measures.
Microbiome	Diverse indoor microbiomes are associated with better respiratory health.	Overly sterile environments may increase the risk of respiratory infections.	Use natural cleaning products and maintain a balanced indoor ecosystem.

WHAT OUR USERS SEARCHED THIS WEEK...

- Biden Administration: IIJA, IRA, CHIPS Act: Where is the money going?
- Cybersecurity Regulations & Standards? Who's protecting what, and how?
- EVs: Battery Storage, Infrastructure, Manufacturing? Where are the Chargers going to be?
- Carbon-Pricing/Zero-Carbon Initiatives & Goals? Are States Meeting Them?
- OF/ON Wind Farms, Solar Panel , Hydro, Biofuel, Grid Modernization Projects?
- Russia/Ukraine-Europe Pipeline Implications? Russia & China's Siberia Pipeline?
- ...& Beyond

...TRY IT OUT!





QUESTIONS

Thank you!