



Revolutionizing Renewable Energy Operations

ZEMA™ Data Integration and Analytics Platform

ZEMA™ is an award-winning data integration and analytics platform designed specifically for the Renewable Energy Industry. ZEMA empowers Traders, Risk Managers, Business Analysts, and IT data management departments by providing a comprehensive solution to foresee and understand business-centric data effectively. With its revolutionary capabilities, ZEMA simplifies and enhances complex business practices, enabling organizations to stay ahead in the rapidly evolving renewable energy landscape.



Addressing Challenges

The Renewable Energy Industry and organizations navigating Energy Transition and decarbonization face unique challenges. ZEMA is committed to addressing these challenges head-on and providing innovative solutions to empower business players. Some of the core problems that ZEMA tackles include:

Fragmented Market Intelligence:

ZEMA consolidates and validates market intelligence from multiple sources, saving time and ensuring accurate decision-making.

Spreadsheet Reliance:

Replace error-prone spreadsheets with ZEMA's advanced analysis tools, minimizing data entry errors and improving governance.

Automation and Workflow:

ZEMA streamlines workflows and automates business logic, reducing human errors and enhancing market assessment accuracy.

Timely Market and Weather Intelligence:

ZEMA delivers complete and up-to-date market and weather intelligence, enabling organizations to seize opportunities and maximize revenue.

Siloed Data Challenges:

ZEMA eliminates data silos that hinder business decisions, risk management, and governance, ensuring holistic insights for informed strategies.

Compliance and Governance:

ZEMA promotes transparency, auditability, and compliance by establishing robust data processes aligned with governance policies.

Data Integration and Alignment:

ZEMA effortlessly handles non-aligned data formats, minimizing manual processes, and mitigating the risk of errors.



Solutions

Leveraging its successful track record of serving Fortune 500 organizations, ZEMA now brings its comprehensive data and analytics capabilities to the Renewable Energy industry. ZEMA offers scalability, versatility, hosting options, and an open architecture to support efficient data management and IT operations.

Key solutions provided by ZEMA include:

Fusion of Multi-Source Data:

ZEMA integrates data feeds from various authoritative sources, providing unparalleled visibility of critical market risks and opportunities.

Innovative Data Analysis:

ZEMA enables rapid implementation of data feeds for multi-faceted market analysis, empowering organizations with better decision-making capabilities.

Advanced Integration Methods:

ZEMA seamlessly integrates with downstream systems and third-party applications, enhancing operational efficiency and agility.

Robust Data Acquisition Pipeline:

ZEMA delivers a wide array of micro and macro data on aspects impacting Renewable Energy trade and operations, ensuring a comprehensive view.



Benefits

Discover the essential benefits of partnering with ZEMA as renewable energy and data utilization continue to rise:

Verified Market Intelligence:

ZEMA corroborates and validates multi-sourced market intelligence, enabling confident decision-making.

Intelligent Forecasting and Scheduling:

ZEMA empowers organizations with intelligent resource forecasting and scheduling, optimizing operations.

Comprehensive Data Analysis:

ZEMA expands data sources, including capacity, power generation, transmission, carbon emissions, weather, market data, and more, for thorough analysis.

Streamlined Data Collection:

ZEMA automates data collection and validation, reducing manual effort and improving overall efficiency.

Enhanced Scalability and Auditability:

ZEMA enhances scalability, transparency, and auditability of internal validation and analysis processes.

Robust Analytics Capabilities:

ZEMA provides powerful analytics capabilities, offering insights into market trends, pricing volatility, and renewable energy generation patterns.

Real-Time Monitoring and Proactive Decision-Making:

ZEMA enables real-time monitoring of energy trading activities, facilitating proactive decision-making based on accurate and timely data.

Smooth Integration and User Training:

ZEMA ensures a seamless integration process with minimal disruption to regular business operations, supported by expert ZE user training.

Improved Profitability and ROI:

By leveraging advanced analytics capabilities, organizations can achieve higher profitability through optimized energy trading strategies, reduced operational costs, and increased utilization of renewable energy resources.

Join the ZE Data Ecosystem

With ZEMA, clients gain access to ZE's Data Ecosystem and can enrich their market analysis process by tapping into 10,000+ unique data sources that are specific to the Renewable Energy and Energy Transition markets.



Renewable Energy Data Includes

Commodity	Data Source
Wind	3TIER
Carbon Emissions	The American Carbon Registry (ACR)
Carbon Emissions	Australian Energy Market Operator (AEMO)
Wind	Alberta Electric Systems Operator (AESO)
Weather	AIRNow
Wind	APG (The Netherlands)
Wind	AWS Truepower LLC
Weather	AccuWeather
Emissions	Amerex
Emissions	Argus Media
Weather	Atmospheric G2
Water	BAFU - Swiss Authority of Environment
Emissions	BGC Environmental Brokerage
Weather	BMRS
Wind	BMRS
Wind	BPA
Weather	Bentek (S&P Commodity insights)
Wind	Bentek (S&P Commodity insights)
Weather	Bonneville
Emissions	CBL (Xpansiv)
Water	California Department of Water Resources (CDWR)
Weather	CME
Weather	Climate Prediction Center (CPC)
Carbon Emissions	California Carbon
Emissions	Canada Government
Carbon Emissions	Carbon Match

Renewable Energy Data Includes

Commodity	Data Source
Emissions	ClearBlue Markets
Carbon Emissions	ClearBlue Markets
Emissions	CoalDesk
Weather	Commodity Weather Group
Hydro	Commodity Weather Group
Weather & Hydrology	ConWx
Wind	DNV GL
Weather	DTN
Weather	DWD
Weather	EARTHSAT
Emissions	EEX
Weather	EIA
Wind	EIR Grid
Emissions	EPA
Wind	ERCOT
Weather	ERCOT Nodal
Carbon Emissions	EVO
Weather	Earth Networks
Weather	Earth Risk Tech
Weather	Environment Canada
Weather	FMI
Wind	Frontier Weather
Carbon Emissions	GS
Hydro	GeoGrain
Water	HND Bayern
Carbon Emissions	ICIS (Heren)

Renewable Energy Data Includes

Commodity	Data Source
Emissions	TPICAP
Weather	TPICAP
Emissions	ICE
Carbon Emissions	Jarden CommTrade
Weather	KNMI
Emissions	KRX
Emissions	Karbone
Carbon Emissions	LEBA
Water	LUBW
Weather	MADIS
Wind	Markedskraft
Weather	Maxar
Weather	MetDesk
Weather	Meteo Group
Wind	NEISO
Weather	NOAA
Water	NVE
Weather	National Grid
Carbon Emissions	NordPool
Water	OMSZ
Carbon Emissions	OPIS (a DOW Jones Company)
Emissions	OPIS (a DOW Jones Company)
Wind	PJM
Weather	PRT
Wind	PSE

Renewable Energy Data Includes

Commodity	Data Source
Water	RTE France
Weather	Maxar
Weather	Rutgers GSL
Water	SAIH
Wind	SEMO
Weather	SMHI
Weather	SNOTEL
Weather	SO UPS
Emissions	Spectron
Weather	Spectron
Weather	Speedwell Weather
Weather	StormGeo
Weather	StormVista
Wind	StormVista
Emissions	TCEQ
Carbon Emissions	TCEQ
Water	TVA
Weather	Tesla Forecast
Wind	Tesla Forecast
Weather	The Weather Channel
Water	Transelectrica
Hydro	USAC
Water	USAC
Water	USGS
Weather	UWYO

Renewable Energy Data Includes

Commodity	Data Source
Carbon Emissions	Verra
Water	Vigicrues
Weather	WAQI
Weather	WDT
Weather	WSI
Wind	WSI
Hydro	Wattsight
Wind	Wattsight
Weather	Weather Insight
Weather	Weather Underground
Weather	WeatherForYou
Weather	Weatherzone
Weather	Windfinder
Weather	Xoserve
Carbon Emissions	Xpansiv

Need More Information?

To learn more about the ZEMA™ Data Integration and Analytics Platform, please visit www.ze.com/products. ZE offers a range of solutions tailored to the needs of the renewable energy industry, helping organizations optimize their operations and drive sustainable growth.



About ZE PowerGroup

Established in 1995, ZE's sole purpose is to help clients be more efficient through information automation and superior services. ZE is the developer of ZEMA™, a comprehensive software solution for resolving market data, and data management, and business process automation challenges. By providing unrivalled data collection, analytics, curve management, and integration capabilities, ZEMA offers end-to-end automated business process solutions for clients in all markets and industries.

Vancouver | Houston | London | Singapore

130-5920 No. Two Road, Richmond, BC V7C 4R9 Canada
Toll Free: 1-866-944-1469 | www.ze.com | email: info@ze.com

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Data. We Get It.