



Digital Energy Management for Sustainability

[www.vtcenergy.com](http://www.vtcenergy.com)

**FORTUNE**  
**500**

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**Turkey's Top 500 Companies**  
**We are proud to be among them!**

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As **VTC Energy**, we are one of the key players in the sector with a sustainable energy management perspective, and we provide digital energy management for companies with the software we have developed. With the work we have done, we are among the "**Turkiye's Top 500 Companies**" in the Fortune 500 - Turkiye list published by Fortune magazine in 2021 and 2022.

The digital energy management platform V-Gen product family, developed by our company's expert staff is integrated with different markets and manages the energy of power generation plants regardless of the source.

Our balance responsible party is one of the largest balancing parties in Turkiye with a capacity of **5.5 GW** and provides up to **100%** advantage to our stakeholders every year.

In 2023, 158.7 billion telemetry data were monitored with V-Sensor, our IoT-based energy monitoring platform. Over 7.5 GWh trading volume took place in our energy trading platform V-Gen throughout the year.



**VTC ENERGY**

# COMMERCIALS OF VTC ENERGY



## Customers

As a company in the Fortune 500 list for 2021 and 2022, we have 500+ industrial clients, which 90% of the total transaction volume of is from companies in the Fortune 500 list.

## Locations

We provide solutions to our customers from our offices in **Kocaeli, Istanbul, Gaziantep and Berlin.**

## Our Team

We have 95 employees, 55 of whom are **engineers and postgraduated engineers**, all of whom are experts in their fields.

## Sectors

We serve to many different sectors such as Energy, Construction, Textile, Tourism, Food, Chemical, Petroleum, Tire, Iron and Steel.

## R&D

We have 6 successfully completed R&D projects, one of them is a **TEYDEB** project supported by **TÜBİTAK.**

## Balancing Group

We provide up to **100%** advantage to our participants with our Balancing Group which has **5.500 MWh** capacity.



# PRODUCT AND SERVICE



## Energy Management

We remotely monitor our customers energy and minimize their costs. We provide Day-Ahead Market and Intraday Market integrations, cost optimization, production planning and portfolio management services.

\*\*Not every feature is available for every market



## Carbon Trading

We enables the enterprises that produce with green energy to acquire I-REC, which is the International Renewable Energy Certificate, as soon as possible according to the amount and resource type they demand.



## Energy Efficiency Management

We provide an end-to-end management audit in all energy efficiency issues, especially energy surveys, VAP (Efficiency Increasing Projects) and **ISO-50001** Energy Management System projects with our expert and certified team members.



## Renewable Energy

We manage system operator processes of licensed power plants. We reduce imbalance costs with day-ahead and intraday wind and solar forecasts. We manage the **Cancellation Statement processes of Renewable Energy Certificate, Issue Certificate and Carbon Certificates.**



## Artificial Intelligence Solutions

We provide day-ahead and intraday **production and consumption forecasting** services with artificial intelligence and machine learning algorithms.



## Monitoring - IIoT

We provide all the components your industrial facility needs for digital transformation with a holistic perspective. We securely transform your data into added value with specially designed **IIoT devices.**

# VTC V-Market

V-Market is a software product that effectively manages energy trading by enabling members operating in energy markets to digitally integrate with the product offered by the market operator. V-Market enables trading in day-ahead, intraday and ancillary services markets, as well as the management of bilateral agreements in over-the-counter markets. It offers ready-made algorithms for all traded markets and a wide range of options to reflect your own energy trading strategy. V-Market integrates EPEX SPOT, Nord Pool, EPIAŞ and other exchanges to facilitate seamless trading and information flow.

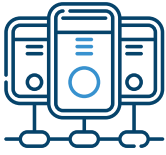
## Key Benefit

- Management of all market transactions from a single center.
- Instant position tracking with real-time integrations
- Access from all devices with its web-based design
- Manage imbalances effectively and track your positions easily
- Compare and analyze different data sources and scenarios
- Optimize your trading strategies and maximize your profits
- Fast and error-free operation capability with user-friendly design



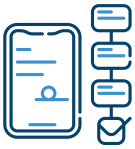
## Who is it for?

- Energy Trading Companies
- Wind Farms
- Solar Power Plants
- Hydroelectric Power Plants
- Geothermal Power Plants
- Thermal Power Plants
- Factories That Produce Their Own Energy



### Multi Market Management

Companies can optimize their energy generation and consumption assets by participating in multiple markets, adapting strategies based on market conditions. V-Market integrates EPEX SPOT, Nord Pool, EPIAŞ and other exchanges to facilitate seamless trading and information flow. Multi-market management in the energy sector involves navigating the complexities of different energy exchanges, optimizing trading strategies, and leveraging specialized software and tools to ensure efficient operations and risk management.



### Algotrade

Energy markets are dynamic and complex, requiring traders to constantly monitor prices, supply, demand, and other factors. Manual trading can be time-consuming, error-prone, and inefficient. That's why we offer you Algo-trading, a key feature of our software product that integrates to energy exchanges. Algo-trading allows you to design and execute algorithms on the energy market, using Python, C# or JavaScript. You can create your own custom strategies, or use our predefined templates, to automate your trading decisions and optimize your performance.



### Intraday Market

Orders can be submitted to the intraday markets either manually or automatically in accordance with the strategies determined by the users. Orders can be monitored instantly on the screens, and users are notified for each change. Users can easily define new strategies by considering different dimensions like price, time, limits etc. Based on the market events such as contract closing times and contract openings, multi-step strategies can be defined. Most of the scenarios can be covered without requiring any coding skills. Position holding strategies can be applied for frequently changing production schedules, such as renewable power plants.



### Real-Time Data Flow

A powerful way to trade energy markets are volatile and uncertain, requiring traders to have access to the most accurate and up-to-date information. Manual data collection and analysis can be slow, incomplete, and unreliable. Real-Time Data Flow allows you to get the real-time energy data from our other software products V-Gen, V-Sensor, and V-Forecast, and use it to make informed and timely trading decisions. It can also be integrated with your existing products seamlessly.



### Reports

V-Market Reports allows you to get the real-time energy data from our other software products V-Gen, V-Sensor, and V-Forecast, and use it to monitor your energy trading performance. With the ready to use reports, users can see real-time positions, imbalance quantities, profit and loss in a user-friendly dashboard. Actual and forecasted data can be monitored and identified for the deviations or anomalies. Reports can be exported and shared as excel files.



### Day-Ahead Market

Auctions for day-ahead markets can be entered manually or it can be prepared and transmitted automatically with forecast integrations. Cascading orders are prepared easily with the pre-defined price levels. In case there are any points that have not yet been entered during the control hours determined before the last entry time, the relevant users are notified. The matching results announced by the market operator are automatically retrieved by the system and users are informed.

We are investing in energy efficiency studies and striving to make the future of our world sustainable!

A data visualization consisting of a grid of horizontal bars. There are five columns and ten rows of bars, all rendered in a light blue color, representing a structured dataset.



 BERLİN

 KOCAELİ

 GAZİANTEP

 İSTANBUL



## Digital Energy Management for Sustainability



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