



Headquarter:
F 3 Sector 3,
Noida
www.jktech.com/

Solution Overview

JK Technosoft provides an integrated and highly efficient approach to aggregate multitude of data required to estimate energy needs in real-time from various third party providers to **ENERGY TRADING COMPANIES in the UK and the US using Microsoft BizTalk Server**. A Layer of **PowerBI** can enhance the experience of traders by visualizing the reports and data in real-time from various exchanges.

Overview

Differentiators

JK Technosoft's integrated solutions for **Energy Trading Industry** provides highly automated and efficient data collection and integration platform to aggregate and process data from various energy exchanges to Demand Forecasting Systems and Energy Trading and Risk Management Systems.

Key Features

- Automation at Its Best
 - No rules or human intervention needed.
 - Out-of-the-box solution starts working within seconds of installation.
- Transport and Messaging:
 - Support different transport channels **like MSMQ, SFTP, FTP, Web service, WCF service, Http.**
 - Support different message encoding like flat file, .csv, .xls, xml, json files.
- Reporting
 - Real-time reporting based on the data processed by Biztalk server.
 - Show Trading data in Power BI Dashboard.
 - Easily forecast the potential consumption of energy on half hourly basis and accordingly sell/purchase or generate the electricity.
- Reprocessing and Tracking/ Alerts
 - End to end Tracking using Business Activity Monitoring Tools.
 - Email Alert in case of any issues with action steps in email body.

Customer Pain Points Addressed

- We have huge data files viz 50 to 100 MB files. But no way to open and process the files in any editor like notepad++ and excel.
- Manual intervention required to download file from FTP, SFTP and subsequently convert unstructured data into structured/expected format.
- Duplicate data process impact on trading and business.
- Reprocessing and conversion of data from yearly/monthly to Half Hour Granularity to trading system is difficult to handle.
- We need to have visibility into what is happening to our organization.
- We have not found the solution that quickly build, test and deploy, also effective to meet our timelines.

Typical Questions

1. **Question:** Our current data providers only provide data in .CSV or Excel Files over the email or we manually retrieve files and process them. Can this task be automated so that we save our precious resource times from these mundane works?

Answer: Yes, our integrated solutions using BizTalk Server has out-of-the box support for CSV and Excel files and can auto-retrieve data from various locations such as Email, FTP, or a web store.

2. **Question:** How large files can be processed by the integrated solutions?

Answer: BizTalk can programmatically read and process files much larger than any manual programs can open. Such as a 100 MB file will take forever to open in a desktop application but BizTalk can read it in real time and process the data to a meaningful format. BizTalk also has the capabilities of chunking data in different sizes for efficiency.

- Read-time data processing.
- Sync / Asynchronous data processing.
- If any data fails by any means, BizTalk provides capability to resume data from exact failure point- no single point of failure.
- Seamlessly connect mission critical applications, Integrate and communicate with any application that exists in current world.
- Can work with any messaging encoding format like xml, html, csv, excel, json, EDI, SWIFT etc.
- Addition of any new system in existing landscape with minimal configuration.

