# FUEL MONITORING SOFTWARE

trakzee

www.uffizio.com

Monitor Your Fuel Usage with Confidence

Introducing state-of-the-art fuel monitoring software. The ultimate solution to help your clients manage fuel usage like never before! Say goodbye to manual tracking and costly errors. With accurate and real-time data on fuel consumption, optimize your fuel usage.

You can easily:

- set fuel usage thresholds for fuel level drops.
- configure alerts for fuel fill, drain and refill.
- receive real-time notifications on any unusual fuel activity.
- get fuel refill history, optimize fuel usage and reduce costs.

Let our fuel monitoring software take the guesswork out of fuel management, and let your customers enjoy peace of mind knowing fuel reserves are secure.
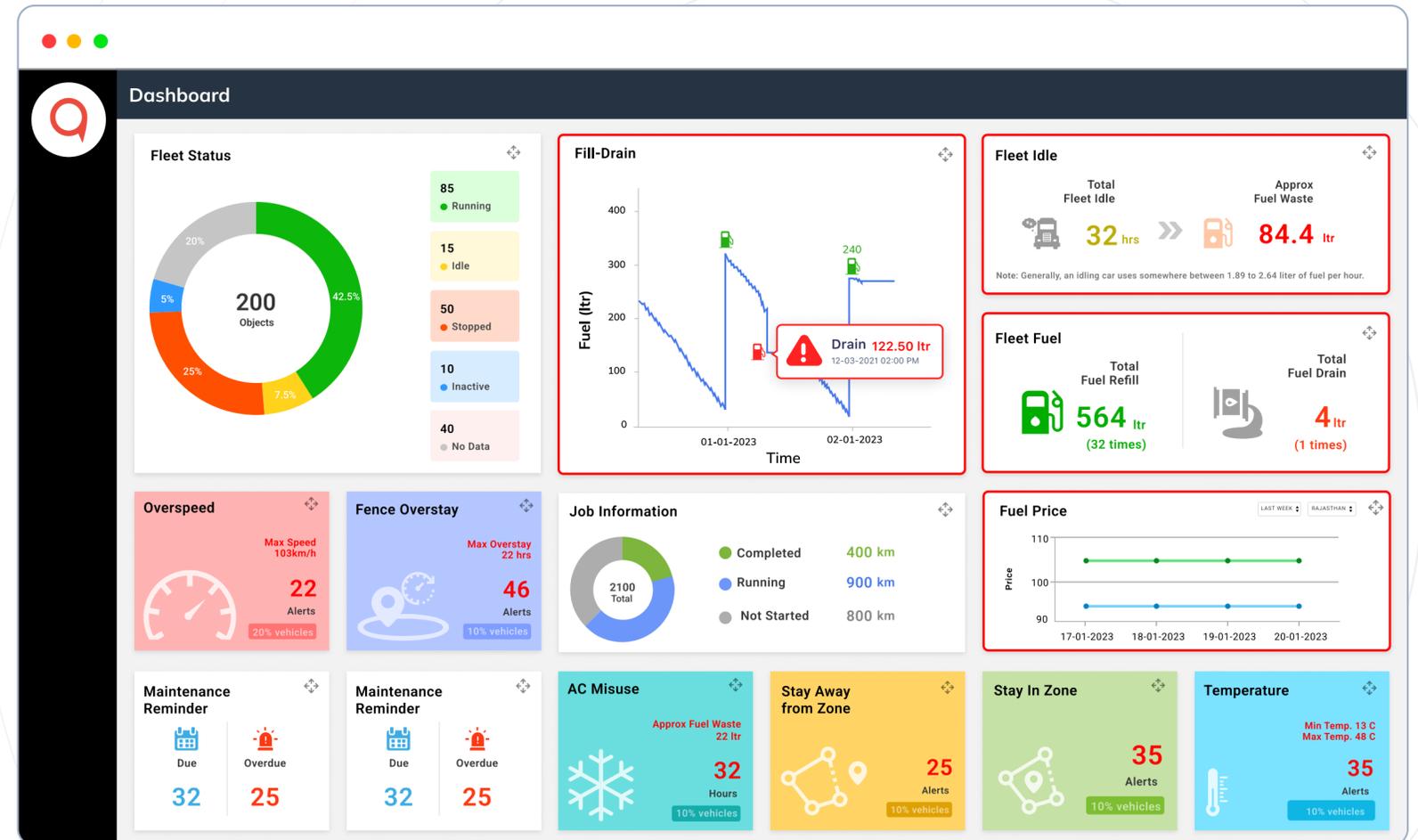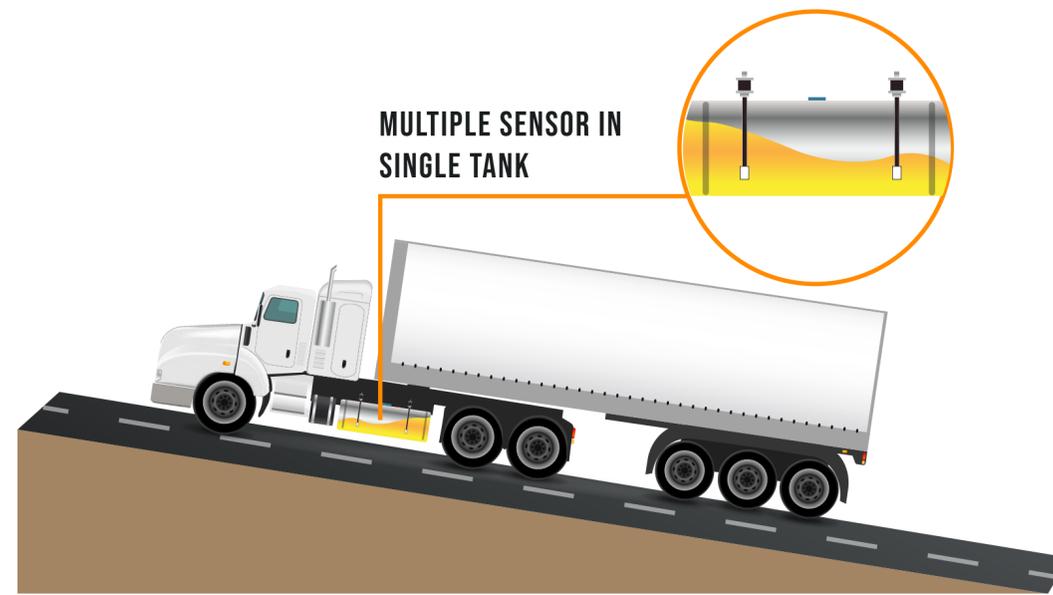
Monitor Fuel Levels

Effortlessly monitor accurate fuel levels, fuel refill, and fuel drain for multiple scenarios such as -
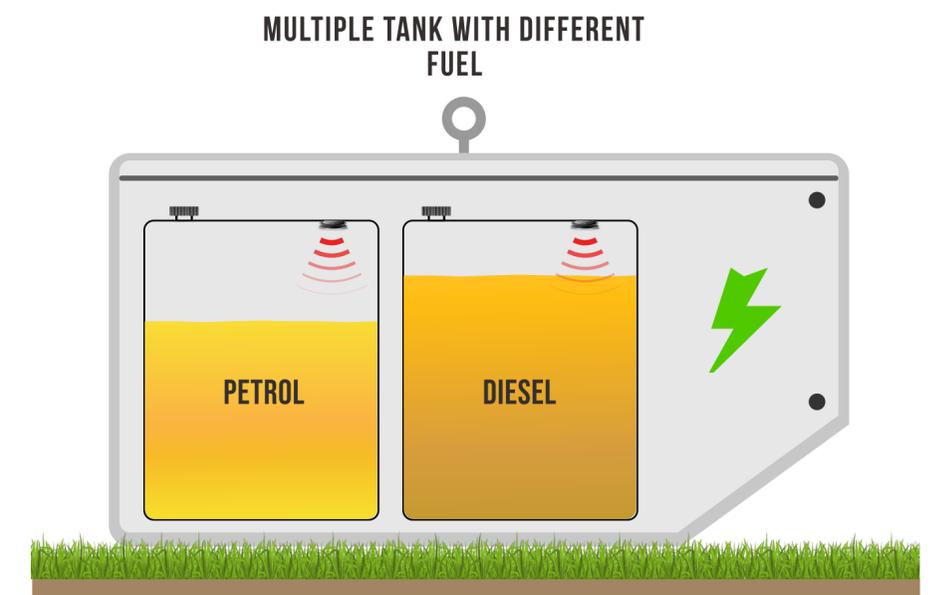
Multiple tanks in single vehicle

MULTIPLE TANKS IN SINGLE VEHICLE
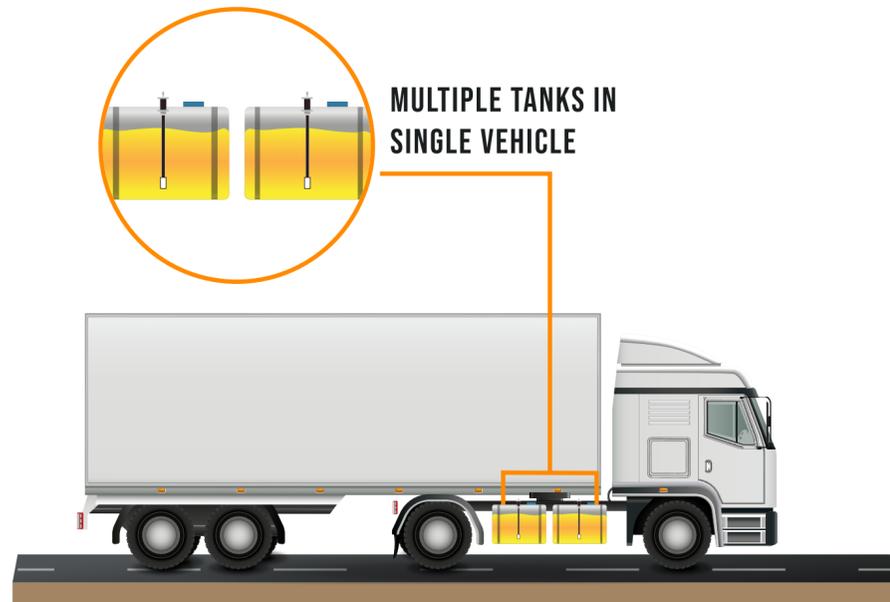
Multiple sensors in a single tank

MULTIPLE SENSOR IN SINGLE TANK

Multiple tank with different fuel

MULTIPLE TANK WITH DIFFERENT FUEL

PETROL   DIESEL

Compatible with Any Fuel Sensor

The flexibility to work with any type of fuel sensor, eliminates the need for specific systems tied to a particular manufacturer or type of sensor. This gives your clients the freedom to choose the sensors that best fit their needs, without being limited to a single model.

ULTRASONIC SENSOR

CAPACITIVE SENSOR
(WIRED/ BLUETOOTH)

Our system is compatible with

FUEL FLOW METER
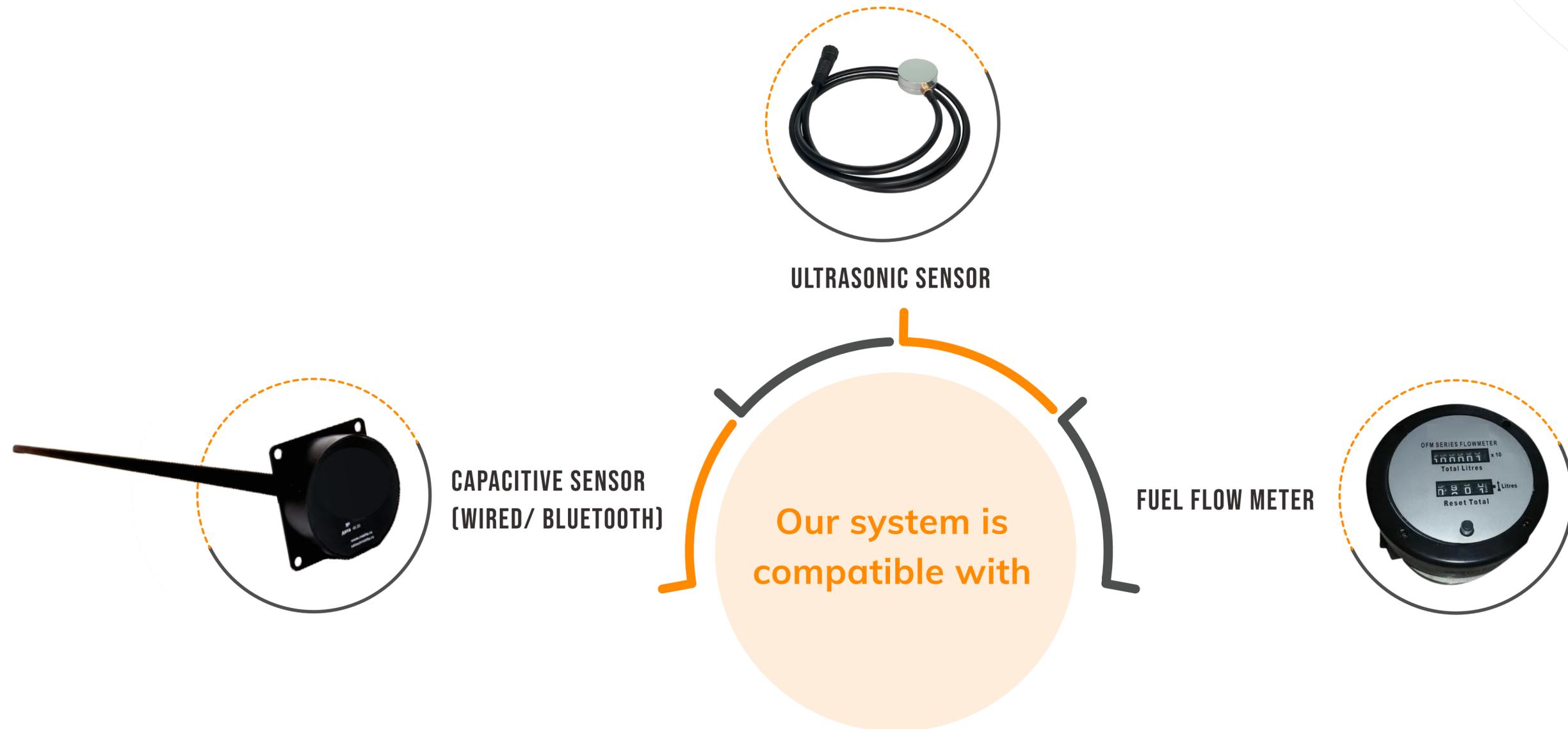
Fuel Theft Detection

The system continuously monitors fuel levels and identifies any sudden drops in fuel levels, indicating possible fuel theft.

Key Highlights

Configure Threshold
User can define threshold for fuel level drops to configure alerts based on it.

Fuel Theft Alerts
Real-time alerts are sent when sudden drop in fuel level is detected.

Fuel Theft Reports
The algorithm can analyze fuel usage patterns and generate various reports to help identify potential theft.

Fuel Drain 5 ltr
Vehicle Hyundai CC-450 detected fuel theft at 04:55 PM near Belgrave Town

Fill-Drain

Drain 122.50 ltr
12-03-2021 02:00 PM

240

Fuel (ltr)

400
300
200
100
0

01-01-2023   02-01-2023

Time

Alert Detail

Vehicle	GJ15 AA 2310
Alert Name	Fuel Theft
Alert Type	Fuel Refill
Valid days	◯ Everyday ⦿ Custom
Valid from	11:30 AM to 02:30 PM
Action	☐ SMS ☐ Email ☐ Notify

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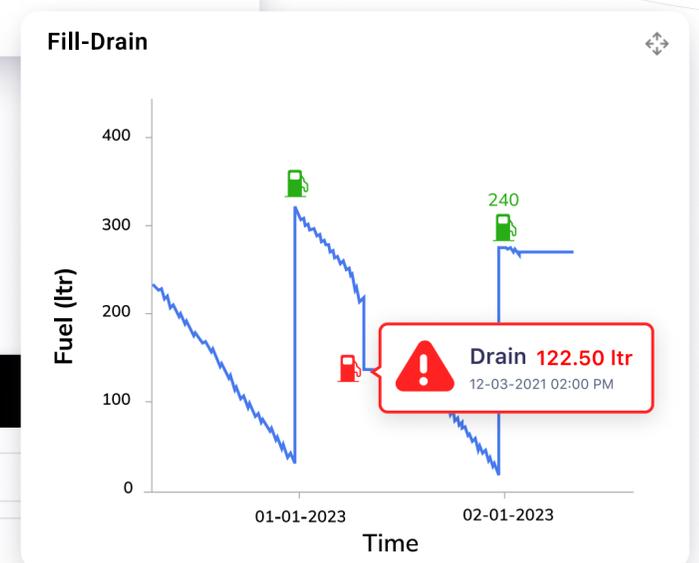
Critical Fuel Alerts

Get push notifications via SMS, email, or on web application. Let your clients can stay on top of your fuel levels and usage no matter where they are.

Key Highlights

Low Fuel Level Alerts
Get notified when the fuel level of a particular vehicle drops below a predefined level.

Fuel Theft Alerts
Get immediate alerts on sudden drops in fuel levels.

Unusual Fuel Usage Alerts
Get notified when fuel consumption is higher or lower than expected, based on predefined thresholds.

trakzee   35m ago
Low Fuel
Honda C73 fuel level is below 10ltrs. Need refuelling

trakzee   10m ago
Fuel Pilferage
Vehicle No 7749 detected fuel pilferage at Park Enclosed

trakzee   41m ago
Unusual fuel usage
Detected fuel consumption more than usual in Vehicle 7583.

Detailed Fuel Insights

The software not only provides real-time data on fuel usage, but also generates detailed reports for analysis.

Key highlights

- ### Fuel Fill Drain Report
  Get information about the amount of fuel filled or drained from the tanks over the period of time.

- ### Fuel Consumption Report
  The report includes data such as fuel consumption based on distance, fuel consumption based on time, idle time etc .

- ### Fuel Economy Report
  Analyze fuel usage over time, enabling users to identify fuel-saving opportunities.

- ### Abnormal Consumption Report
  Identify any instances of abnormal fuel consumption or loss due to factors such as theft, leakage, or mechanical issues.

Fill-Drain Summary

Port Name	Date Time	Location	Before Event	After Event	Difference	Event Type
Fuel Level	04-05-2021 01:24:53 PM	Giraffe Hill Drive	12.60	28.80	16.20	Fill
Fuel Level						
Fuel Level						
Fuel Level						
Fuel Level						
Fuel Level						

Fuel Consumption

Company	Object Brand	Object Model	Distance	Working Duration	Fuel Waste	Fuel Consumption	
						Distance Based Fuel	Duration Based Fuel
Telecom	Acure	ILX	88.60	54:32	5.42	10.20	15.62
Abu dhabi							
Al Ain Vehi							
Dubai vehicle							
Sharjah							
Zajal							

Fuel Economy

Company	Distance	Start Fuel Level	Average Speed	Max Speed	No Of Fill	Drian	End Fuel Level	Total Load	Mileage Based On Distance
Aman Q	91.80	152.10	31	99	159..70	0.00	262.60	0.00	1.87
Farhan A									
Uffizio									
Al Qadsyah									
Aman									
Farhan									

Fuel Abnormal Consumption

Vessel	Distance	Work Duration	Fuel Usage	Predefined Mileage		Actual Mileage	
				Distance	Duration	Distance	Duration
HL52	510 nm	12:15	20	475	09:30	510	12:15
DBL68	640 nm	15:00	15	550	12:30	640	15:00
HL45	210 nm	05:30	10	200	05:00	210	05:30
ZXL80	970 nm	02:30	20	900	02:00	970	02:30
ABC90	461 nm	17:15	3	400	16:00	461	17:15
JBE25	461 nm	16:25	2	425	15:00	461	16:25

Visual Fuel Usage Trends

Get visual representation of fuel usage data, making it easier for users to analyze and understand complex information.

Key highlights

Fuel Fill-drain Chart
The chart shows the amount of fuel that was added to the tank (the fill) and the amount of fuel that was consumed or removed from the tank (the drain) over a specific period of time, usually a day or a week.

Fuel Economy Chart
Fuel efficiency of a particular vehicle or equipment over a period of time is shown in this chart. It plots the fuel consumption against the distance traveled, providing a visual representation of how efficiently the vehicle or equipment is using fuel.

# Fuel Monitoring in Marine Fleet

Challenges

- Managing fuel consumption in bulk carriers with multiple fuel tanks
- Frequent fluctuations in fuel levels due to vessel movement, making it difficult to accurately monitor fuel consumption

Solution

- Accurate monitoring of fuel levels with multiple sensor in a single tank for better visibility and control over fuel usage
- Tracking fuel consumption and differentiating between fluctuations, transfers, and thefts
- Detailed analytics of fuel-consuming systems onboard the ship for accurate consumption data and reports

Results

- Optimized fuel efficiency and cost savings for marine fleet operators
- Reduced environmental impact of the fleet
- Detection and prevention of fuel theft for secure fleet operation
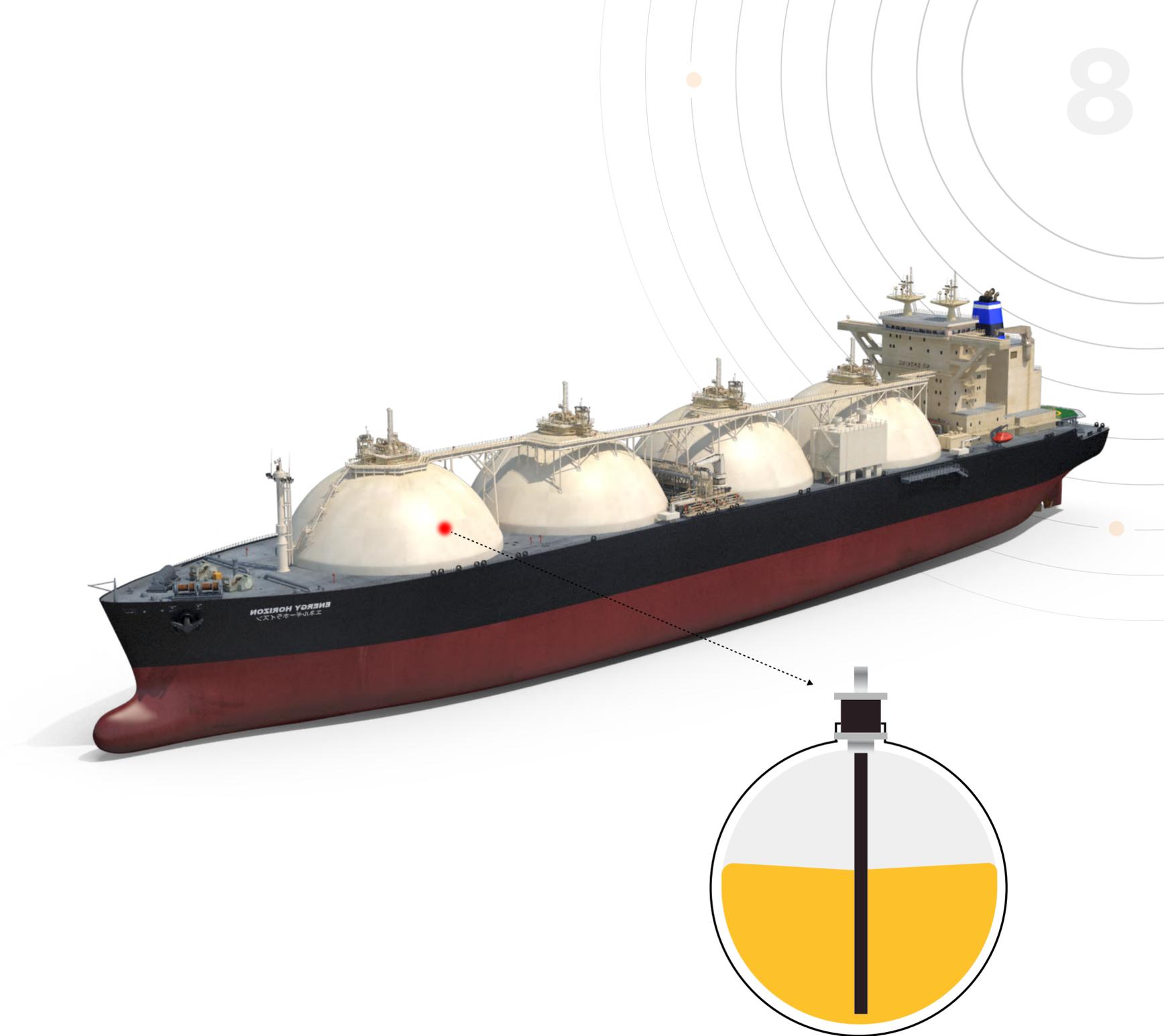
Diesel Generator Monitoring

Challenges

- Difficulty in accurately tracking fuel consumption when multiple tanks were used
- Time-consuming and error-prone manual tracking
- Fuel theft in remote areas
- Challenges in fuel forecasting
- Fuel contamination due to water or dirt entering the fuel system

Solution

- Real-time and accurate monitoring of fuel levels, consumption, with the use of **ultrasonic sensors** in multiple tanks.
- Warning alerts for fuel contamination
- Instant alerts detecting fuel theft when the fuel level drops below a certain threshold.
- Various reports helping with fuel usage and consumption patterns

Results

- Reduced fuel theft and improved environmental sustainability
- Prevented generator downtime due to fuel-related issues
- Optimized fuel usage leads to cost savings

# Oil and Gas Businesses

Challenges

- Multiple fuel storage tanks spread across various locations, making it difficult to track fuel levels and usage patterns.

- Concerns about fuel theft and unauthorized usage, which could impact finances and reputation.

- Unable to track how much fuel was removed or transferred from the storage tanks.

Solution

- Accurate monitoring of fuel usage, transfer or removal with the help of **fuel flow meter**. Providing better visibility and control over fuel usage across various locations.

- Alerts for fuel-related issues like low fuel levels, fuel theft or leakage were provided.

- Managers can remotely access fuel data, make informed decisions from anywhere, and monitor fuel usage efficiently.

Results

- Improved accuracy, efficiency, and safety of fuel monitoring, reduces costs, and ensures regulatory compliance.

- The company was able to track fuel usage across locations, prevent fuel theft and unauthorized usage, and protect its bottom line and reputation.
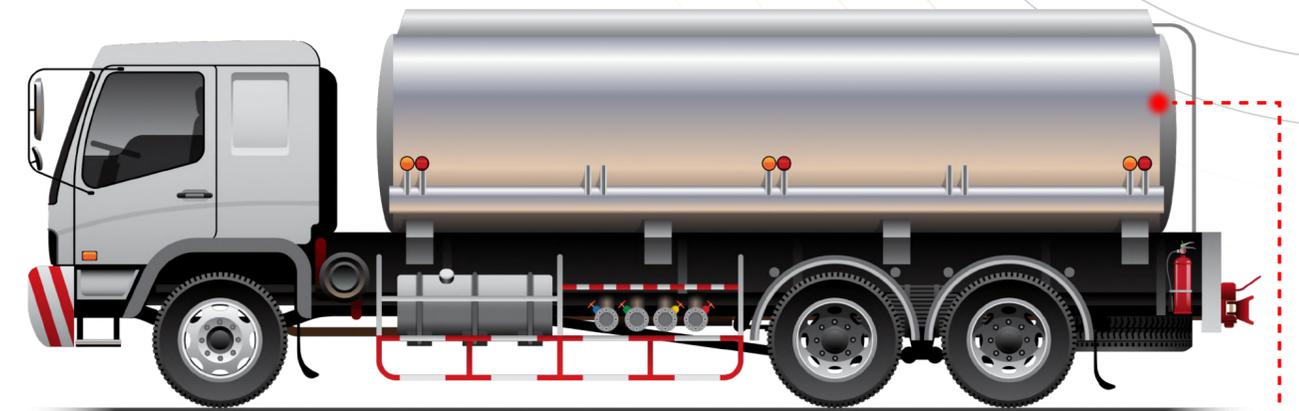
Our software is designed to be **flexible, scalable, and customizable**.
We understand that every business is unique, and we work closely with our customers to ensure that our solutions are tailored to meet their specific needs.

Thank you!

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