WeatherXM

Eliminate Weather Uncertainty

WEATHER

XM

WEATHER
FORECASTING
THE SMART WAY

At Ex Machina we track the accuracy of multiple weather forecast models, to identify the best one for your location. WeatherXM empowers our customers to harness highly accurate weather data and turn it into valuable business actions.

THE CHALLENGE

Weather is having an ever increasing effect on businesses around the world. More and more organisations are conscious to factor in the weather into their business decision making. However raw data on its own does not lead to value directly—deriving value requires transforming the data into business insight with the use of skilled data scientists and meteorologists.

Many organisations in weather sensitive industries such as the energy industry struggle to eliminate weather uncertainty. In fact, $31bn are lost each year in the energy industry due to weather forecast inaccuracy.

To complicate things even further different meteorological models offer contradicting forecasts for the same location. How can you know which source to trust and rely your business decisions on?

Benefits

✓ Turn weather data into competitive advantage

✓ Get the most accurate weather forecast for your locations

✓ Gain insight into past conditions to help you better plan for the future

✓ Track the accuracy of your current weather data

OUR SOLUTION

WeatherXM provides the the most accurate weather data available for your location by aggregating data from multiple weather station networks and analysing them to identify the most accurate per location. Using machine learning we correlate weather with business indicators and serve insights and forecasts to our customers via the most efficient channel (API, dashboard, email report etc). Our unique hardware weather station technology enables us to generate weather data ad hoc, enhancing accuracy and reliability of our forecasts. The result? Our customers get the best available weather observations in real-time, as well as weather historical and forecast data for their locations or sites of interest.

CASE STUDY

ADMIE is the Greek Independent Power Transmission Operator (TSO) and has the role of transmitting electrical power at a national level via the power grid. Predicting what the energy demand will be in the future is fundamental in utility operation. Increasing penetration of RES in the national energy mix renders accuracy as one of the most significant indicators for weather data and forecasts. Weather conditions are among the predominant factors that affect electrical power consumption & production and are therefore used as predictors in short-term load forecasting.

Ex Machina brought in its expertise in weather forecasting data analytics to provide ADMIE with the high quality weather data they needed and make better use of the data.

WHY EX MACHINA

Ex Machina is an award-winning company based in Greece, founded in 2015. It brings innovative approaches to solving challenging problems in the energy sector by utilizing its expertise in Weather Analytics and AI.

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"*Ex Machina's reliable weather data and excellent support are crucial for producing accurate load forecasts*

Manolis Kalfaoglou, Director of Systems and Infrastructure Department, ADMIE

EX MACHINA XM
WEATHER ON DEMAND

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