

Demand Prediction and Management Tool Step-by-step Training Guide

Water Sector
Acosol (ACO) - Spain



Content Overview



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This step-by-step guide helps users navigate the Demand Prediction and Management Tool to analyse forecast data and manage uploads. It forms part of the training materials provided for the solution, alongside the [training video](#) for the Acosol (Spain) pilot in the Water Sector.

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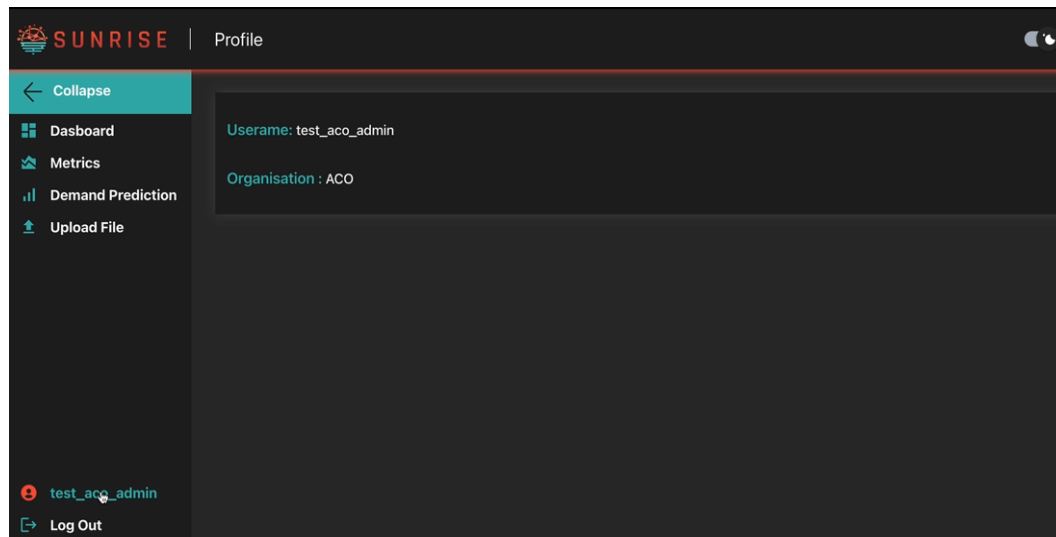
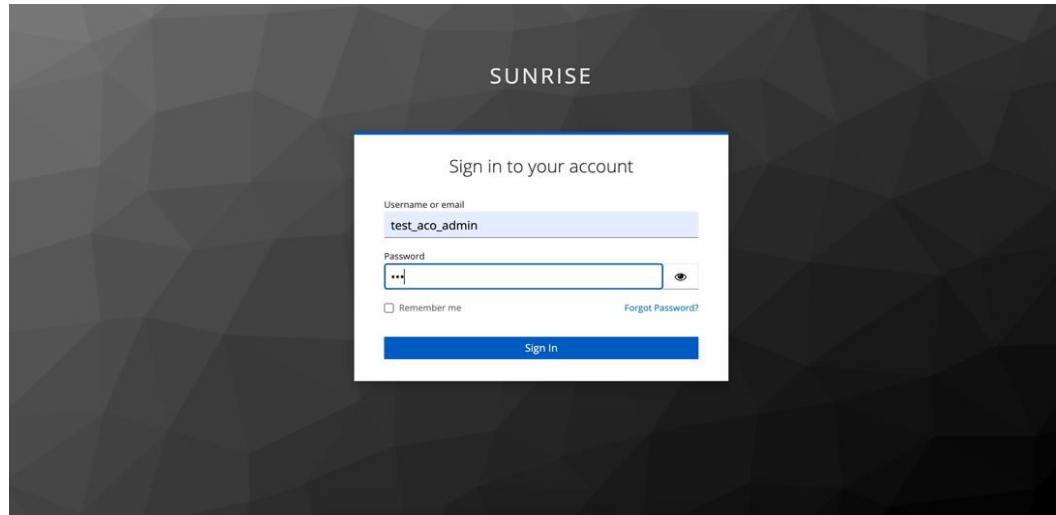
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Login & Interface



- + Begin by entering your credentials on the login screen.
- + Select the “**Remember Me**” option if you wish to stay signed in on future visits.
- + After logging in, the main dashboard loads, featuring a left-hand sidebar with navigation links and a toggle to switch between **dark and light themes**.

Dashboard Page



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- + Use the dropdown menus to **filter data by district**.
- + Explore **interactive time series graphs** of uploaded water-related data.
- + You can zoom into specific time ranges and **use Ctrl + Z to reset the view** to its default zoom level.

Metrics Page



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- + Navigate to the Metrics section to **evaluate model performance**.
- + Apply filters to select the district and time period.
- + Performance metrics such as:
 - › **RMSE** (Root Mean Squared Error)
 - › **MAPE** (Mean Absolute Percentage Error)are displayed in a structured table for easy comparison.

Metrics

Choose the desired categories & time period (interval) from the options below to get the corresponding metrics.

Type: All places Time period: Monthly

GET METRICS

All Places Monthly Metrics

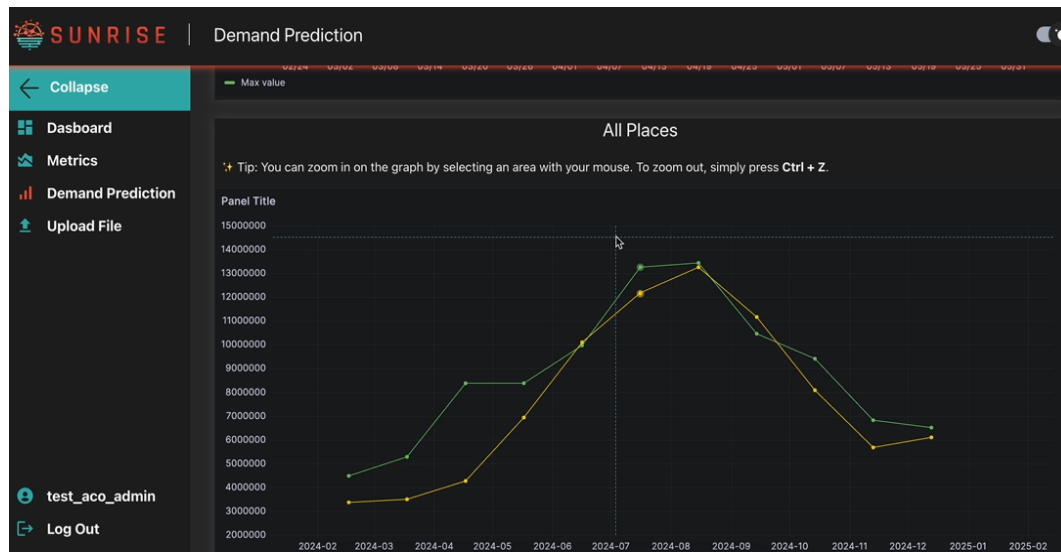
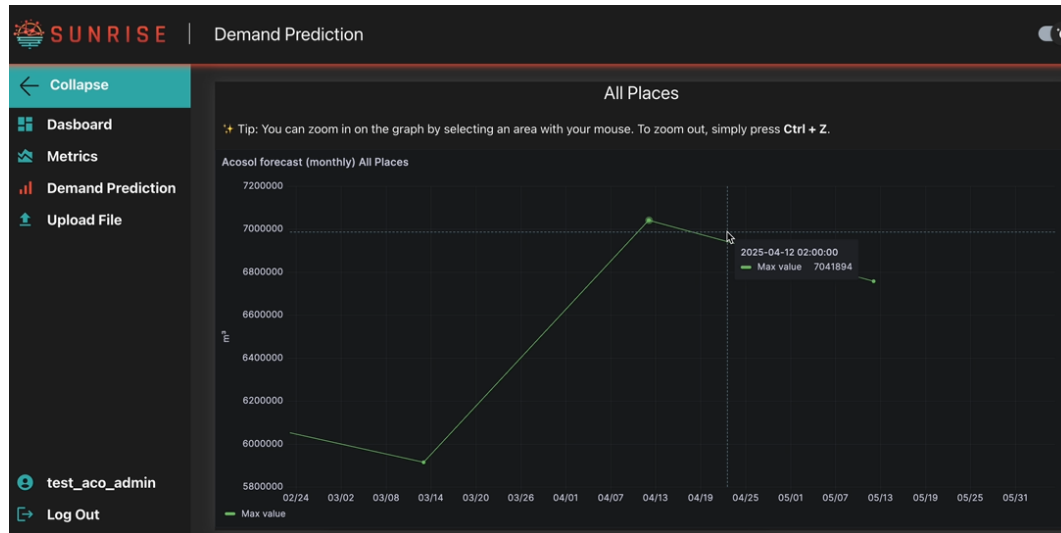
Name	Value
rmse	1606067.875
mape	23.8260440826416

test_aco_admin Log Out

Demand Prediction Page

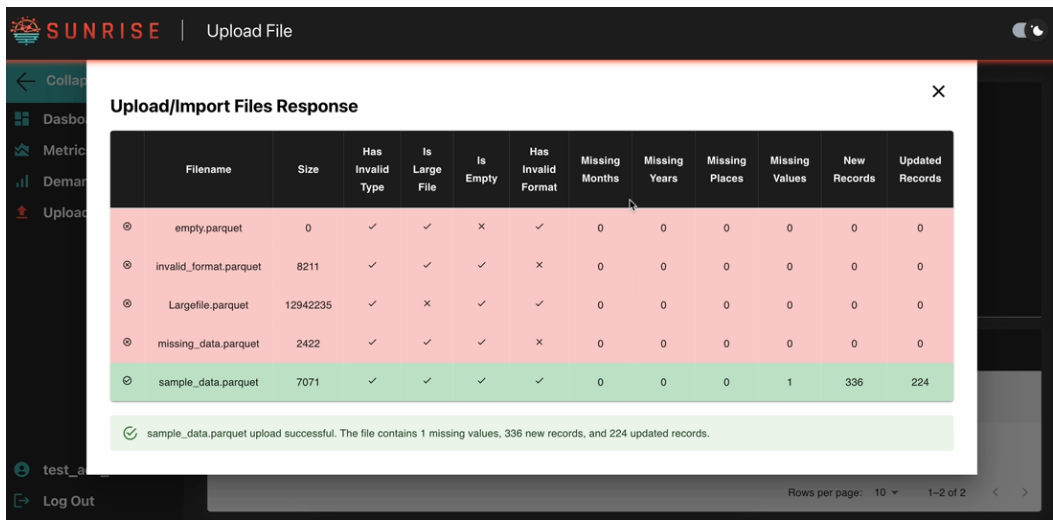
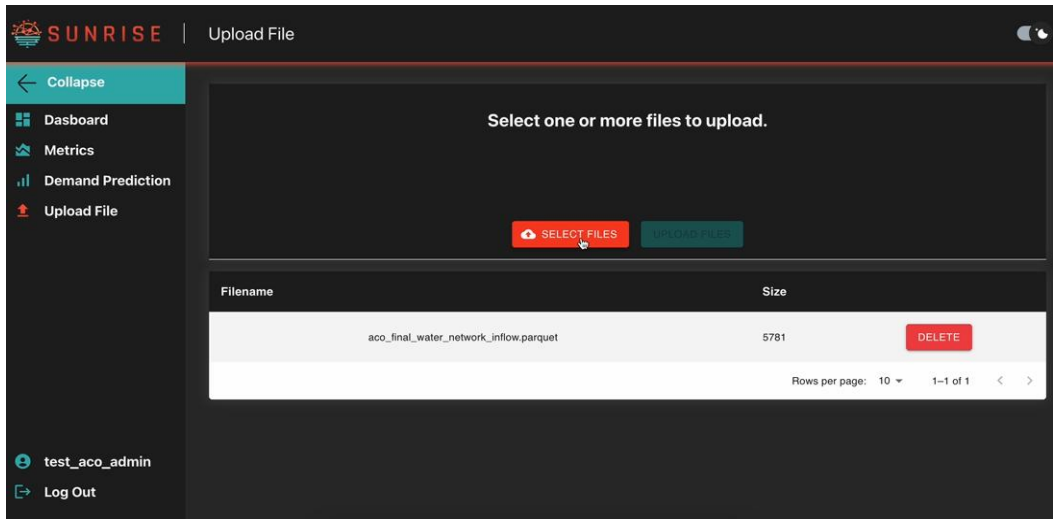


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- + Go to the Demand Prediction page and select your **place and forecast time interval** to view upcoming demand projections.
- + Two graphs are provided:
 1. A **forecast graph** showing future demand.
 2. A **comparison graph** displaying predicted values versus actual data during training.
- + You can zoom in and use **Ctrl + Z** to reset the **view** to its default zoom level.

File Upload Page



- + Upload **one or multiple data files** through the file upload interface.
- + The system automatically performs **validation checks** for: type, size, and missing values.
- + Invalid files will be flagged in **red** with an explanation of the issue.
- + Valid files appear in **green** and will immediately initiate model training upon upload.
- + After upload, dashboard and metrics update automatically. You can delete uploaded files and data.

Logout

A screenshot of the SUNRISE web application's "Upload File" page. The interface has a dark theme. On the left is a sidebar with a "Collapse" button and a menu containing "Dashboard", "Metrics", "Demand Prediction", and "Upload File". The main area has a header "SUNRISE | Upload File" and a toggle switch. Below the header, it says "Select one or more files to upload." with "SELECT FILES" and "UPLOAD FILES" buttons. A text box shows a list of files: "empty.parquet, invalid_format.parquet, Largefile.parquet, missing_data.parquet, sample_data.parquet". Below this is a table with columns "Filename" and "Size". The table contains two rows: "aco_final_water_network_inflow.parquet" (5781) and "sample_data.parquet" (7071), each with a "DELETE" button. At the bottom left, the user is identified as "test_aco_admin" with a "Log Out" button. At the bottom right, it says "Rows per page: 10" and "1-2 of 2".

Filename	Size
aco_final_water_network_inflow.parquet	5781
sample_data.parquet	7071

- + When finished, simply click to **log out** and end your session securely.



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Thank you for following the training.

For more information:
<https://sunrise-europe.eu/>



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