10th WindSim User Meeting

24-25 June 2015, Tønsberg

WindSim Web Portal

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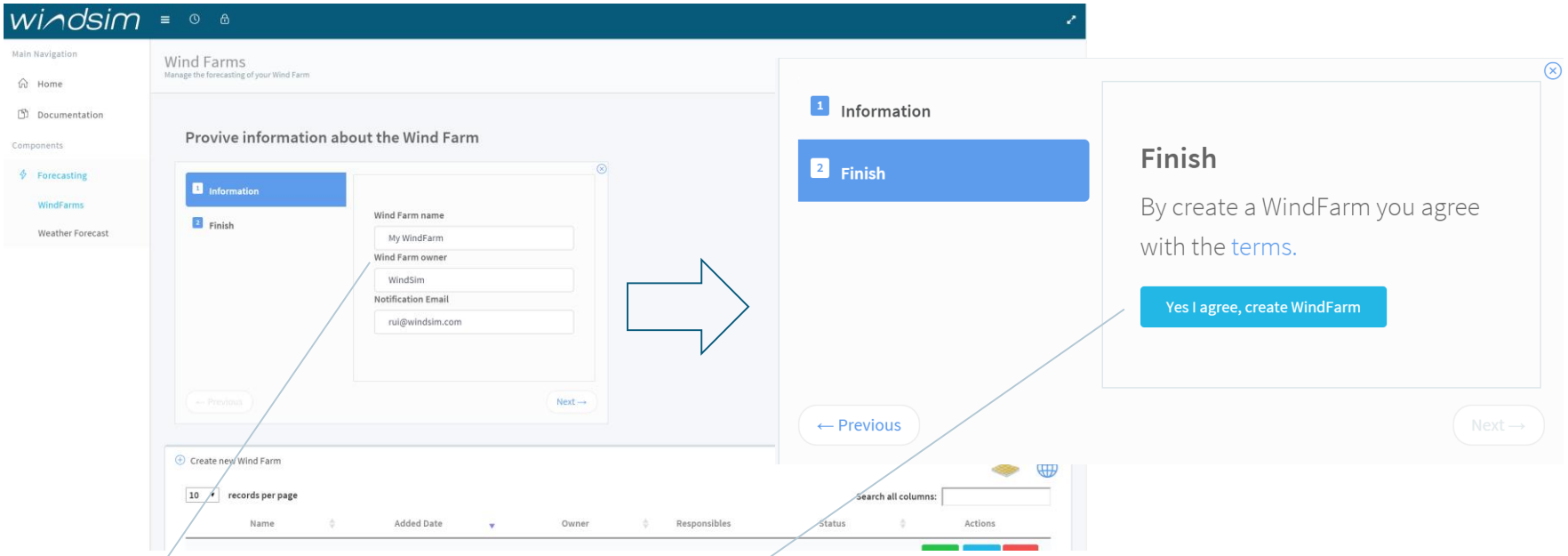
windsim

Agenda

- **WindSim Portal**
  - Power Forecasting
    - Create a WindFarm
    - Map overview & 3D viewer
    - Create a Forecasting Strategy
    - View Power Forecasting Results
  - Demo
- **Future of WindSim Portal**

Power Forecasting – Create WindFarm

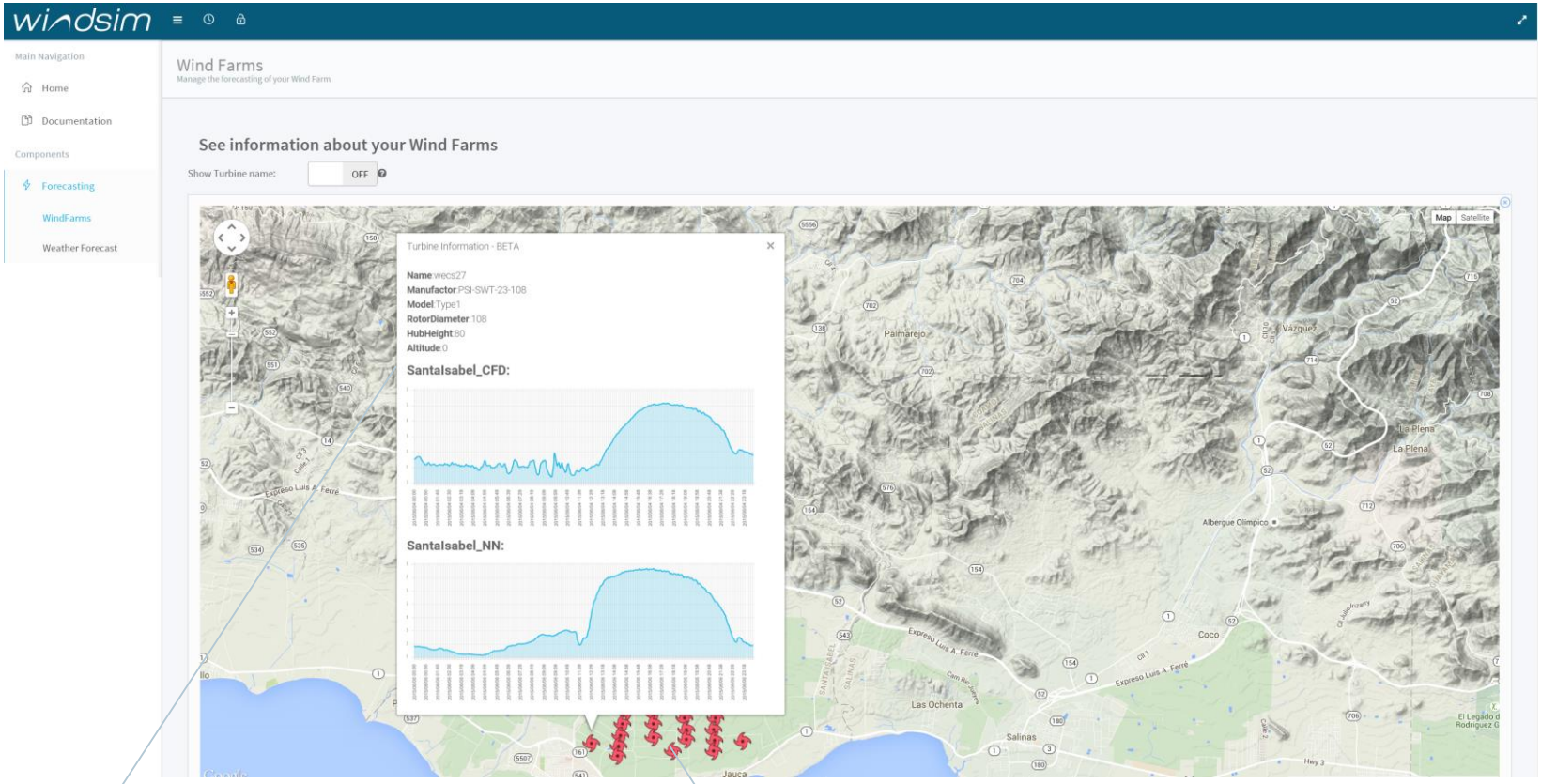


Wind Farm Information:

- **Name**
- **Owner**
- **Responsible Email**

After this step the Wind Farm is created and shown in the list

Power Forecasting – Map Overview

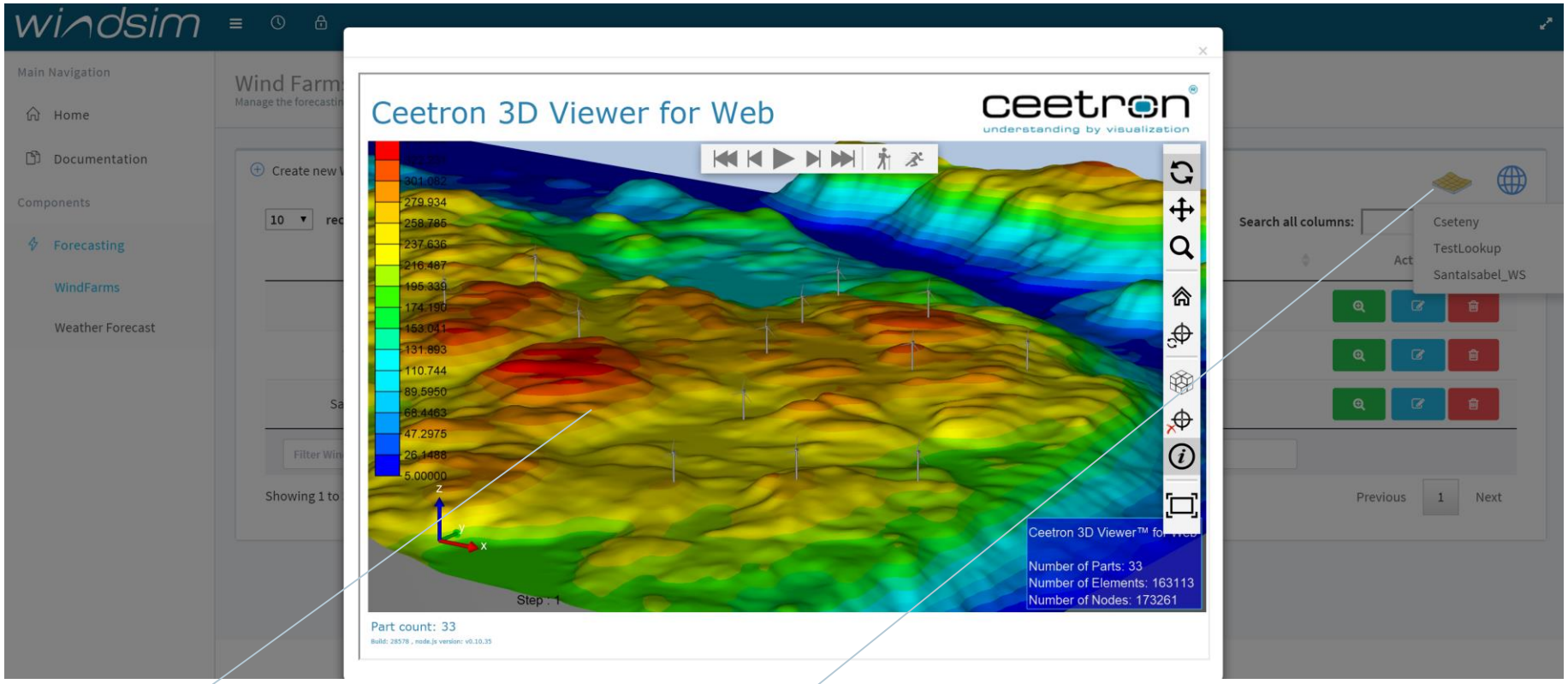


Power forecasting per turbine

- **Click in the turbine to see the details**

List of all turbines in the Wind Farm

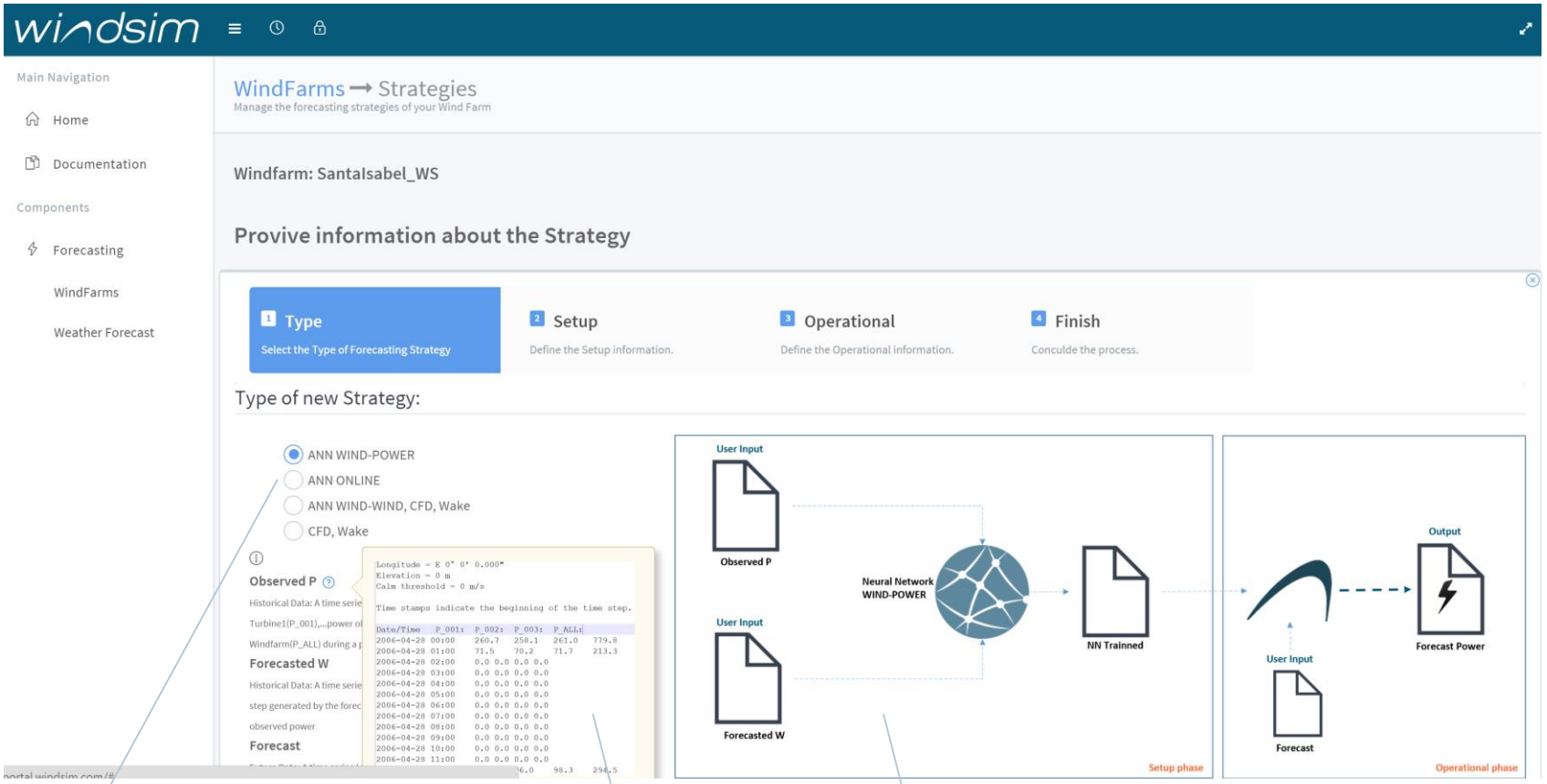
Power Forecasting – 3D Viewer



3D view of the park

Select the Wind Farm to see the 3D

Power Forecasting – Create a Forecasting Strategy

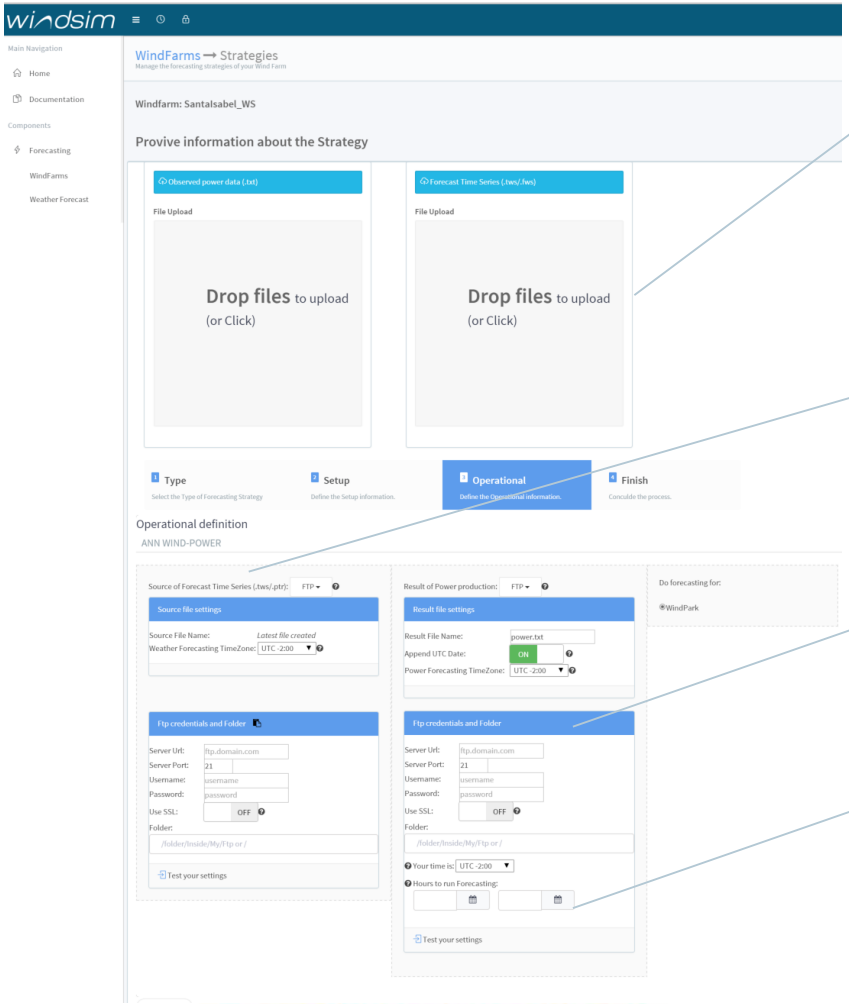


Different types of strategies, depends on your needs and available data

Example file format

Visual strategy steps for good understanding

Power Forecasting – Create a Forecasting Strategy



Easy upload & validation control of data

Settings where you specified the location of Wind Forecasted data

Settings where you specify the destination of Power Forecast

Times during the day you want the forecasting to run

Power Forecasting – View Results

Power Forecasting API Settings

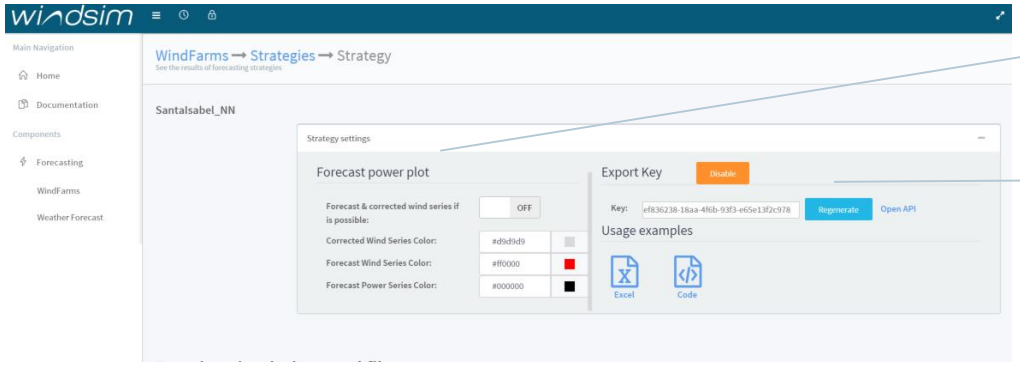
List of last Runs

Possibility to download all files generated

Static plot to show Wind Forecasted, Power generated and accumulated energy per day

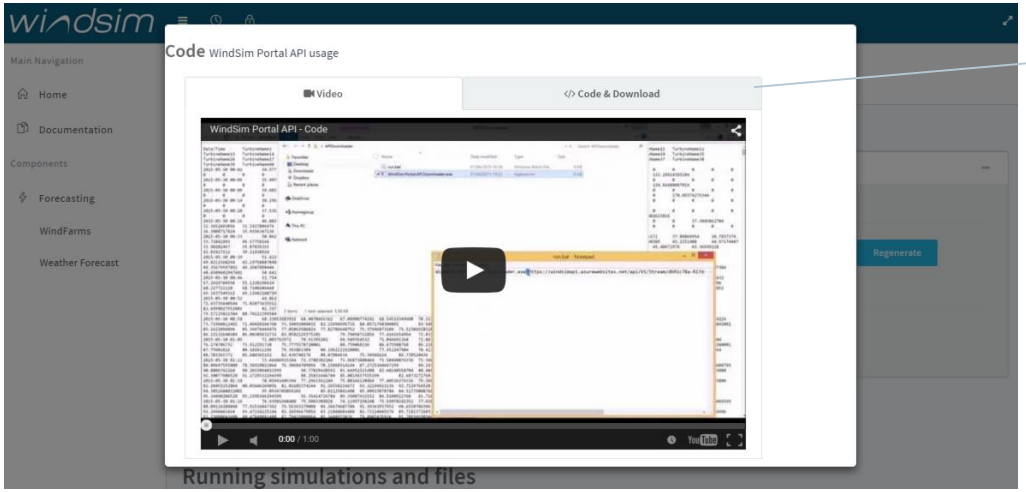
Interactive Power and Wind plots for a better perspective per day

Power Forecasting – View Results



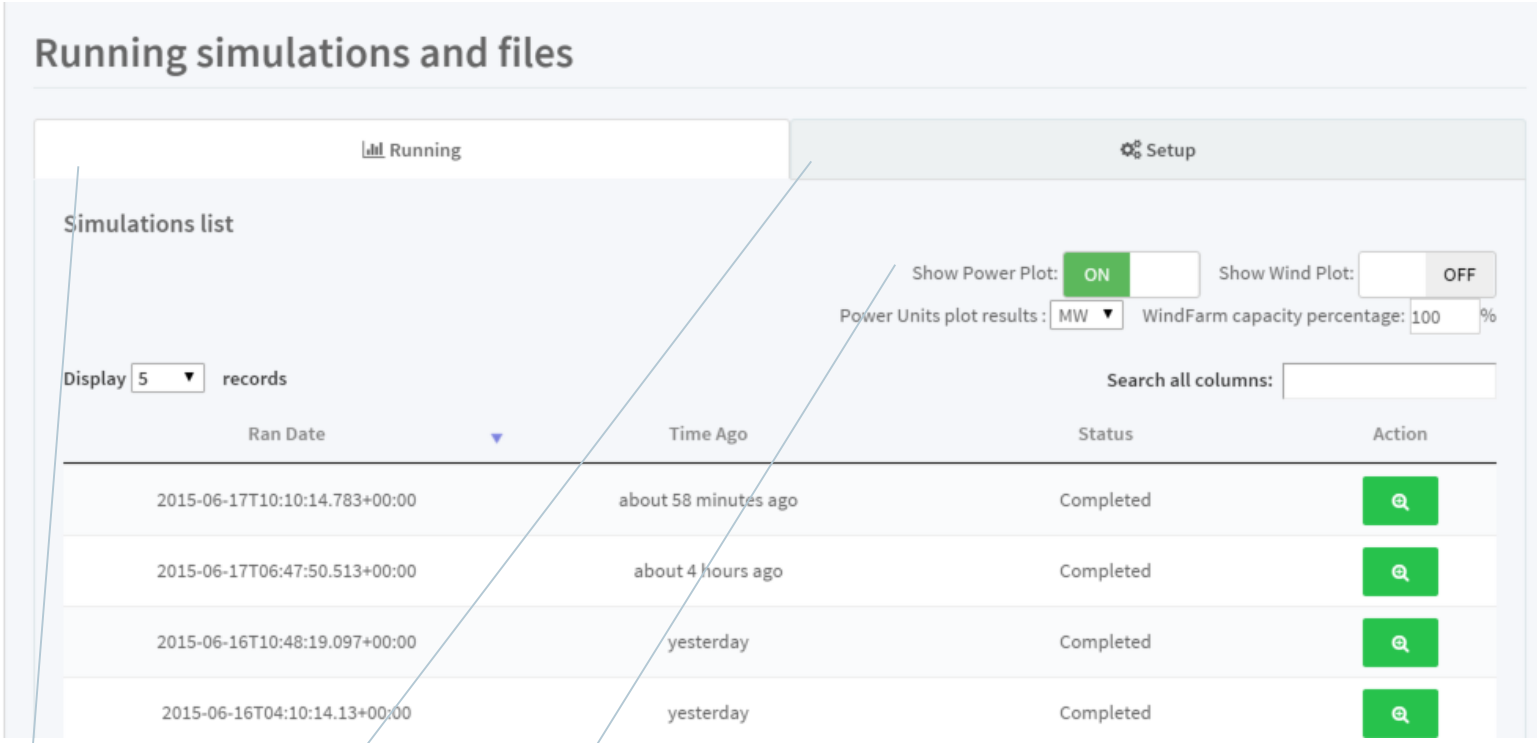
Configuration of Static Plot colors and data series

API activation with usage examples



API usage examples with videos and detailed information

Power Forecasting – View Results



Running tab

Setup tab

Interactive plot definitions, notice the Wind Farm capacity percentage

Power Forecasting – Demo

Demo

Power Forecasting – Keep in mind

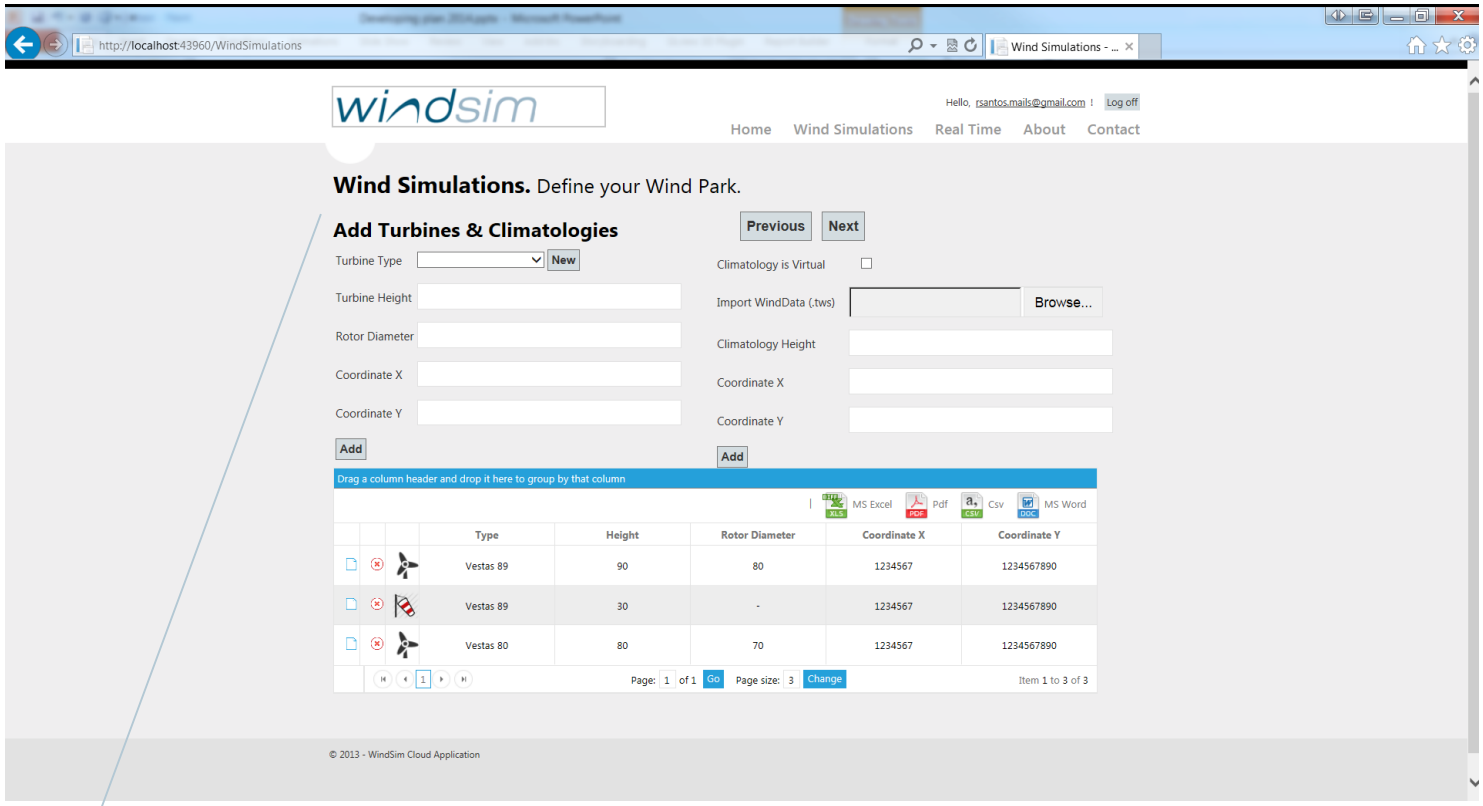
- See the current forecasted Power per turbine in a Map
- Create different Forecasting Strategies based upon available data
- Receive the results by FTP, Email, API or directly in the Portal
- Easy integration with your software or Excel using the API

Future of WindSim Portal

Future - Plan

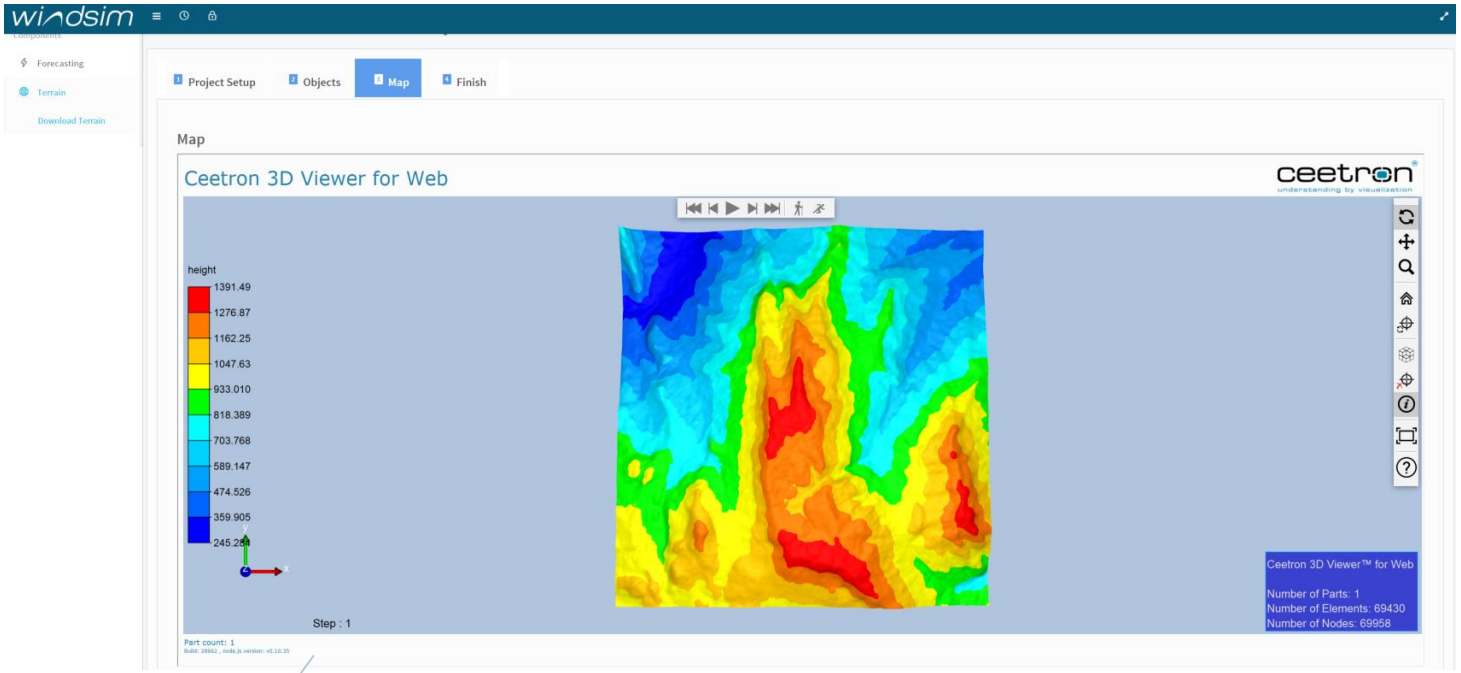
... the plan is only valid until it changes ...

Future of WindSim Portal – Create WindSim Project



Create a complete WindSim Project and choose if you want to run it locally or in WindSim Cloud

Future of WindSim Portal – Download Terrain Data



Possibility to download terrain data in .gws or .map format worldwide using the best Free Online DataSet for the specific region

Future of WindSim Portal – and more…

- Asset Management - possibility to plan when a turbine is unavailable
- Compare Power Forecasting Strategies
- See the progress of WindSim Queue in the Portal
- Run complete CFD WindSim Projects in the Portal
- Integrate a WindSim project with Forecasting automatically
- Weather Forecast Service using the API
- ….

Questions?

THANK YOU

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