

AVEVAWORLD  
PARIS

OCTOBER 2024

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# Support expanding needs with AVEVA™ PI Vision™ 2024

Presented By: John Swartzentruber, AVEVA R&D Manager, Product Development

AVEVA

AVEVA WORLD 2024

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# Agenda

AVEVA™ PI Vision overview

The final chapter in the Windtopia story

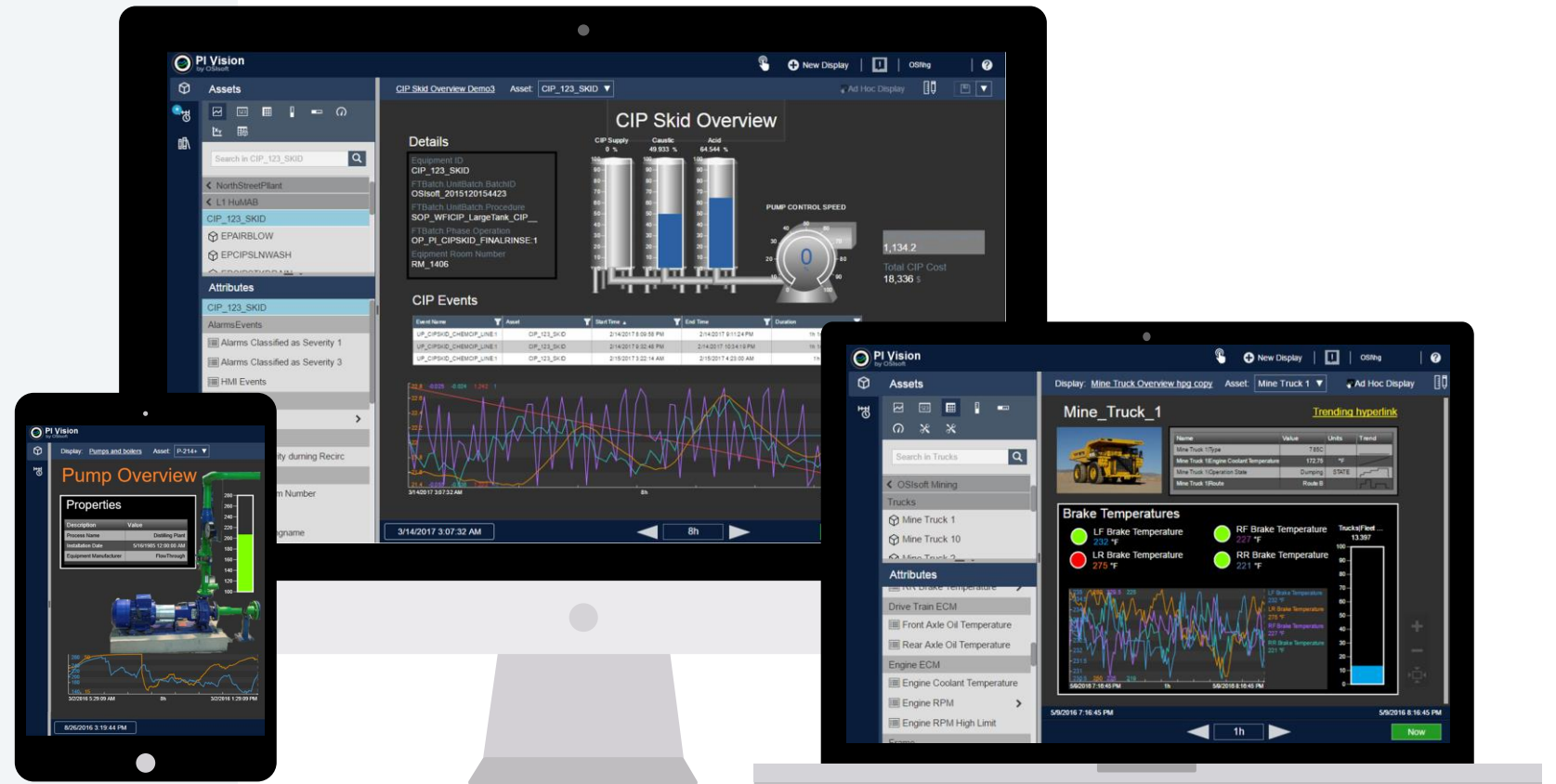
AVEVA™ PI Vision 2024 demos

Q&A

# AVEVA™ PI Vision

The fastest, easiest way to visualize AVEVA™ PI Server data

- An easy to use, self-service, **scalable** solution
- Access data from any web browser, including **mobile** device browsers
- **Organize and share** displays across your organization

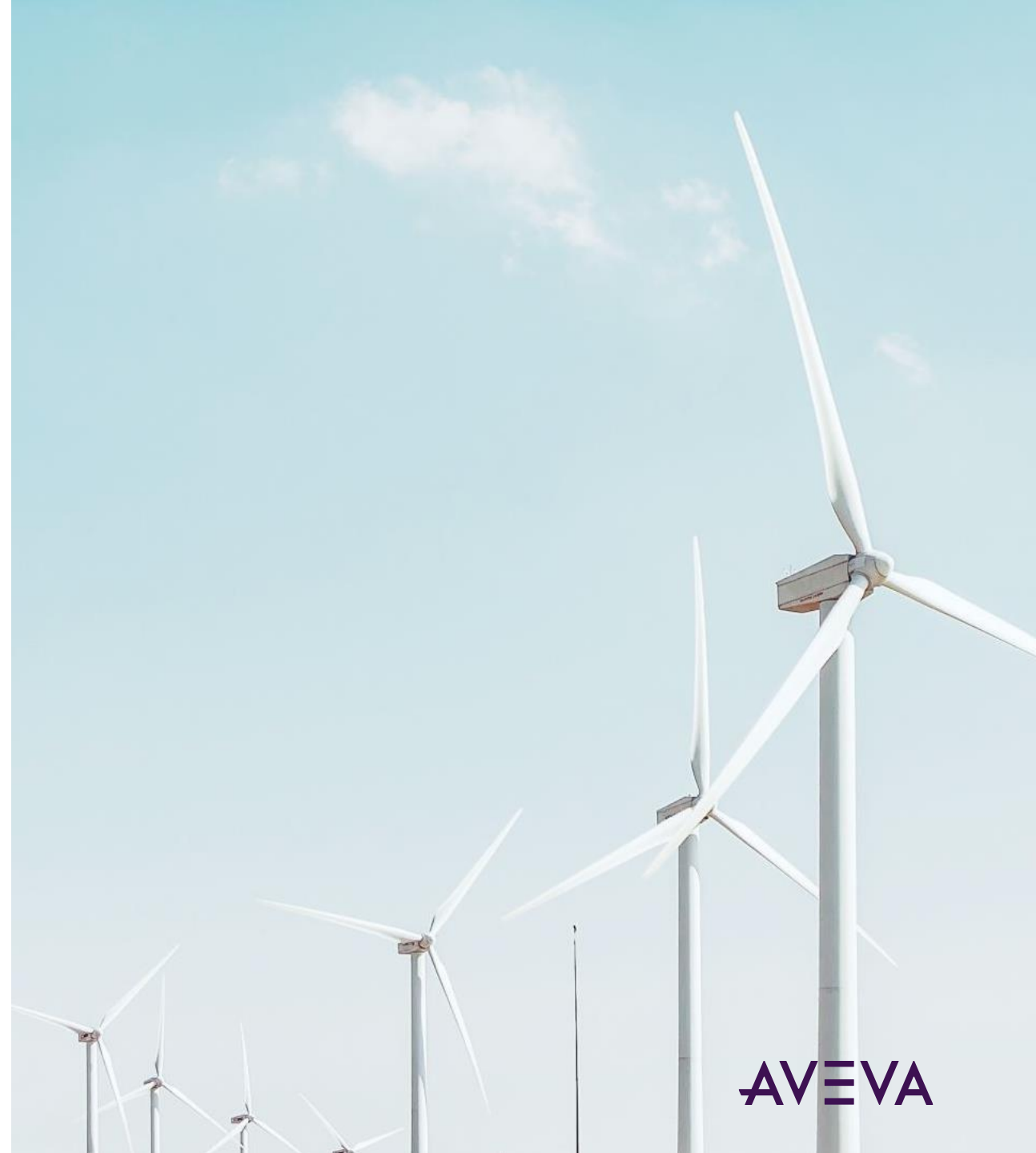


# Windtopia's PI Data Infrastructure journey

## What is Windtopia doing today?

### Monitor wind farms

- On-prem AVEVA™ PI System
- Increasing scale and scope over time
- PI Connectors, data archive, asset framework, AVEVA PI Vision



# PI data infrastructure

Watch Windtopia transform their data infrastructure over the course of these technical talks in AWC

**Previously:** Operations data analytics at cloud scale:

Seamless integration of PI System data with CONNECT data services

Room: Ternes Hall | 16 October, 14:45 – 15:15

**Previously:** Easily deploy AVEVA Adapters to remotely collection operations data at scale

Room: #251 | 16 October, 15:30 – 16:00

**Previously:** Hosting PI Asset Framework's SQL database in the cloud with Azure SQL DB

Room: #252A+B | 16 October, 16:15 – 16:45

**This Session:** Support expanding needs with AVEVA PI Vision 2024

Room: #241 | 16 October, 17:00 – 17:30



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# Demos



Show private displays

Windtopia

- All Displays
- Favorites
- My Displays
- Recent

Home

DEV

**Windtopia**

Backup



**Generator Overview**  
 OSIjswartzentruber  
 Accessed 9/20/2024 10:56 AM

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**Wind Farm Overview**  
 OSIjswartzentruber  
 Accessed 9/20/2024 10:56 AM

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**Generator Overview - Template**  
 OSIjswartzentruber  
 Never accessed

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**AWC Wind Farm**  
 OSIjswartzentruber  
 Never accessed

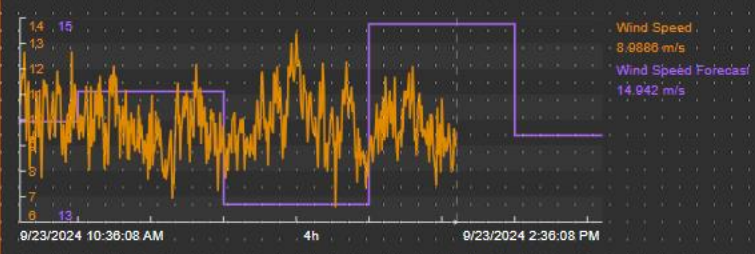
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# Big Buffalo Wind Farm GE01

### Temperatures

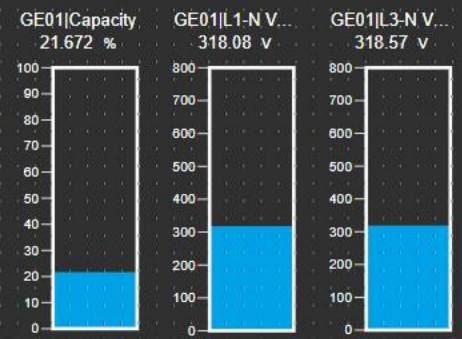
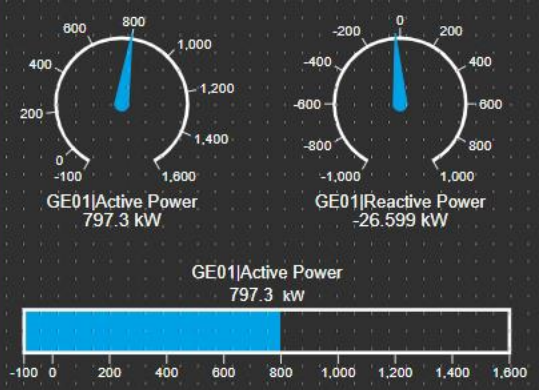
Ambient	Bearing A	Bearing B	Gearbox	Nacelle	Generator 1	Generator 2
10 °C	38.433 °C	62.299 °C	60.42 °C	22.001 °C	74.997 °C	73.069 °C

This is a text description that demonstrates the formatting and text wrapping capabilities in the Text symbol. It also supports newlines.



Name	Value
GE01 Bearing A Temperature	38.433
GE01 Bearing B Temperature	62.299
GE01 Bearing Shaft Temperature	15.942
GE01 External Oil Heater Temperature	15.582
GE01 Nacelle Temperature	22.001

Name	Description	Value	Units	Trend
GE01 EAF MTD	EAF MTD	88.458	%	↗
GE01 Manufacturer	Truvale			—
GE01 Model	T95-2MW			—
GE01 Operating Efficiency		94.103	%	↔
GE01 Operating State	Turbine 01 Operating State-OCSDemo	Load Operation		—
GE01 Power Rated		1,500	kw	—
GE01 ResourceEAF MTD	EAF when windspeed is in range	85.524	%	↗
GE01 Serial Number	M000000			—
GE01 Turbine Count		1		—
GE01 Turbine Name	GE01			—
GE01 Turbine State	Turbine 01 Operating State-OCSDemo	Load Operation		—
GE01 Turbine Status C		1		—



Event Name	Asset	Start Time	End Time	Acknowledgment
HighTurbineTemp_GE01_2024-09-23 05:49:32.613	GE01	9/23/2024 8:49:32 AM	In Progress	Acknowledge




Show private displays

Search All Displays

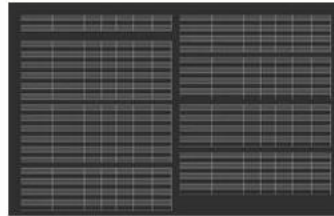
- All Displays
- Favorites
- My Displays
- Recent

Home


- DEV
- PROD




**Wind Farm Overview**  
OSIjswartzentruer



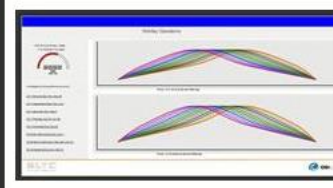
**Turbine raw data**  
OSIjswartzentruer




**SLTCDashboard**  
OSIjswartzentruer



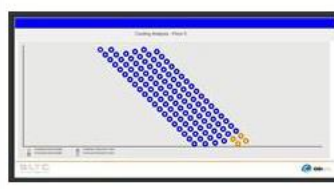
**SLTC---Home---System-Overview**  
OSIjswartzentruer



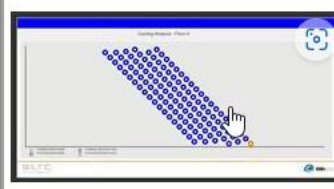
**SLTC---Fault-and-Site-Management...**  
OSIjswartzentruer



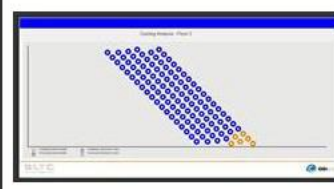
**SLTC---Fault-and-Site-Management...**  
OSIjswartzentruer



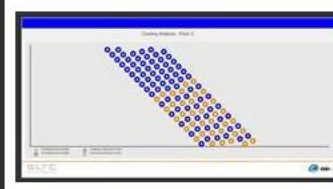
**SLTC---Fault-and-Site-Management...**  
OSIjswartzentruer



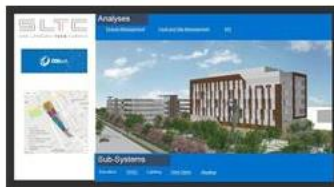
**SLTC---Fault-and-Site-Management...**  
OSIjswartzentruer




**SLTC---Fault-and-Site-Management...**  
OSIjswartzentruer




**SLTC---Fault-and-Site-Management...**  
OSIjswartzentruer



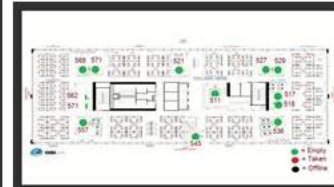
**SLTC\_Main\_bd**  
OSIjswartzentruer



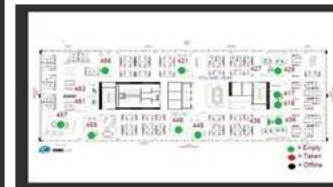
**SLTC\_Main**  
OSIjswartzentruer



**SLTC\_6th\_Floor**  
OSIjswartzentruer



**SLTC\_5th\_Floor**  
OSIjswartzentruer








**SLTC\_4th\_Floor**  
OSIjswartzentruer

Show private displays

Search All Displays



















- All Displays
- Favorites
- My Displays
- Recent

 Home
 

- DEV >
- PROD >

All Displays 83

Name	Owner	Last Modified	Your Last Access ↓
Generator Overview	OS\jswartzentruber	9/19/2024 2:34 PM	9/23/2024 1:33 PM
Wind Farm Overview	OS\jswartzentruber	8/16/2024 11:06 AM	9/20/2024 5:29 PM
AWC Wind Farm	OS\jswartzentruber	8/20/2024 2:36 PM	9/20/2024 5:29 PM
SLTC - Energy Management - Utility Bills	 OS\jswartzentruber	6/20/2024 2:56 PM	9/20/2024 5:29 PM
SLTC - Energy Management	 OS\jswartzentruber	6/20/2024 2:56 PM	9/20/2024 5:29 PM
SLTC---Home---System-Overview	OS\jswartzentruber	9/20/2024 4:03 PM	9/20/2024 4:03 PM
Basckup5	OS\jswartzentruber	9/20/2024 3:24 PM	9/20/2024 3:23 PM
Generator Overview - Backup2	OS\jswartzentruber	9/19/2024 2:53 PM	9/20/2024 3:18 PM
SLTC - Energy Management - Utility Bill	 OS\jswartzentruber	6/20/2024 2:56 PM	Never accessed
SLTC - Energy Management - Utility Bills	 OS\jswartzentruber	6/20/2024 2:56 PM	Never accessed
SLTC - Energy Management Overview	 OS\jswartzentruber	6/20/2024 2:56 PM	Never accessed
SLTC - Fault and Site Management - Analytics - Setpoint Analysis	 OS\jswartzentruber	6/20/2024 2:57 PM	Never accessed
SLTC - Fault and Site Management - Analytics - Temperature Differential Analysis	 OS\jswartzentruber	6/20/2024 2:57 PM	Never accessed
SLTC - Fault and Site Management - Analytics - Training Room Sample Analysis	 OS\jswartzentruber	6/20/2024 2:57 PM	Never accessed
SLTC - Fault and Site Management - Asset Diaplays - VAV Floor Sumary - Floor 1	 OS\jswartzentruber	6/20/2024 2:57 PM	Never accessed
SLTC - Fault and Site Management - Cooling Analysis _v1	 OS\jswartzentruber	6/20/2024 2:58 PM	Never accessed
SLTC - Fault and Site Management - Kiosk Dashboard	 OS\jswartzentruber	6/20/2024 2:59 PM	Never accessed
SLTC - EBC - Main Dashboard	 OS\jswartzentruber	6/20/2024 2:59 PM	Never accessed
SLTC - EBC - Main Dashboard NoToolbars View	 OS\jswartzentruber	6/20/2024 2:59 PM	Never accessed
SLTC - Fault and Site Management - ViewGlass - East Side	 OS\jswartzentruber	6/20/2024 2:59 PM	Never accessed
SLTC - Fault and Site Management - ViewGlass - North Side	 OS\jswartzentruber	6/20/2024 2:59 PM	Never accessed
SLTC - Fault and Site Management - ViewGlass - South Side	 OS\jswartzentruber	6/20/2024 2:59 PM	Never accessed
SLTC - Fault and Site Management - Weather - Building Weather Station	 OS\jswartzentruber	6/20/2024 2:59 PM	Never accessed
SLTC - Home v7	 OS\jswartzentruber	6/20/2024 3:00 PM	Never accessed

Show private displays

Windtopia

- All Displays
- Favorites
- My Displays
- Recent

- Home
- DEV
- Windtopia
- Backup

Name	Owner	Last Modified	Your Last Access ↓
Generator Overview	OSIjswartzentruber	9/19/2024 2:34 PM	9/24/2024 1:03 PM
Wind Farm Overview	OSIjswartzentruber	8/16/2024 11:06 AM	9/20/2024 5:29 PM
AWC Wind Farm	OSIjswartzentruber	8/20/2024 2:36 PM	9/20/2024 5:29 PM
Generator Overview - Template	OSIjswartzentruber	8/16/2024 1:42 PM	Never accessed

Show private displays Home Page

Windtopia 🔍

- All Displays
- Favorites
- My Displays
- Recent

⊕ ➡ ⚙️ 🗑️

- Home
- DEV
- Windtopia**
- Backup >

Name	Owner	Last Modified	Your Last Access ↓
Backup	OSIJswartzentruber	9/24/2024 1:07 PM	9/24/2024 1:07 PM
Generator Overview	OSIJswartzentruber	9/19/2024 2:34 PM	9/24/2024 1:06 PM
Wind Farm Overview	OSIJswartzentruber	8/16/2024 11:06 AM	9/20/2024 5:29 PM
AWC Wind Farm	OSIJswartzentruber	8/20/2024 2:36 PM	9/20/2024 5:29 PM
Generator Overview - Template	OSIJswartzentruber	8/16/2024 1:42 PM	Never accessed

Show private displays

Windtopia

- All Displays
- Favorites
- My Displays
- Recent

- Home
- PROD
- SLTC >
- Windtopia >

Name	Owner	Last Modified	Your Last Access ↓
Backup	OSIjswartzentruber	9/24/2024 1:07 PM	9/24/2024 1:07 PM
Generator Overview	OSIjswartzentruber	9/19/2024 2:34 PM	9/24/2024 1:06 PM
Wind Farm Overview	OSIjswartzentruber	8/16/2024 11:06 AM	9/20/2024 5:29 PM
AWC Wind Farm	OSIjswartzentruber	8/20/2024 2:36 PM	9/20/2024 5:29 PM
Generator Overview - Template	OSIjswartzentruber	8/16/2024 1:42 PM	Never accessed

- Overview
- Configuration
- Security
- Display Defaults
- User Settings
- Display Management
- Reports
- Display Sessions

## Overview

### PI Vision Database [\[Manage Configuration\]](#)

Status: Database	SQL Server	Database	Connecting to PI Vision Services As
✓	PIVISION310\sqlexpress	PIVision2024	NT AUTHORITY\NETWORK SERVICE

### Data Servers Allowed [\[Manage Configuration\]](#)

Status	Server	Version	Role	Connecting As	PI User
✗	aimserversforpi				

### Asset Servers/Databases Allowed [\[Manage Configuration\]](#)

Status	Server	Database	Version
✓	AIMSERVERFORPI		3.0.1.77
		Facilities	
✓	CD-AWC24-PISRV		3.0.1.77
		Windtopia	

### Version Information

Name	Version
PI Vision	3.10.0.0
PI AF Client	3.1.0.1073

# John Swartzentruber

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AVEVA

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# We hear you loud and clear

AVEVA™ PI System™ Feedback Portal is your platform to tell us what you want, and we have been listening!

AVEVA™ PI Vision 2024 includes 20+ new enhancements based on 2500+ votes from AVEVA PI System Feedback Portal.



<https://feedback.aveva.com>

Let us know your product feedback!





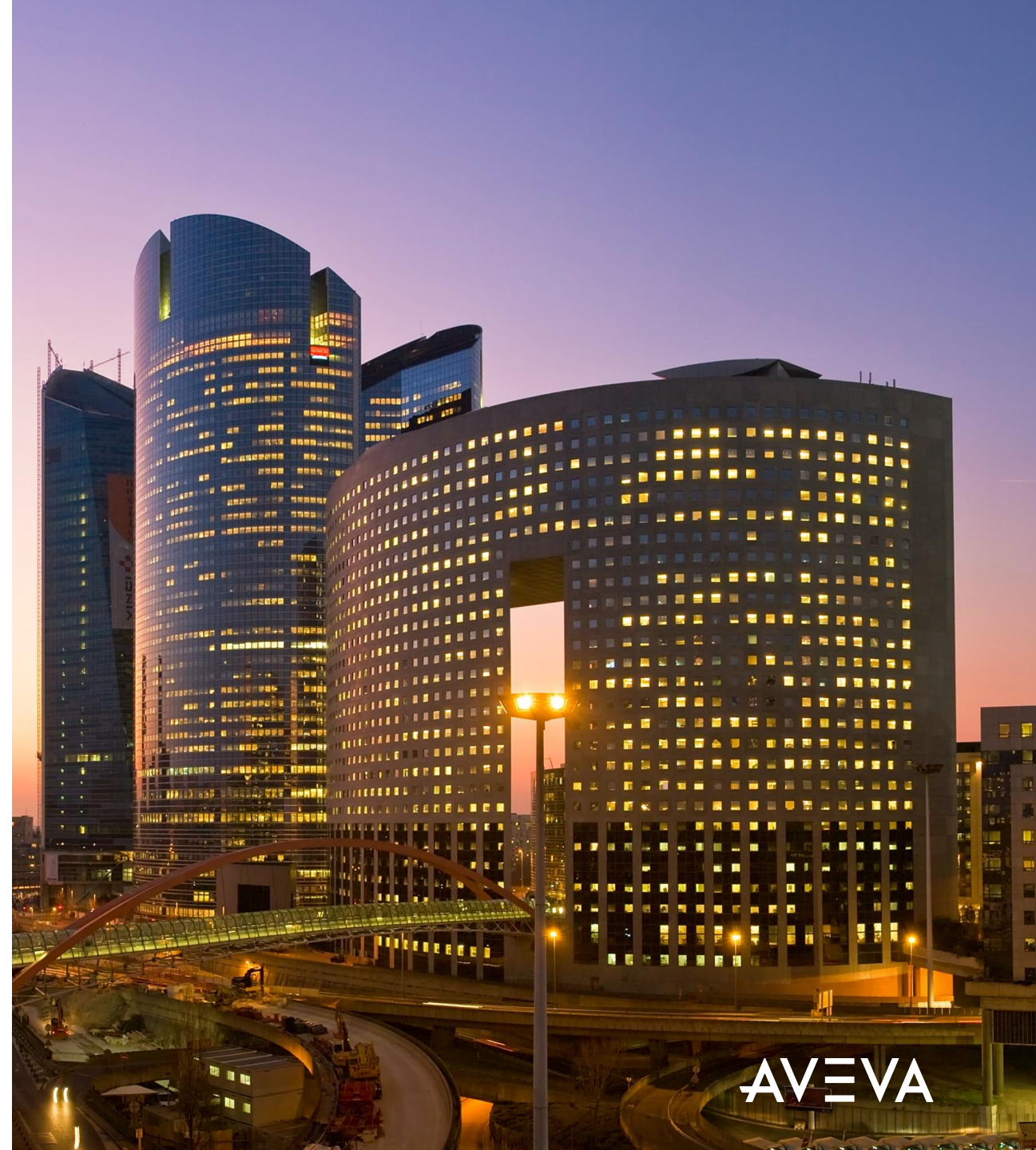
# Questions?



Please wait for the microphone.  
State your name and company.

## Please remember to...

Navigate to this session in the mobile app to  
complete the survey.



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AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. The company is headquartered in Cambridge, UK.

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