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APRIL 9, 2025

Support expanding needs with AVEVA™ PI Vision™ 2024

John Swartzentruber, R&D Manager, Product Development, AVEVA

John Maytum, Sr. Manager, Technical Adoption Services, AVEVA

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John Swartzentruber

R&D Manager, Product Development
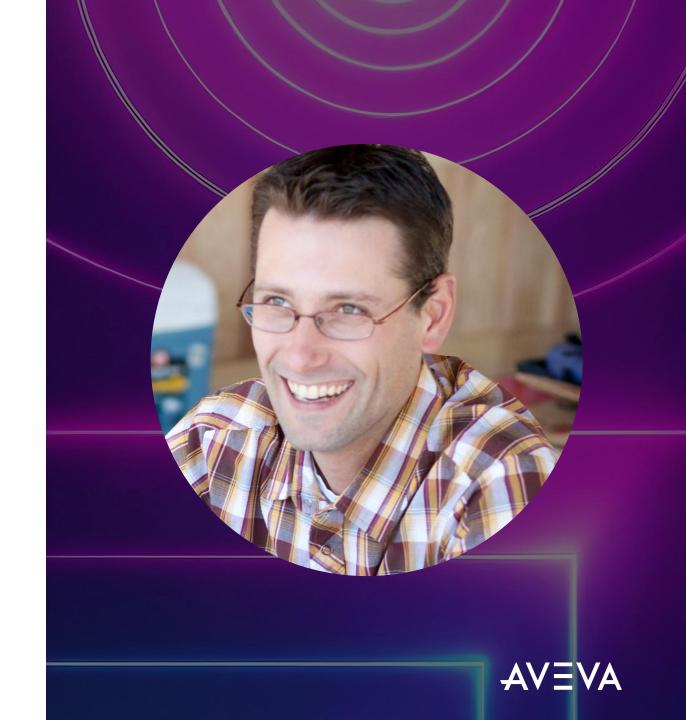
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john.swartzentruber@aveva.com

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John Maytum

Senior Manager Technical Adoption Services

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john.maytum@aveva.com

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AVEVA WORLD 2025

Agenda

**Support Expanding needs with
AVEVA™ PI Vision™ 2024**

Moscone Center West
San Francisco

PI Vision Demonstration

Summary

Q&A

AVEVA

PI Vision 2024 Release Announcement

AVEVA PI Product Updates

AVEVA PI Vision 2024 is now available to customers for download!

Overview

AVEVA PI Vision 2024 (version 3.10.0.0) is a web server-based product that allows you to visualize, assess, and monitor PI System data using any modern web browser. This version provides several display editing and manageability enhancements.

Watch an overview of the new features here.

Features

Display editing and process monitoring

- **Font and font size**
  You can set the font and font size on all PI Vision symbols including the trend, table, and gauge symbols.
- **Bulk edit symbols**
  You can select multiple symbols and edit them at the same time.
- **Time series table**
  A new time series table symbol allows you to view timestamps and recorded values from the PI System.
- **Multi-state capability for the table symbol**
  On the existing table symbol, you can apply multi-stating to a particular row or the entire table so that cells in the table are color coded based on their current values.
- **Rich-text editor for text symbol**
  The text symbol now supports font styling and word wrap.
- **Preserved zoom levels**
  For each user, displays open at the same zoom level and positioning that was last used from the same browser and machine.

Updates to Turbine Operations display in PI Vision

John Swartzentruber
To ✅ John Maytum

🛡 General\Internal

Hi John,

John Iwasz made some changes to the Turbine Operations display. I would like to see if you could look at what was done and add few things that are now available in the new version of PI Vision.

- The overheated state doesn't provide us details on which temperature probe has overheated. Could you add this detail to the display?
- We've had some concerns lately about the Nacelle temperature. Can you add something that shows us how often we are moving into an overheated state over the course of a day?
- We want to view this in kiosk mode on a wall and I'm concerned some of the font sizing for the turbine details could be too small.
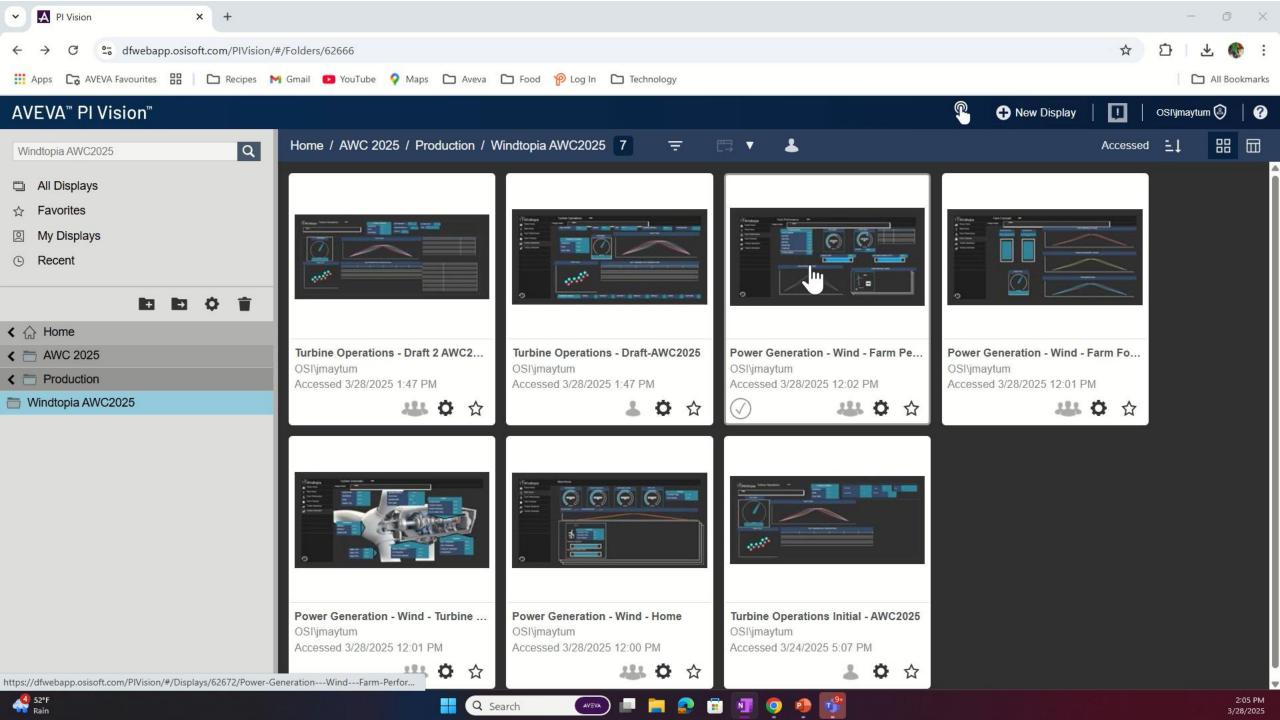
You can access it in the dev folder here: https://dfwebapp.osisoft.com/PIVision/#/Folders/62664

Please let me know once it's in a good state and I can move it to the production folder and update permissions so the rest of the team can use it.

John Swartzentruber (he/him)

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AVEVA™ PI Vision™

New Display

OSI\jmaytum

Windtopia AWC2025

All Displays

Favorites

My Displays

Recent

Home

AWC 2025

Production

Windtopia AWC2025

Accessed

Turbine Operations - Draft 2 AWC2...
OSI\jmaytum
Accessed 3/28/2025 1:47 PM

Turbine Operations - Draft-AWC2025
OSI\jmaytum
Accessed 3/28/2025 1:47 PM

Power Generation - Wind - Farm Pe...
OSI\jmaytum
Accessed 3/28/2025 12:02 PM

Power Generation - Wind - Farm Fo...
OSI\jmaytum
Accessed 3/28/2025 12:01 PM

Power Generation - Wind - Turbine ...
OSI\jmaytum
Accessed 3/28/2025 12:01 PM

Power Generation - Wind - Home
OSI\jmaytum
Accessed 3/28/2025 12:00 PM

Turbine Operations Initial - AWC2025
OSI\jmaytum
Accessed 3/24/2025 5:07 PM

https://dfwebapp.osisoft.com/PIVision/#/Displays/62672/Power-Generation---Wind---Farm-Perfor...

Apps AVEVA Favourites Recipes Gmail YouTube Maps Aveva Food Log In Technology All Bookmarks

AVEVA™ PI Vision™

New Display OSI\jmaytum

Assets

Turbine Operations Initial - AWC2025 *

Overheat

Home
Windtopia
Big Buffalo Wind Farm
Overheat*

Generator 1 Temperature
Overheated
Manual entry

Generator 2 Temperature
Overheated
Manual entry

Nacelle Temperature
Overheated
Manual entry

Tower Base 1 Temperature
Overheated
Manual entry

GE02
Overheat Alarm
Overheating delta limit

1 - 50 of 68

Windtopia Turbine Operations: Turbine GE08

GE01 GE02 GE03 GE04 GE05 GE06 GE07 GE08 GE09 GE10

Turbine Details	
Manufacturer	GE
Model	1.5 csCWE
Power Rated	1,500 kw

Daily Generation 11.0 MWh
Capacity 68.9 %
State Load Operation
Operating Efficiency 93.2 %
Overheat Alarm

Wind Speed
11.26 m/s

Power Trends
Active Power - 10 min rolling avg 614.59 kW
Expected Power - 10 min rolling avg 572.62 kW
Active Power 1,326.4 kW
Expected Power 671.93 kW
3/20/2025 1:19:11 PM   1d   3/21/2025 1:19:11 PM

Name	Value
GE01|Bearing A Temperature|Overheated	0
GE01|Bearing B Temperature|Overheated	0
GE01|Gearbox Temperature|Overheated	0
GE01|Generator 1 Temperature|Overheated	1
GE01|Generator 2 Temperature|Overheated	1
GE01|Nacelle Temperature|Overheated	1
GE01|Tower Base 1 Temperature|Overheated	0

Power Curve
Power Curve GE08|Active Power (kW)

High Temperature and Curtailment Events

Event Name	Asset	Start Time	End Time	Reason	Acknowledgment
HighTurbineTemp_GE08_2025-03-13 16:25:42.500	GE08	3/13/2025 4:25:42 PM	In Progress		Acknowledge
HighTurbineTemp_GE08_2025-03-01 23:47:46.556	GE08	3/1/2025 11:47:46 PM	In Progress		Acknowledge
HighTurbineTemp_GE08_2025-02-01 01:58:26.936	GE08	2/1/2025 1:58:26 AM	In Progress		Acknowledge
HighTurbineTemp_GE08_2025-01-11 09:41:28.328	GE08	1/11/2025 9:41:28 AM	In Progress		Acknowledge
HighTurbineTemp_GE08_2024-12-28 01:10:26.574	GE08	12/28/2024 1:10:26 AM	In Progress		Acknowledge
HighTurbineTemp_GE08_2024-11-30 10:23:11.390	GE08	11/30/2024 10:23:11 AM	In Progress		Acknowledge

Time	GE01|Nacelle Temper
3/20/2025 3:43:21 AM	0
3/20/2025 1:19:11 PM	1
3/21/2025 1:31:31 AM	1
3/21/2025 3:12:59 AM	1
3/21/2025 4:54:44 AM	1
3/21/2025 6:36:33 AM	1
3/21/2025 12:42:39 PM	1

3/20/2025 1:19:11 PM   1d   Now   3/21/2025 1:19:11 PM

51°F
Cloudy

Search

2:55 PM
3/28/2025

RE: Updates to Turbine Operations display in PI Vision

John Maytum
To ⊘ John Swartzentruber

Fri 3/28/2025 6

😊 ↩ Reply ↩↩ Reply All → Forward

John,

I've made some modifications based on your request. The new features made all this pretty simple. Please look and if it is to your liking post to production.

Here is a direct link to the display: https://dfwebapp.osisoft.com/PIVision/#/Displays/62668/Turbine-Operations---Final-AWC2025

Thanks,

John Maytum

Seattle, WA

AVEVA | A global industrial software leader

Twitter | YouTube

| LinkedIn | Facebook | aveva.com

From: John Swartzentruber <john.swartzentruber@aveva.com>
Sent: Friday, March 28, 2025 12:12 PM
To: John Maytum <john.maytum@aveva.com>
Subject: Updates to Turbine Operations display in PI Vision

Hi John,

John Iwasz made some changes to the Turbine Operations display. I would like to see if you could look at what was done and add few things that are now available in the new version of PI Vision.

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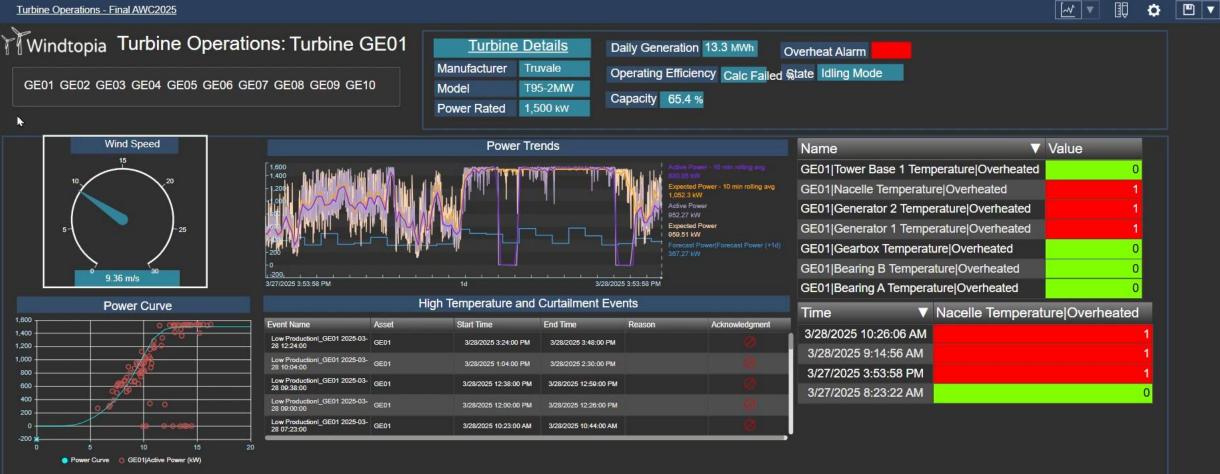
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Turbine Operations - Final AWC2025

Windtopia — Turbine Operations: Turbine GE01

GE01 GE02 GE03 GE04 GE05 GE06 GE07 GE08 GE09 GE10

Turbine Details

Manufacturer	Truvale
Model	T95-2MW
Power Rated	1,500 kw

Daily Generation **13.3** MWh

Operating Efficiency **Calc Failed**

Capacity **65.4 %**

Overheat Alarm

State **Idling Mode**

Wind Speed

9.36 m/s

Power Curve

● Power Curve   ○ GE01|Active Power (kW)

Power Trends

Active Power - 10 min rolling avg
880.85 kW
Expected Power - 10 min rolling avg
1,052.3 kW
Active Power
952.27 kW
Expected Power
959.51 kW
Forecast Power|Forecast Power (+1d)
367.27 kW

3/27/2025 3:53:58 PM   1d   3/28/2025 3:53:58 PM

Name ▼	Value
GE01|Tower Base 1 Temperature|Overheated	0
GE01|Nacelle Temperature|Overheated	1
GE01|Generator 2 Temperature|Overheated	1
GE01|Generator 1 Temperature|Overheated	1
GE01|Gearbox Temperature|Overheated	0
GE01|Bearing B Temperature|Overheated	0
GE01|Bearing A Temperature|Overheated	0

High Temperature and Curtailment Events

Event Name	Asset	Start Time	End Time	Reason	Acknowledgment
Low Production|_GE01 2025-03-28 12:24:00	GE01	3/28/2025 3:24:00 PM	3/28/2025 3:48:00 PM		⊘
Low Production|_GE01 2025-03-28 10:04:00	GE01	3/28/2025 1:04:00 PM	3/28/2025 2:30:00 PM		⊘
Low Production|_GE01 2025-03-28 09:38:00	GE01	3/28/2025 12:38:00 PM	3/28/2025 12:59:00 PM		⊘
Low Production|_GE01 2025-03-28 09:00:00	GE01	3/28/2025 12:00:00 PM	3/28/2025 12:26:00 PM		⊘
Low Production|_GE01 2025-03-28 07:23:00	GE01	3/28/2025 10:23:00 AM	3/28/2025 10:44:00 AM		⊘

Time ▼	Nacelle Temperature|Overheated
3/28/2025 10:26:06 AM	1
3/28/2025 9:14:56 AM	1
3/27/2025 3:53:58 PM	1
3/27/2025 8:23:22 AM	0

3/27/2025 3:53:58 PM   1d   Now   3/28/2025 3:53:58 PM

https://dfwebapp.osisoft.com/PIVision/

Sign in to access this site

Authorization required by https://dfwebapp.osisoft.com

Username   osi\osibuild

Password

Sign in   Cancel

Development   🔍

All Displays

☆ Favorites

My Displays

🕐 Recent

📁 📂 ⚙ 🗑

‹ 🏠 Home

📁 AWC 2025

📁 Development   ›

📁 Production   ›

Folder Settings   ⊗

Name | Development |

Permissions   ☐ Inherit from **AWC 2025**

Unassigned AF Identities		Identity	Permission
Filter Identities		OSI\jmaytum	Administrator ⌄
3rd Party Access		osi\jswartzentruber 👤	Administrator ⌄
3rd Party Food and Bevera…			
3rd Party Power Generatio…			
3rd Party T&D Viewers			
3rd Party Water Viewers			
AAASIDErrorTroubleshooting			
Administrators			
Admins			
Asset Analytics			
Asset Analytics Recalculation			
Asset Based PI Builders			
BI Integrator Administrators			
BPTempAccess			
BUILTIN\Guests			
Christian Leroux			
Control			
control.pen			
DanLopez			
Dario			
DeleteMastersGroup			
DemoTeam			

👤 Your identities   ↳ Inherited Identities   ☐ Override permissions on descendants ⍰

Save   Cancel

PI Vision

https://dfwebapp.osisoft.com/PIVision/#/Folders/62662

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New Display

OSI\osibuild

AWC 2025

All Displays

Favorites

My Displays

Recent

Home

AWC 2025

Production

Home / AWC 2025 0

Accessed

Click New Display on the header to create a display

Overview

Overview

PI Vision Database [Manage Configuration]

Status: Database	SQL Server	Database	Connecting to PI Vision Services As
✅	DFPIVisionPrd\SQLEXPRESS	PIVision	OSI\svc-dfpicoresightsvc

Data Servers Allowed [Manage Configuration]

Status	Server	Version	Role	Connecting As	PI User
❌	DFPIServerPrd.osisoft.ext				

Asset Servers/Databases Allowed [Manage Configuration]

Status	Server	Database	Version
✅	DFPIAFSERVERPRD		3.1.0.1177
		AlphaEnergy	
		Asset Based PI	
		AVEVA Integration Demos	
		ChemiCo	
		ChemStar	
		ChiChemCo	
		ChiChemCo_2	
		ChiChemCo_3	
		CONNECTToPIData	
		Data Centers	

Configuration
Security
Display Defaults
User Settings
Display Management
Reports
Display Sessions

Summary of Key New Features Used

Source: PI Vision 2024 [Release Notes](#)

- **New Display Search and List View**

  - Link to display folders

- **New and Updated Symbol Configuration**

  - Add Timeseries Data Symbol

    - Show multistate on table

  - Show multi-symbol edit capabilities

    - Change fonts & font sizes

- **Enhanced folder and display permissions**

  - User edits folder level permissions.

  - User applies access to child folders by setting inheritance on the current parent folder

  - Move a folder with all its displays

- **Enhanced administration**

  - View connected users and data access times for all open displays

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YOU shape our roadmap

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!

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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.

Visit the AVEVA PI Vision booth in the Operate &
Optimize area of the Innovation Zone.

Thank you!

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The Company shall not be obliged to disclose any revision to these forward-looking statements to reflect events or circumstances occurring after the date on which they are made or to reflect the occurrence of future events.

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@avevagroup

ABOUT AVEVA

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.

Learn more at www.aveva.com

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