

# X - Force

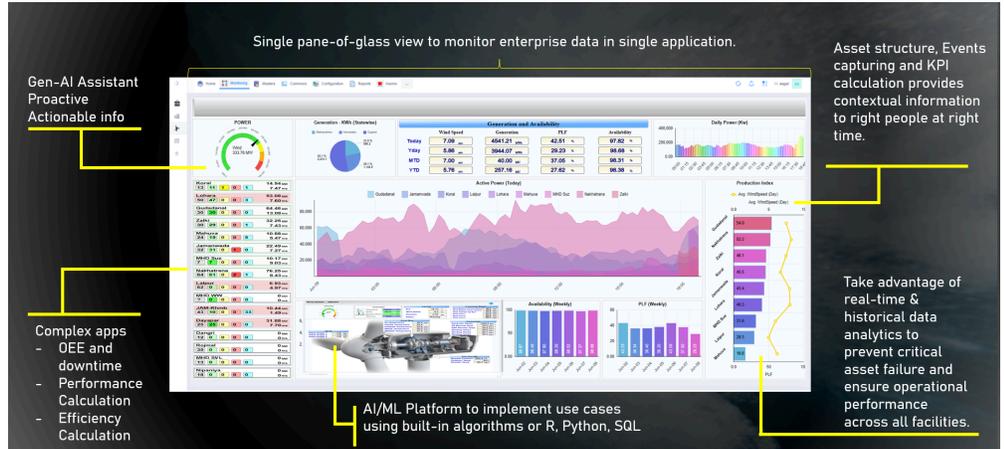
Plant Information Platform

## Overview

X-Force Plant Information Platform (PIP) is an advanced historian system that collects, stores, and analyses real-time data from PLCs, SCADA, DCS, and IoT devices. Optimized for high-speed, high-volume logging, it ensures reliable access to historical process data for analysis, reporting, and compliance.

## Unified Intelligence Platform for Operational Excellence

- Get a single-pane-of-glass view to monitor and manage all enterprise operations from one application.
- Enable Gen-AI-driven proactive insights to ensure timely, actionable decision-making.
- Leverage advanced analytics and AI/ML algorithms for predictive performance and KPI optimization.
- Drive operational efficiency, prevent asset failures, and unlock value from complex industrial data.



## Value Delivered with X-Force PIP



### App Engine

Use our pre-build or create your own logic in .net or python.



### Connect

OT – OPC-DA/UA, Modbus, DNP, IEC-61850, DLMS IT – ODBC, RESTAPI, IIoT - MQTT Collector Application for remote installation with store/forward capabilities



### History

High-performance process historian. 300K per server, 100K Samples/Sec per Server ,Scalable to 5M Tags with distributed architecture



### Graphics

Web & Mobile compatible UI/UX interface. Built in graphics library for industry applications.



### Asset Structure

Map raw data into actionable insight. Combine process data, engineering data, maintenance, commercial, documents, SOP, Analysis at single place.



### Alarms

Define Alarms on data point based on value, deviation, ROC, lookup table or combined conditions. Built in Alarm analytics. Audit / Trail Events for Operator Actions, Security and System Health.



### Reports

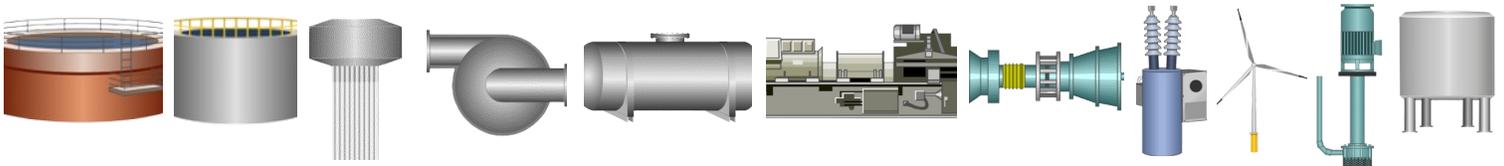
Define reports based on real-time or aggregated data. Scheduled, Ad-hoc & Customized reports. Intuitive & self-explanatory Dashboard with Runtime changes



### AI/ML

Implement your ML use cases in real time with python or R. Inbuilt platform with more than 50 algorithms. Use Generative AI Assistant to answer from your own data, on-premises

## Graphics Library



## X- Force PIP Trends

- Visualize real-time and historical data trends to identify patterns, anomalies, and performance insights.
- Empower operators and analysts with interactive, high-resolution charts for faster and smarter decision-making.



## X- Force PIP Alarms & Reports

- Configure intelligent alarms based on thresholds, deviations, or complex logic with built-in analytics and audit trails.
- Generate real-time and historical reports with customizable formats for actionable insights.

## X- Force PIP Report

- Generate real-time and historical reports from process and operational data.
- Customize reports to meet compliance, performance, and production needs.
- Schedule automated reports for timely insights and data-driven decisions.

		Daily Generation Report for		Jamanwada	
	WTG Actual Name	Wind Speed	PLF	Availability	Generation Today
3	JMA038	4.28	6.56	99.93	3306.00
4	JMA041	4.40	9.38	99.86	4728.00
5	JMA042	4.65	9.73	99.93	4906.00
6	JMA044	5.42	14.80	99.86	7460.00
7	JMA052	5.44	15.99	99.93	8058.00
8	JMA053	5.36	11.64	99.17	5869.00
9	JMA054	5.40	11.19	99.72	5638.00
10	JMA055	6.71	18.50	99.72	9326.00
11	JMA056	6.24	15.13	89.58	7626.00
12	JMA057	6.24	16.21	99.86	8169.00
13	JMA100	4.89	11.68	99.86	5886.00
14	JMA102	5.14	12.00	98.82	6048.00
15	JMA103	4.64	7.87	99.86	3967.00
16	JMA104	4.85	9.72	99.93	4901.00
17	JMA106	4.27	7.83	99.86	3946.00
18	JMA108	4.48	6.41	98.89	3232.00
19	JMA113	5.48	15.33	99.93	7728.00
20	JMA128	4.56	7.75	99.93	3906.00
21	JMA131	4.37	9.15	99.93	4610.00
22	JMA134	4.59	10.19	98.96	5137.00
23	JMA162	5.86	16.35	99.86	8240.00
24	JMA168	5.43	15.70	99.86	7915.00
25	JMA182	4.66	8.33	99.93	4199.00
26	JMA183	4.92	9.05	99.10	4559.00
27	JMA197	5.18	13.69	99.93	6901.00
28	JMA199	5.15	15.03	99.86	7574.00
29	JMA200	5.91	18.69	99.86	9421.00
30	JMA203	5.53	16.95	99.93	8545.00

Wtg Name	01-02-2023	02-02-2023	03-02-2023	04-02-2023	05-02-2023	06-02-2023	07-02-2023	08-02-2023	09-02-2023	10-02-2023	11-02-2023
GZA01	6.33	6.01	5.48	4.88	5.07	4.77	2.77	4.92	5.64	4.28	5.88
GZA02	6.38	6.81	6.11	4.89	5.41	4.77	3.02	5.19	5.19	4.81	4.48
GZA03	5.98	6.36	5.73	4.67	4.69	4.56	2.83	4.84	4.58	4.51	4.58
GZA04	6.46	6.03	5.21	4.91	5.27	5.06	2.87	3.66	4.81	4.48	4.81
GZA05	6.37	6.75	5.39	4.73	4.98	4.97	2.89	5.22	4.76	4.48	4.81
GZA06	6.87	6.53	5.45	4.26	4.98	4.64	2.86	4.67	4.92	4.92	4.92
GZA07	6.31	6.87	5.45	4.73	5.07	5.11	2.89	5.18	4.82	4.69	4.76
GZA08	6.31	6.92	5.53	4.73	5.28	5.25	2.89	4.74	4.89	4.76	4.76
GZA09	6.36	6.85	5.63	4.79	5.20	5.16	2.91	4.76	4.78	4.78	4.66
GZA10	6.33	6.64	5.72	4.74	4.77	4.88	2.55	5.31	4.46	4.29	4.66
GZA11	6.53	6.86	5.72	4.73	5.06	4.84	2.89	4.92	4.81	4.66	4.66
GZA14	6.25	6.92	5.48	4.53	5.05	4.78	2.75	5.03	4.66	4.58	4.58
GZA15	6.45	6.81	5.45	4.89	5.27	4.92	2.75	4.92	4.92	4.58	4.58
GZA16	6.82	7.53	6.13	4.85	5.76	5.24	2.75	5.42	5.11	4.89	4.89
GZA17	6.55	7.84	6.84	4.55	5.72	5.07	2.74	5.31	4.81	4.77	4.77
GZA18	5.56	6.46	5.39	4.77	4.87	4.57	2.58	5.05	4.81	4.72	4.72
GZA19	6.54	7.24	6.03	5.37	5.72	5.15	2.68	5.49	4.99	4.79	4.79
GZA20	4.4	4	4	4	4	4	4	4	4	4	4
GZA21	6.93	7.24	6.77	4.45	5.47	5.11	2.56	5.21	5.01	5.08	5.08
GZA22	6.64	7.14	5.78	4.48	5.35	5.17	2.64	5.27	4.87	5.03	5.03
GZA23	6.86	7.56	6.37	5.39	5.76	5.15	2.74	5.47	5.35	5.35	5.35
GZA24	6.35	6.94	5.63	4.17	5.25	5.03	2.69	5.13	4.85	4.86	4.86
GZA25	6.77	6.71	5.69	4.38	5.28	5.13	2.74	5.14	4.84	4.94	4.94
GZA26	6.65	6.65	5.56	4.29	5.48	5.31	2.57	4.45	4.96	4.98	4.98
GZA27	6.38	7.37	5.91	4.51	5.88	5.24	2.51	4.79	4.51	4.92	4.92
GZA28	6.47	7.1	5.92	4.26	4.95	4.71	2.57	4.57	4.82	4.89	4.89
GZA29	6.34	6.68	5.39	4.66	4.98	4.73	2.64	4.75	4.48	4.67	4.67
GZA30	6.34	6.81	5.51	4.97	5.15	4.84	2.61	4.91	4.58	4.67	4.67
GZA31	6.48	7.01	5.71	5.69	5.65	5.28	2.64	5.49	4.99	4.79	4.79

Wtg Name	01-02-2023	02-02-2023	03-02-2023	04-02-2023	05-02-2023	06-02-2023	07-02-2023	08-02-2023
GZA01	100	100	100	100	100	100	100	100
GZA02	100	100	100	100	100	90.1407	100	100
GZA03	100	100	100	100	100	100	96.9516	100
GZA04	100	100	100	100	100	100	97.1575	100
GZA05	100	100	100	100	100	100	100	100
GZA06	100	100	100	100	100	100	100	99.7969
GZA07	100	100	100	100	100	100	100	100
GZA08	100	100	100	100	100	100	100	100
GZA09	100	100	100	100	100	100	100	100
GZA10	100	100	100	100	100	100	100	100
GZA12	100	100	100	100	100	100	97.7508	100
GZA13	100	99.631	100	100	100	100	99.8426	100
GZA14	100	100	100	100	100	100	100	100
GZA15	100	100	100	100	100	100	100	97.7662
GZA16	100	100	100	100	100	100	97.6836	100
GZA17	100	100	99.5417	100	100	100	100	100
GZA18	100	100	100	100	100	100	100	100
GZA19	100	100	100	100	100	100	97.7877	100
GZA20	100	100	100	100	100	100	100	100
GZA21	100	100	99.9154	100	100	100	100	100
GZA22	100	100	100	100	100	100	97.7535	100
GZA23	100	100	100	100	100	100	100	97.2037
GZA24	100	100	100	100	100	100	100	100
GZA25	100	100	100	100	100	100	97.2516	100
GZA26	100	100	100	100	100	100	100	100
GZA27	100	100	100	100	100	100	100	100
GZA28	100	100	100	99.6481	100	99.6204	100	100
GZA29	100	100	100	100	100	100	100	100
GZA30	100	100	100	100	100	100	100	100
GZA31	100	100	100	88.0278	100	100	97.5694	100

## X - PIP Dashboard / Report and Mobile View

- Monitor plant performance through intuitive, real-time dashboards tailored to your operations.
- Generate detailed reports for analysis, compliance, and strategic decision-making.
- Access critical insights anytime, anywhere with a responsive mobile-friendly interface.



## Our Valued Customer

**5 out of top 10**  
Food & Beverages

**90%**  
of Oil & Gas Installations

**8 out of top 10**  
Chemical & Fertilizer

**7+**  
Power Companies

**10+**  
OEM

**9 out of top 10**  
Metal Industry

## X - PIP Summary

X-Force Plant Information Platform (PIP) is a high-speed historian system that collects and analyzes real-time data from PLCs, SCADA, DCS, and IoT devices. It ensures reliable access to historical data for analysis, reporting, and compliance. Integrated with an AIML Assistant, PIP offers advanced insights, predictive analytics, and automated decision-making to optimize operations.