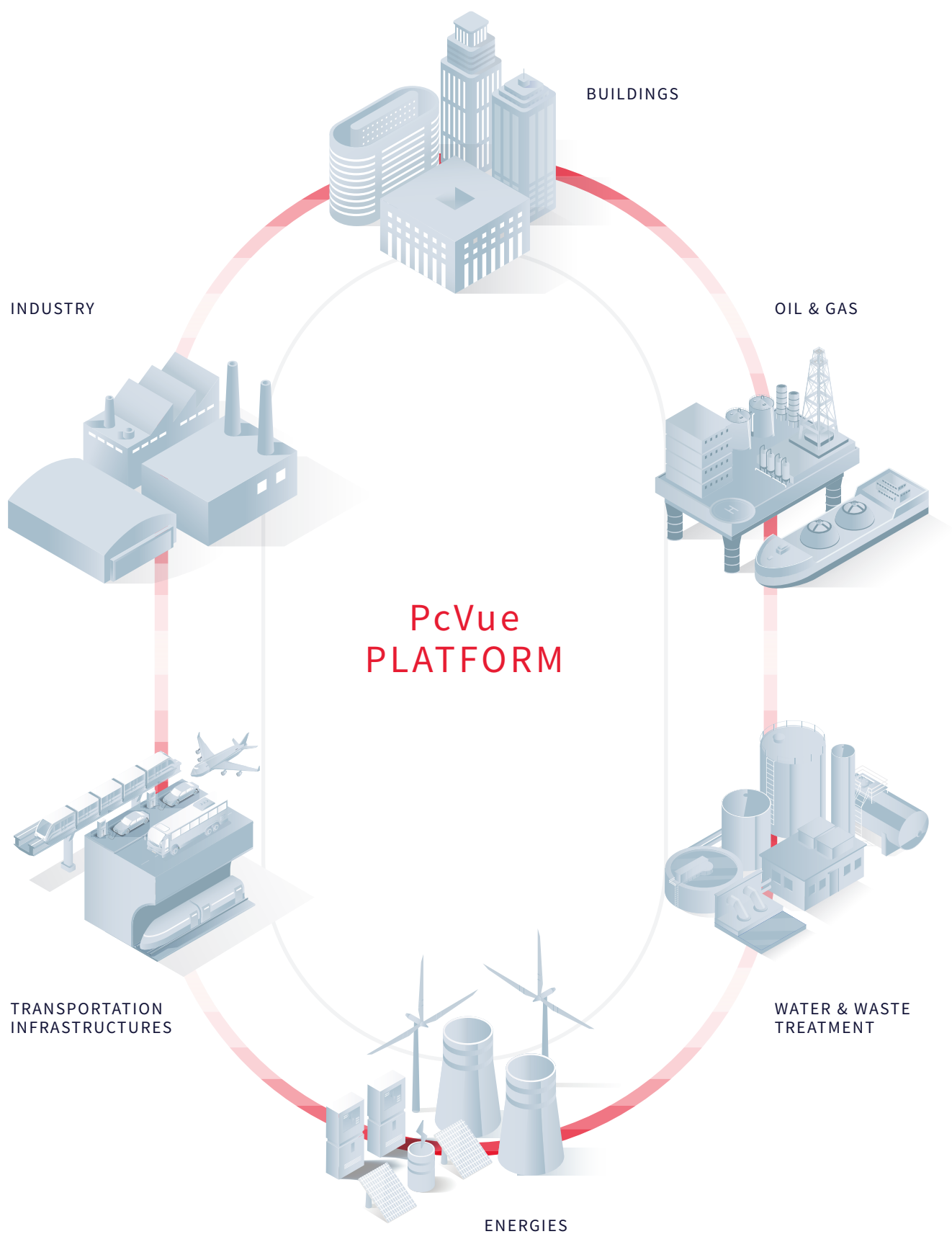




Open connectivity SCADA software platform

BUSINESS SOLUTIONS

A multi-services & data integration platform
designed for your needs



PcVue monitors and controls any kind of process with a single platform that combines **user-friendly interface, open connectivity and built-in features** adapted to each market



SMART BUILDINGS



Office buildings, data centers, industrial facilities, hospitals, airports, train stations, parking lots, malls, universities



"SUPERVISION IS THE EXTENSION OF BUILDINGS INCREASINGLY
CONNECTED, INTERACTIVE, INTUITIVE... AND SMARTER!"

NEEDS

- ✓ Manage one or several buildings in a centralized and cohesive manner
- ✓ Ensure occupants' comfort and safety in all circumstances
- ✓ Guarantee proper functioning and durability through efficient maintenance
- ✓ Optimize the return on investment while ensuring regulatory compliance defined through a web interface
- ✓ Run an open and scalable system that adapts to changes at lower cost
- ✓ **Make the building more intuitive and interactive for users**

SOLUTIONS

- ✓ Monitoring solutions for all technical aspects of the building
- ✓ **Contextual mobile solution for intuitive operation**
- ✓ Intuitive graphical interface for monitoring and control of facilities, locally or remotely
- ✓ Monitoring and analysis of real-time performance
- ✓ **Native support for standard protocols BACnet™, LonWorks™, KNX, Modbus®, LoRa, sigfox, MQTT, SNMP, OPC.**
- ✓ Optimized management of alarms and events
- ✓ Data archiving locally or in the cloud
- ✓ Advanced data analysis & Reports
- ✓ Single development platform featuring an intuitive configuration environment
- ✓ Interoperability with all building management services

REFERENCES

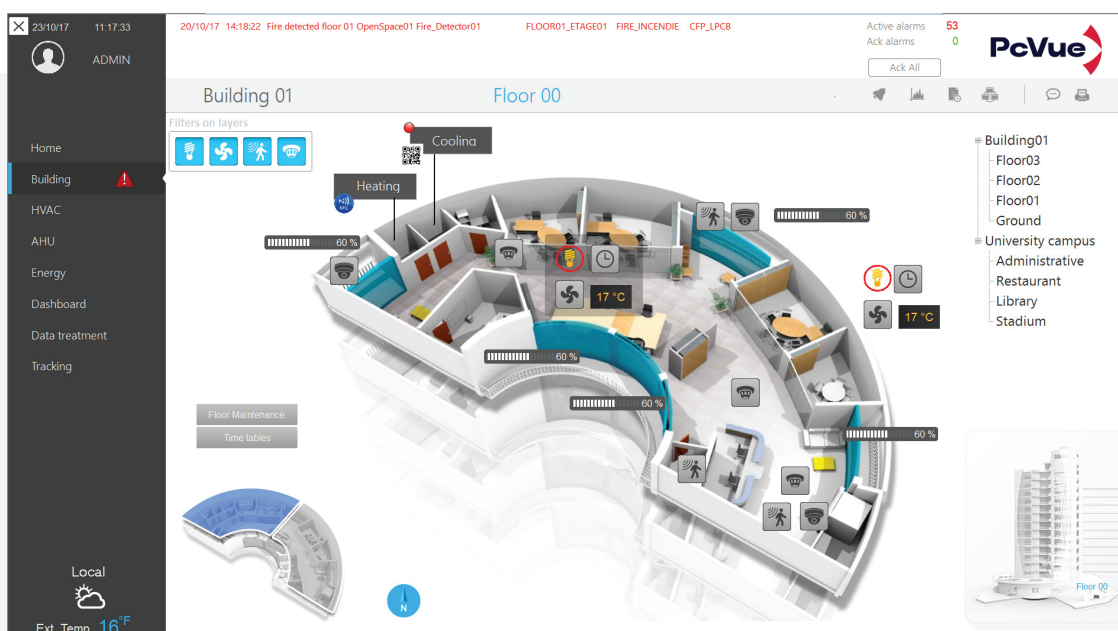
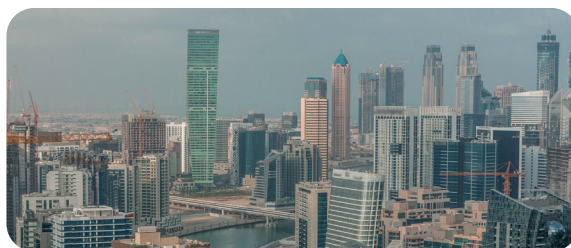
PARIS AREA AEROPORTS / Paris - France
BMS of one of the Paris airport Terminals

AIRBUS / Toulouse - France
BMS of the buildings used for the Airbus A380 assembly line

FINANCIAL CENTER TAIPEI 101 / Taipei - Taiwan
Energy management system of the TAIPEI 101 tower

HOTEL RITZ / Paris - France
BMS of the hotel

COEUR DÉFENSE / Courbevoie - France
The BMS of the Coeur Défense tower



ENERGY PRODUCTION & DISTRIBUTION



Renewable energy, nuclear energy,
heat production, substations automation



"PCVUE IS FULLY INVOLVED IN THE CONTROL OF ENERGIES WHICH IS A MAJOR STAKE OF OUR WORLD."

NEEDS

- ✓ Providing energy reliably and continuously
- ✓ Supervizing the facilities of energy production: monitor and control, keep in operational conditions
- ✓ Maintain a sufficient level of production respecting the regulatory constraints



SOLUTIONS

- ✓ Supervision and hypervision of the systems of energy production
- ✓ Real-time control and alarm management and events
- ✓ Long-term operation with analysis tool and data processing (archiving, curves, ...)
- ✓ Production tracking and report editions comply with regulatory requirements
- ✓ Reliable, scalable and secure architectures
- ✓ A single platform to develop your application
- ✓ Built-in support for IEC 61850 DNV KEMA certified, IEC 60870, IEC 61400-25, DNP3 and ICCP
- ✓ Deployment solutions from stand-alone station to high availability distributed systems
- ✓ Ready-to-use animated symbols for power systems
- ✓ Dynamic busbar coloring
- ✓ On-line/Off-line simulation
- ✓ Events and alarms management
- ✓ KPI and generic dashboard reporting tools

REFERENCES

ELECTRABEL / Belgium

Monitoring and control of the
Bressoux power plant cogeneration

HITAVEITA REYKJAVIKUR / Island

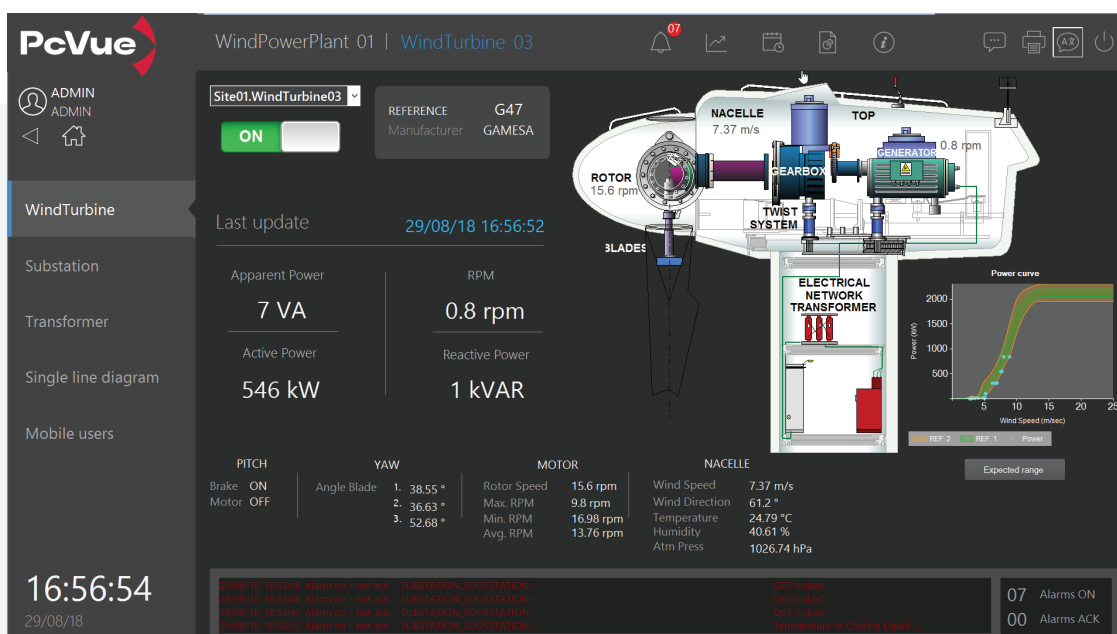
Supervision and remote control of devices of the geothermal
central of the city of Nesjavellir (2 X 30 Mw)

IBERDROLA / Worldwide

World leader in wind energy
Supervision of all IBERDROLA wind farms in the world

STATKRAFT / Norway

Supervision of the Vessingfoss hydropower plant.
The average annual production is 88 GWh



INDUSTRY



Solutions for Industry



"A UNIQUE PLATFORM CONNECTED TO ANY SYSTEM, SCALABLE AND ABLE TO ADAPT TO CHANGE SEAMLESSLY. READY FOR INDUSTRY 4.0 CHALLENGES."

NEEDS

- ✓ Monitoring and controlling any kind of industrial installations for the production or the facilities
- ✓ Connecting heterogeneous devices and standardizing operation modes
- ✓ Securely ensuring the continuity of the production
- ✓ Optimizing the operations and maintenance of the production tools
- ✓ Ensuring the traceability of production data
- ✓ Reducing cost of system updates (development, operator training)
- ✓ Benefit from sustainable solutions which can be autonomously managed by final users

SOLUTIONS

- ✓ Built-in support of the standard drivers of automation and control devices
- ✓ Optimized management of alarms, trends and events for the operation and the maintenance
- ✓ Ergonomic and user-friendly graphical interface, adaptable to all types of processes
- ✓ Single development platform including an intuitive configuration environment
- ✓ Interoperability ensured with the global system of your company : ERP, CMMS, Quality, IT
- ✓ Flexibility and scalability : from a single station to client- server architecture
- ✓ Built-in support of the 21 CFR 11 standard
- ✓ Contextual mobility solutions to facilitate the work of the operator

REFERENCES

OPTICAL GLASS MANUFACTURER / World
Monitoring the production and treatment of molded glass



GALVANO / Canada
Command Control of an electrogalvanizing line



AIR FRANCE INDUSTRY / Orly - France
Project TPM (Total Productive Maintenance)
for technical installations



DUNN-EDWARDS PAINT / US
Monitoring and control of paint production system



INFRASTRUCTURES



Airports, ports, train stations, tunnels, bridges, highways, waterways



"PCVUE GETS ALL THE MOBILITY INFRASTRUCTURES UNDER CONTROL"

NEEDS

- ✓ Supervise various technical installations
- ✓ Ensure maintenance in operational conditions
- ✓ Contribute to the safety of people

SOLUTIONS

- ✓ Open and scalable platform
- ✓ Alarm and event management
- ✓ Integration of video and intercom systems
- ✓ Management of archiving and restitution of data

REFERENCES

HIGHWAYS / France

South of France highways - A10 - A14 - Viaduc Millau



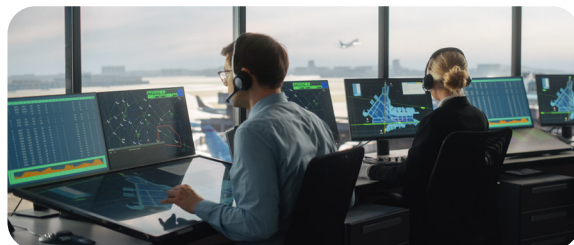
TUNNELS / France

- Croix Rousse Lyon - Monaco - Mont Serin - Payon
- Saint Gotthard - Sanef Autoroute A1 - Paris Tunnels
- Side Tunnel Brenner Autriche



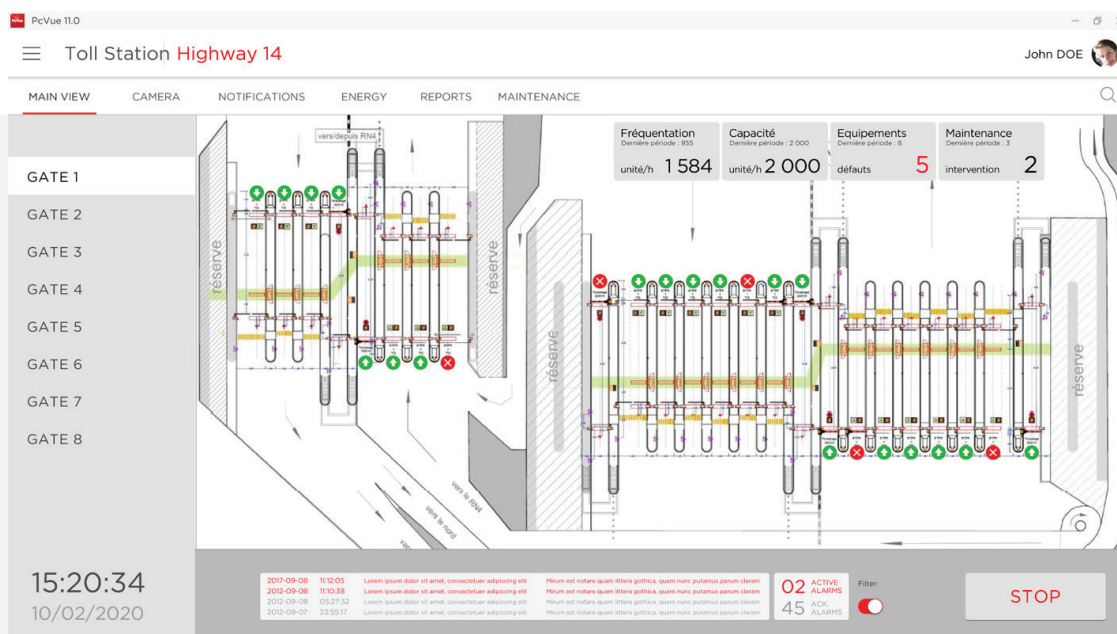
AIRPORTS / Worldwide

- Paris - Roissy - Charles De Gaulle - Le Bourget & Orly
- Brest - Campia Turzi - Carrasco - Casablanca - Genève
- Lille - Maldives - Marseille Marignane - Melbourne - Fiji
- Tahiti - Philippines - Nice - Lyon St Exupery



PARKING LOTS / France

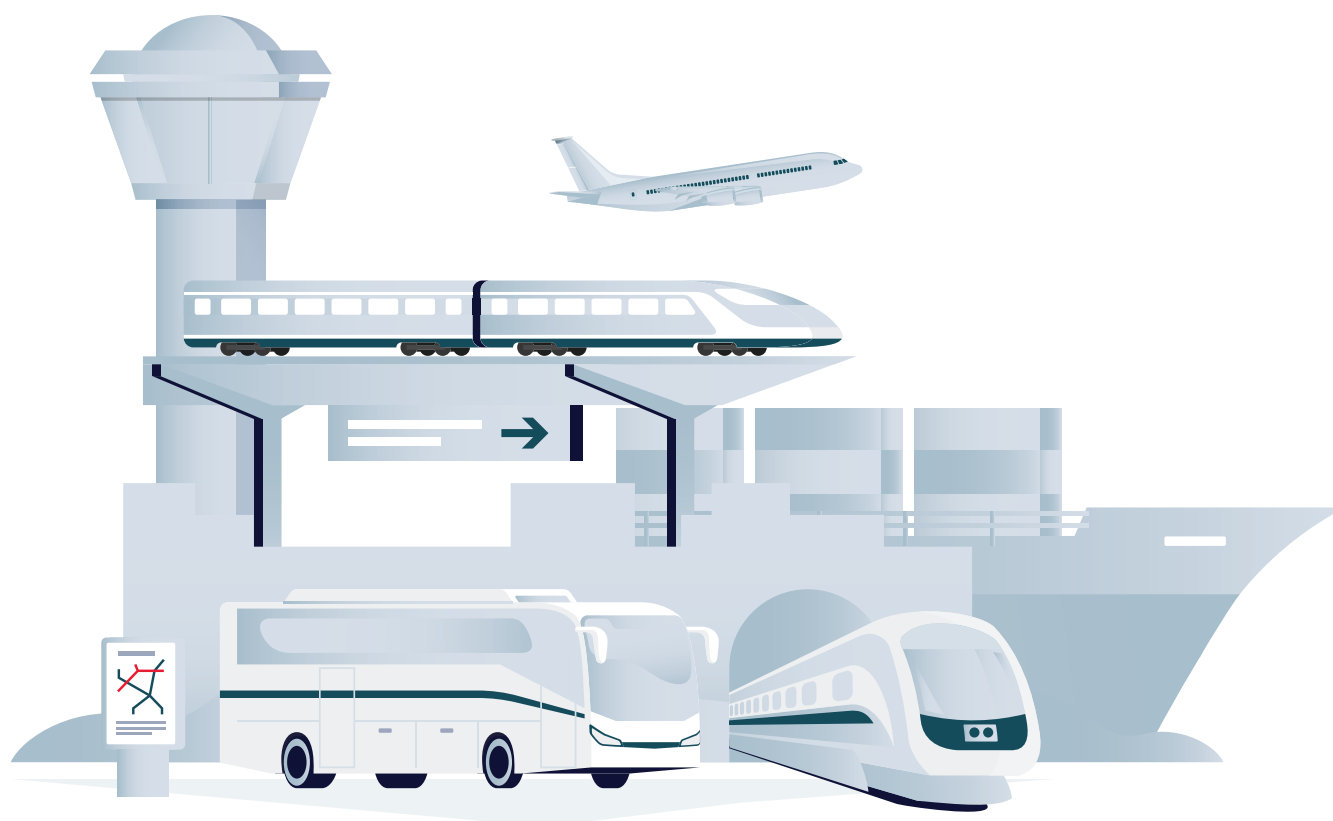
- Sepadef (Paris la Défense) - Nantes (France)
- Aéroports de Paris Orly - Aéroport de Nice - Musée du Louvres
- Monaco - Aéroport de Strasbourg - Lyon Park auto ...



TRANSPORTATION



Trains, metros, tramways, bus, electrical vehicles



"PCVUE ENSURES A HIGH AVAILABILITY MONITORING SYSTEM FOR ANY KIND OF TRANSPORT"

NEEDS

- ✓ Supervision of intra/extra urban transport facilities: monitoring and control, keep in operational conditions
- ✓ Ensure the safety of people
- ✓ Respect regulatory constraints

SOLUTIONS

- ✓ Real-time supervision and alarm management and events
- ✓ Long-term operation with analysis tool and data processing (archiving, trends...)
- ✓ Report editions that meet the requirements regulatory

REFERENCES

TRAMWAYS / France

- Lyon – Rabat – Grenoble – Montpellier
- Avignon – Angers – Nantes

METROS / Worldwide

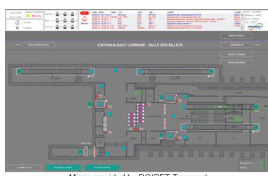
- Lyon – Marseille – Singapore – Istanbul
- Santiago de Chile – Cairo – Adelaide – Mexico city

BUS / France

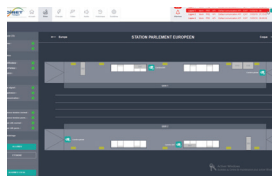
- Tours – Metz – Lyon

TRAINS / Worldwide

- Sncf - Perumka Railway,
Train Signaling Main Control Center Colombo (Sri Lanka)
- Auckland Train Signalization - Delhi Metro Rail Corporation Ltd.
- Melbourne



Mimic provided by ROIRET Transport



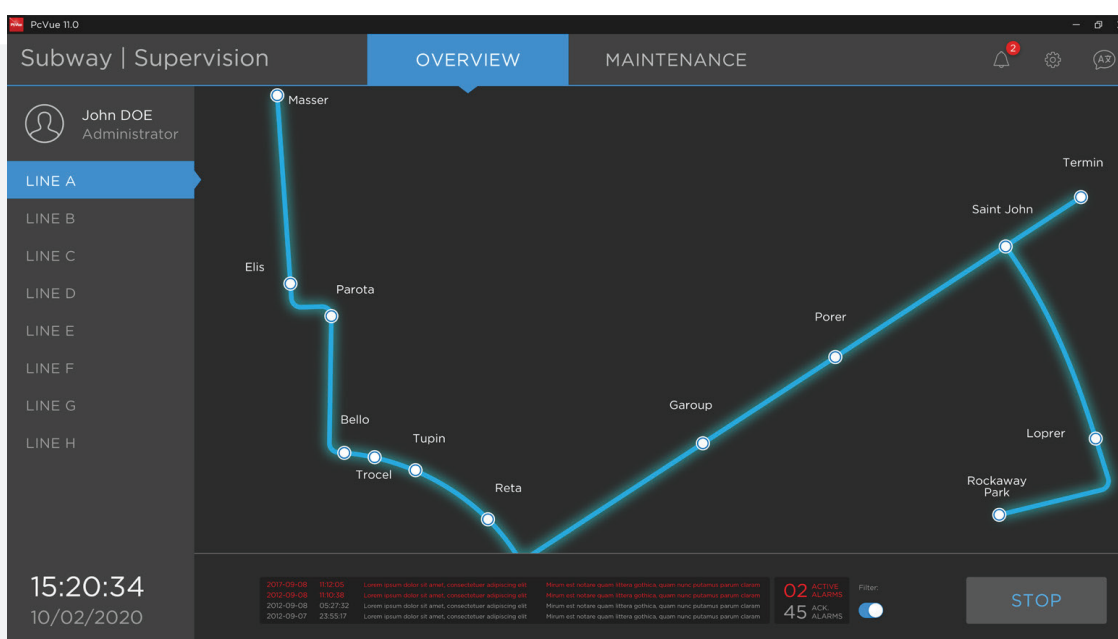
Mimic provided by ROIRET Transport



Mimic provided by ROIRET Transport



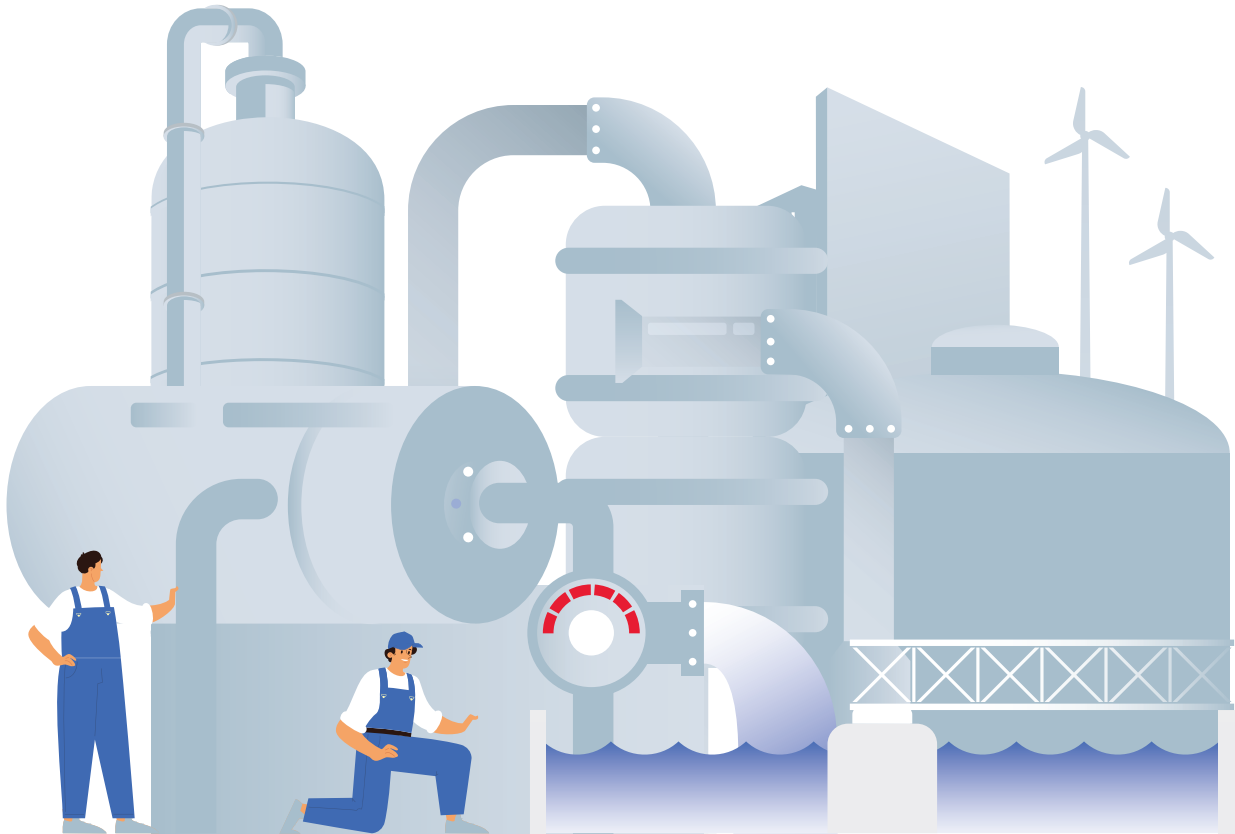
Mimic provided by ROIRET Transport



SUSTAINABLE ENVIRONMENT



Water production & distribution,
water & waste treatment



"PCVUE CONTRIBUTES TO THE GREEN CITY BY OPTIMIZING PROCESSES
WHILE ENSURING A HIGH LEVEL OF QUALITY."

NEEDS

- ✓ Monitor and control all kind of water systems
- ✓ Enables return on investment by reducing engineering time maintenance and energy costs
- ✓ Improve operational effectiveness to increase both productivity and quality of service
- ✓ Meet the requirements for compliance and regulatory reporting

SOLUTIONS

- ✓ Platform adapted to all kind of water systems
- ✓ Dedicated object libraries for Water
- ✓ Events and alarms treatment
- ✓ Powerful trends capabilities
- ✓ On-call and mobile solutions
- ✓ Data processing and reporting tools
- ✓ High availability architectures
- ✓ Telemetry solutions

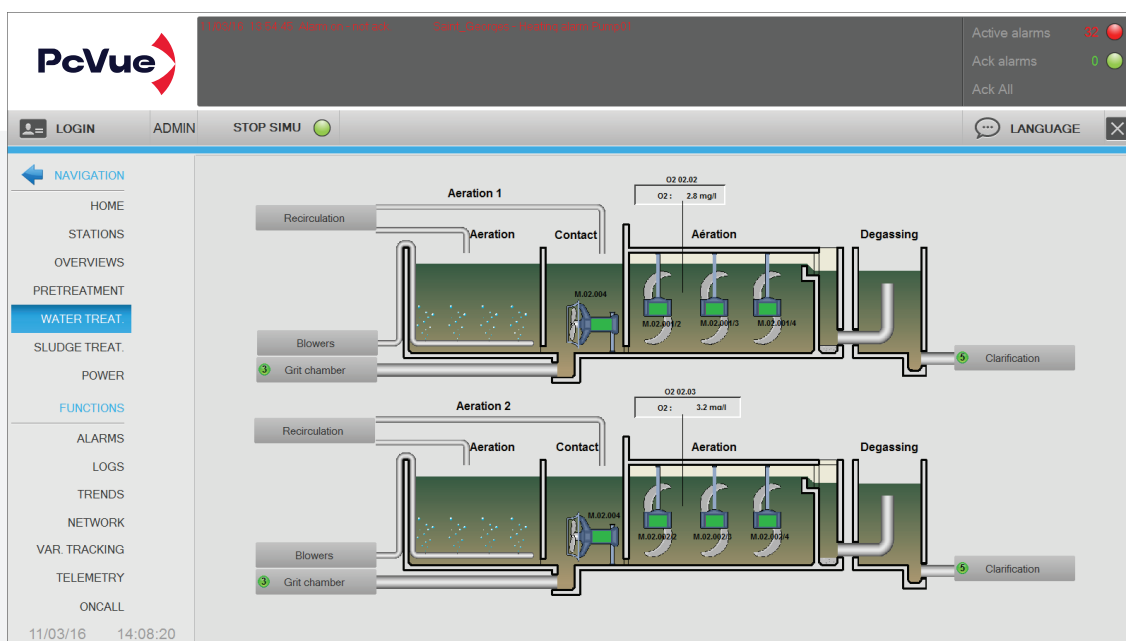
REFERENCES

WASTE WATER TREATMENT / Worldwide

- Nice - Istanbul - Florence - Bastia - Paris
- Richemont - Epernay - Belfort - Cayenne
- Water union of northern Luxembourg
- Estavayer Le Lac (Switzerland) - Bucarest,...

PRODUCTION AND DISTRIBUTION OF WATER / Worldwide

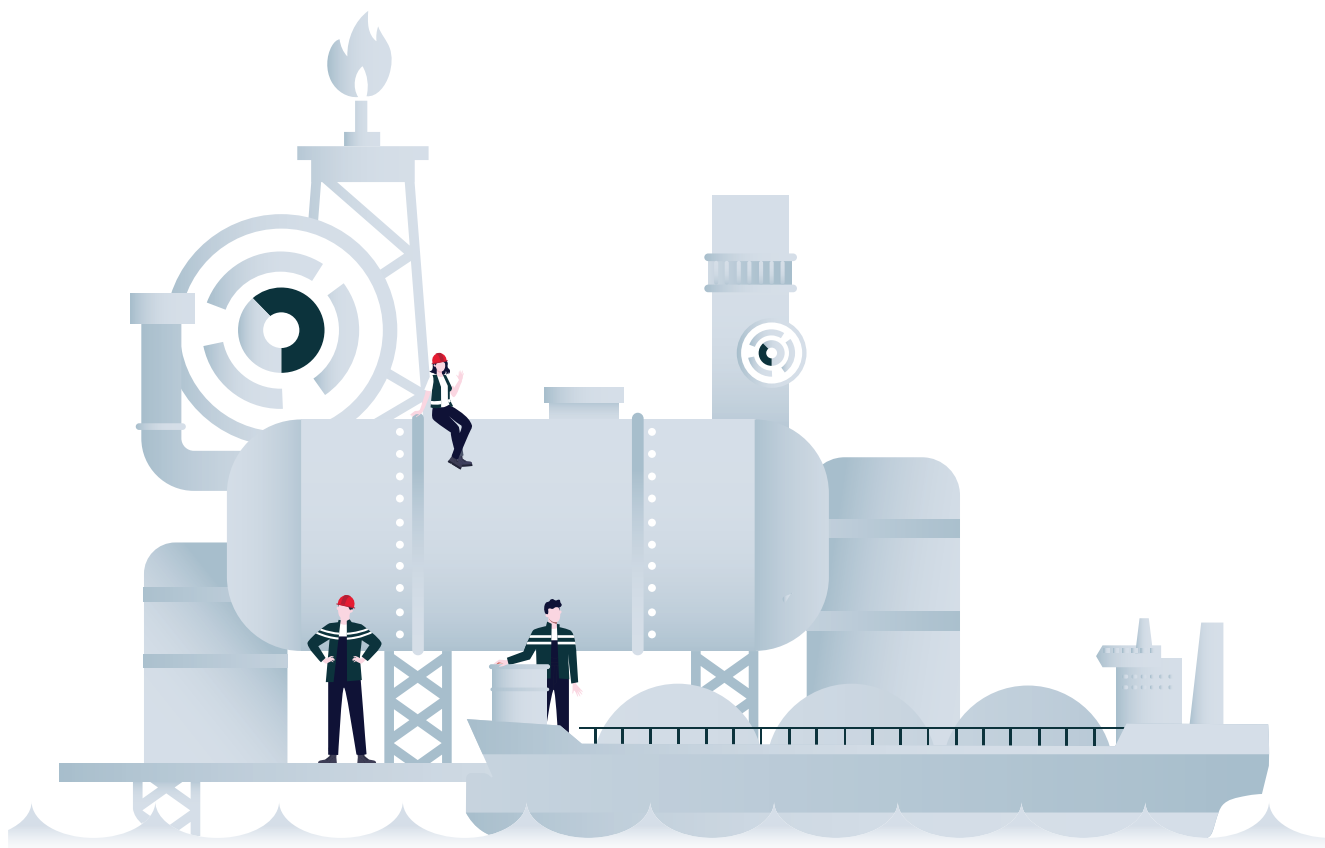
- Paris (Siaap) - Lyon - Nice - Grenoble
- Shanghai - Florence - Taksetp - Lugano
- Montpellier - Pt Indomitra Aneka Abadi (Indonesie)
- National Water Supply and Drainage Council (Sri Lanka),...



OIL & GAS



Oil & gas sites monitoring and controlling platform



"PCVUE SOLUTION TO HELP YOU IMPROVE YOUR SAFETY"

PcVue can offer remote monitoring of facilities over a large geographical area. The animated 3D mimic capability, and the user-friendly Human Machine Interface (HMI), can also help operators locate easily defective devices, this technology can be very useful for energy management systems for example .

The implementation of scada for oil & gas will greatly improve the reliability and safety of your installations and machinery by providing the right data to the right people at the right time.

By continuously monitoring your assets and recording events and alarms it can automatically schedule or alert for necessary preventive maintenance intervention.

"PROVIDING SOLUTIONS TO RECORD YOUR DATA"

The real-time data recorded for metering and product transferred can be recorded easily and referred to as a time stamped official transaction document and customized regulatory reporting can be used as contractual paper work.

Our scada oil & gas solution provides high availability and centralized scada system with the lowest total cost of ownership.

Thanks to its award winning object oriented configuration platform and by using templates, wizards and data import integrated tools, PcVue greatly reduce engineering, configuration and deployment time of our system Integrators partners, and this asset can also be very useful through scada industry software.

REFERENCES

PRODUCTION / Worldwide

- Sonangol (Angola) – Sonatrach (Algeria)
- Total Balikpapan (Indonesia)
- PTT Rayong (Thailand) – Tengiz Chevroil (Kazakhstan)
- Ourhoud (Algeria)...

PIPELINE & METERING / Worldwide

- Botas (Turkey) – Trapil (France)
- Gomel Transneft (Belorussia)
- Total GrandPuits Depot (France)...

STORAGE / Worldwide

- KOC GC24 (Kuwait)
- Shiraz & Bandar Imam Tank Management (Iran)
- Total CLOV FPSO (Angola)...



NEEDS

- ✓ Built-in time stamped protocol – data discrimination and event tracking. Time stamping at source
- ✓ Redundant architectures for high availability systems, data acquisition and backup
- ✓ SIL2, SIL 3 project references
- ✓ Archiving and reporting (via SQL Server) for diagnosis and metering application product transfer comparison
- ✓ Event management for real time and historical data
- ✓ 3D Mimics for easy “real life” equipment location
- ✓ Network behavior simulation
- ✓ Monitoring and running standby supplies
- ✓ Web HTML5 Access for remote monitoring of assets



REFERENCES

SOME SNAPSHOTS OF A FEW OF OUR INTERNATIONAL REFERENCES

ENERGY

Electrical Distribution:

- Gazprom (Siberia) - Sharjah Elec (United Arab Emirates)
- Ourhoud (Algeria)...

Cogeneration: Awirs (Belgium)

- Namurs (Belgium) - Dalkia City of Strasbourg (France)

Renewable Energy:

- Iberdrola (Spain) - Edf Energies Nouvelles (France)
- Poscon Co., Ltd (Korea) - Alstom Wind (Spain)
- Hydro, Gamesa (Spain) Thermal: St Ghislain
- Monceau (Belgium) - Siemens Energy (Italy)

BMS

- Airbus (France)
- Total Tower (France)
- Renault Factories (WW)
- Singapore Universities (Singapore)
- Sanofi Buildings (WW) - Eiffel Tower (France)
- Financial Center Taipei 101 (Taiwan)...

INDUSTRY

Food & Beverage:

- Candia (France) - Lu (France)
- Yoplait (France) - Nestle Waters (France) - Lactalis (France)
- Champagne Bollinger (France)...

Chemical/Pharmaceutical:

- Novartis (Switzerland) - Basf (Germany) - Bayer Healthcare (France)
- Divya Pharmacy (India) - Hightech Pharm Co., Ltd (Korea)...

Process:

- Skis Dynastar (France) - Rossignol (France)
- Air Liquide (France) - Verralia (France)...
- Ducati Motor Holding (Italy) - Automobili Lamborghini (Italy)

TRANSPORTATION

- Perumka Railway (Indonesia) - Smrt, Singapore Metro (Singapore)
- Istanbul Metro (Turkey) - Cairo Metro (Egypt)
- Adelaide Metro (Australia) - Lyon Metro (France) - Marseille Metro (France) - Mexico City Metro (Mexico) - Qinghai Tiber Railway (China)

INFRASTRUCTURE

Highways:

- French Highways (ASF,A10,A14,...) - Viaduc Millau (France)
- Rio- Antirio bridge (Greece), ...

Tunnels:

- Croix Rousse Lyon - Monaco - Mont Serin - Paris Tunnels (France)
- Side Tunnel Brenner (Austria) - St Gotthard (Switzerland)
- Drapetsona (Greece)...

Airports:

- Paris (France) - Nice (France) - Brest (France) - Geneva - Lille (France)
- Maldives - Teheran - Roma (Italy) - Melbourne - Fiji - Tahiti - Philippines...

Parking:

- Sepadef Paris la Défense (France) - Paris Orly Airport (France)
- Nice Airport (France) - Louvre Museum (France) - Monaco
- Lyon Park Auto (France)...

WASTE & WATER UTILITIES

Waste Water Plants:

- Nice (France) - Istanbul (Turkey) - Bastia (France)
- Paris (France) - Richemont (France) - Cayenne (France)
- North Luxembourg Water Syndicate
- Estavayer Le Lac (Switzerland) - Bucharest (Romania)...

Water Distribution:

- Paris (Siaap) - Lyon (France) - Nice (France) - Shanghai (China)
- Florence (Italy) - Taksetp (Algeria) - Lugano (Switzerland)
- Pt Indomitra Aneka Abadi (Indonesia)
- National Water Supply And Drainage Board (Sri Lanka)...

OIL & GAS

Production:

- Sonangol (Angola) - Sonatrach (Algeria)
- Total Balikpapan (Indonesia) - PTT Rayong (Thailand)
- Tengiz Chevroil (Kazakhstan) - Ourhoud (Algeria)...

Pipeline & Metering:

- Botas (Turkey) - Trapil (France)
- Total GrandPuits Depot (France)...

Storage:

- KOC GC24 (Kuwait)
- Shiraz & Bandar Imam Tank Management (Iran) - Total CLOV FPSO (Angola)...

Process:

- Skis Dynastar (France) - Rossignol (France)
- Air Liquide (France) - Verralia (France)...



PcVue FEATURES

TECHNICAL FEATURES OVERVIEW


MONITORING
AND CONTROL


COMMUNICATION
INTERFACES


DEPLOYMENT


DATA ANALYSIS


CONFIGURATION

PcVue FEATURES

MONITORING AND CONTROL	<p>Graphical Interface</p> <ul style="list-style-type: none"> - Intuitive - 2D/3D object oriented libraries - 60+ predefined animations - Multilingual texts - SIG Map Control 	<p>Advanced alarm and event management</p> <p>Configurable alarm and event viewers</p> <p>Filter, sorting, mask by status, priority and/or attribute – modifiable on line</p> <p>Contextual alarms management</p> <p>Alarm counters</p>	<p>Trends</p> <p>Simultaneous display of real time and historical trends</p> <p>Customizable interface</p> <p>Comparative trends</p> <p>Data trend export to Excel</p>
COMMUNICATION INTERFACES	<p>Wide range of protocols</p> <ul style="list-style-type: none"> - BACnet™ - DALI - KNX - LonWorks® - SIEMENS OPC MK8000 IP - POSM 	<p>Power System Automation drivers</p> <ul style="list-style-type: none"> - IEC 61870-5-104 Client/Server - IEC 61850 Client - DNP3 - ICCP <p>Other drivers (100+)</p> <ul style="list-style-type: none"> - OPC - Modbus IP - SNMP 	<p>IoT</p> <ul style="list-style-type: none"> - LoRa - sigfox - MQTT <p>Interoperability</p> <ul style="list-style-type: none"> - OPC (DA/UA) - Web services (RESTful) - Cloud
DEPLOYMENT	<p>Flexible architectures</p> <ul style="list-style-type: none"> - Single station - Client-Server - Distributed 	<p>Mobile solutions</p> <ul style="list-style-type: none"> - Smart mobile application - HTML5 web client - Remote access 	<p>Safety and security</p> <ul style="list-style-type: none"> - Centralized management of rights with Windows Active Directory authentication - HTTPS secure connections <p>Centralized project management</p>
DATA ANALYSIS	<p>Archiving</p> <p>Local or centralized archiving</p> <p>SQLServer</p>	<p>Energy performances</p> <ul style="list-style-type: none"> - KPI - Dashboard 	<p>Reports</p> <ul style="list-style-type: none"> - Edition and generation of dynamic
CONFIGURATION	<p>Smart Generators</p> <p>Import tool for mass configuration from third party software or external configuration platform (PLC platforms, CAD software, 3rd party SCADA, proprietary software).</p>	<p>AUTOCAD®</p> <p>BACnet™</p> <p>DALIWAGO®</p> <p>LNS®</p> <p>Saia Burgess Controls</p> <p>Schneider Unity®</p>	<p>Application Explorer</p> <p>Configuration tool « All in One » for configuration and diagnostic</p> <p>Application Architect</p> <p>Modelization and project generation</p>

OPEN CONNECTIVITY SOFTWARE PLATFORM

In business for over 40 years, ARC Informatique is a forward-thinking industrial software editor with 16 offices worldwide. Using the latest technologies, ARC Informatique develops PcVue, a reliable, secure and robust operations software platform, dedicated to monitoring and control applications in markets such as Building and Campus Management, Energy, Transportation, Infrastructure, Manufacturing and other Industrial applications.

With 160+ dynamic team members, we are both physically very close and culturally compatible with our user base, thereby facilitating responsive customer care. Our ISO 9001, 14001 and 27001 certifications ensure quality, sustainability, and security in our development processes from design to delivery.



A CUSTOMER-ORIENTED APPROACH

Listen to and answer our customers
Develop and adapt our solutions via R&D
Responsive technical support.

GLOBAL PLAYER LOCAL APPROACH



16
SUBSIDIARIES

50+
VAR
WORLDWIDE

200+
LOCAL SI
PARTNERS

CONTINUOUS QUALITY IMPROVEMENT



ARC Informatique is ISO 9001,
ISO 14001 and 27001 certified





Business Solutions

A multi-services & data
integration platform
designed for your needs

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