

# Business Solutions

**PcVue®** Solutions

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

Mastering interfaces between  
#Humans  
#Systems  
#Connected things

[www.pcvuesolutions.com](http://www.pcvuesolutions.com)



## PcVue Solutions, software platform for SCADA, IoT and real-time data analytics

PcVue Solutions, edited by the company ARC Informatique, is a suite of software and hardware for monitoring and controlling various processes in several markets such as industrial process, energy management systems, treatment of water and waste, infrastructure, building and transport.

PcVue Solutions offers an open and scalable software platform that collects data from various data sources (IoT, industrial drivers, cloud...) and transforms the data into relevant information for displaying, controlling and reporting.

The user interface is made to reduce the development time for designer as well as to help the user to take the right decision quickly.

Several hundred sites worldwide are supervised by PcVue Solutions to date in 5 verticals markets.

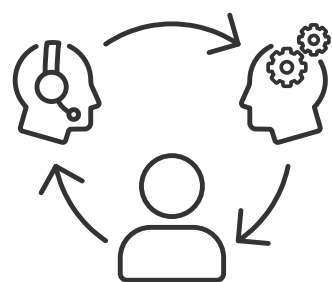
ISO 9001 and ISO 14001 certified, ARC Informatique is present worldwide and relies on a network of partners, distributors, OEMs, machines and systems integrators to offer its products and expertise.

### A global player with a local approach

15 strategic bases

50+ VAR worldwide

200+ local SI partners



### A customer-oriented approach

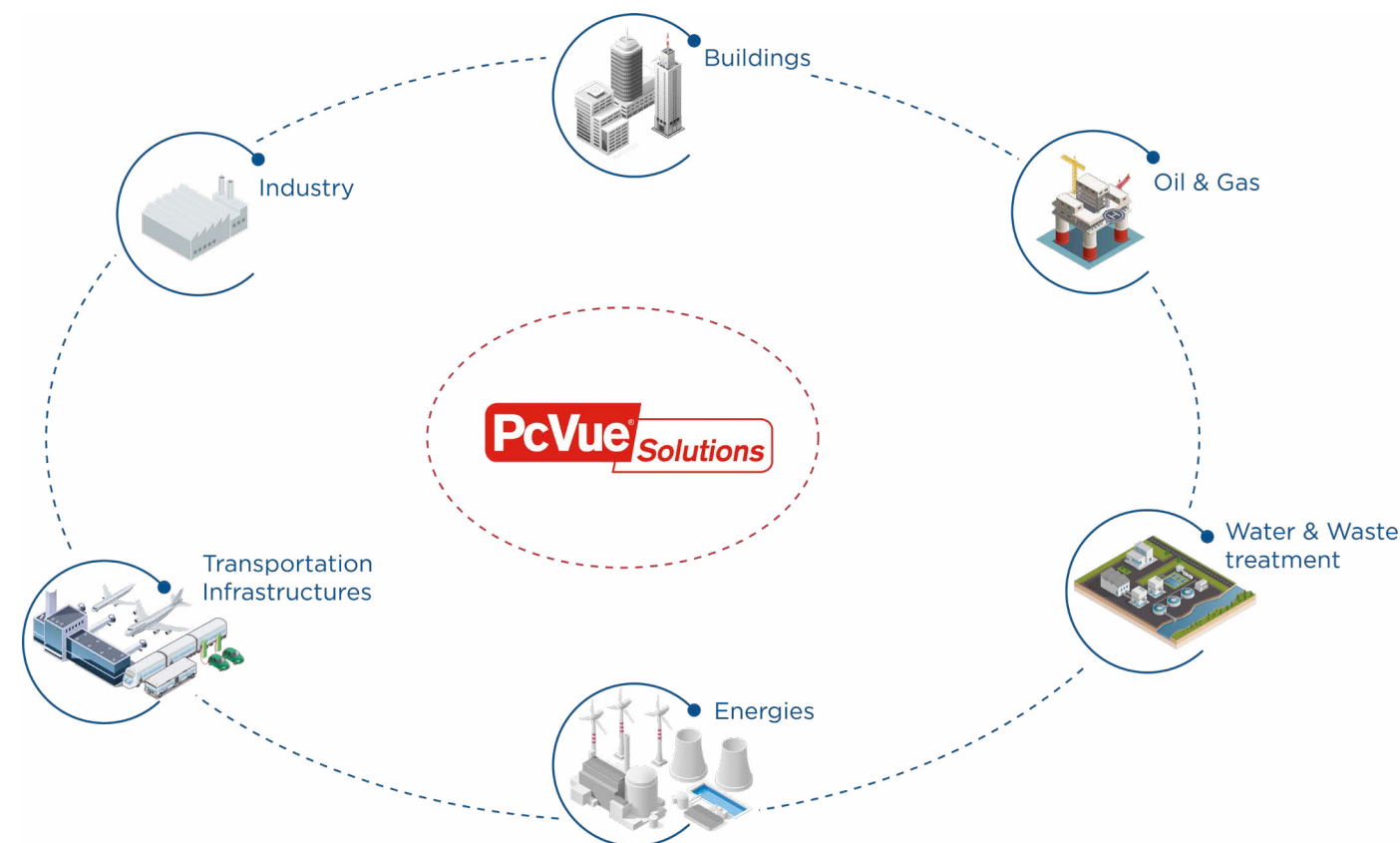
Listen to and answer our customers  
Develop and adapt our solutions via R&D  
Responsive technical support

### Continuous quality improvement

ISO 9001 & ISO 14001 certified  
Microsoft® certified partner  
OPC® foundation member  
Member of the BACnet™ Interest Group  
BACnet™ BTL B-AWS Listed  
LonMark® International Partner  
DNV KEMA certified for IEC 61850



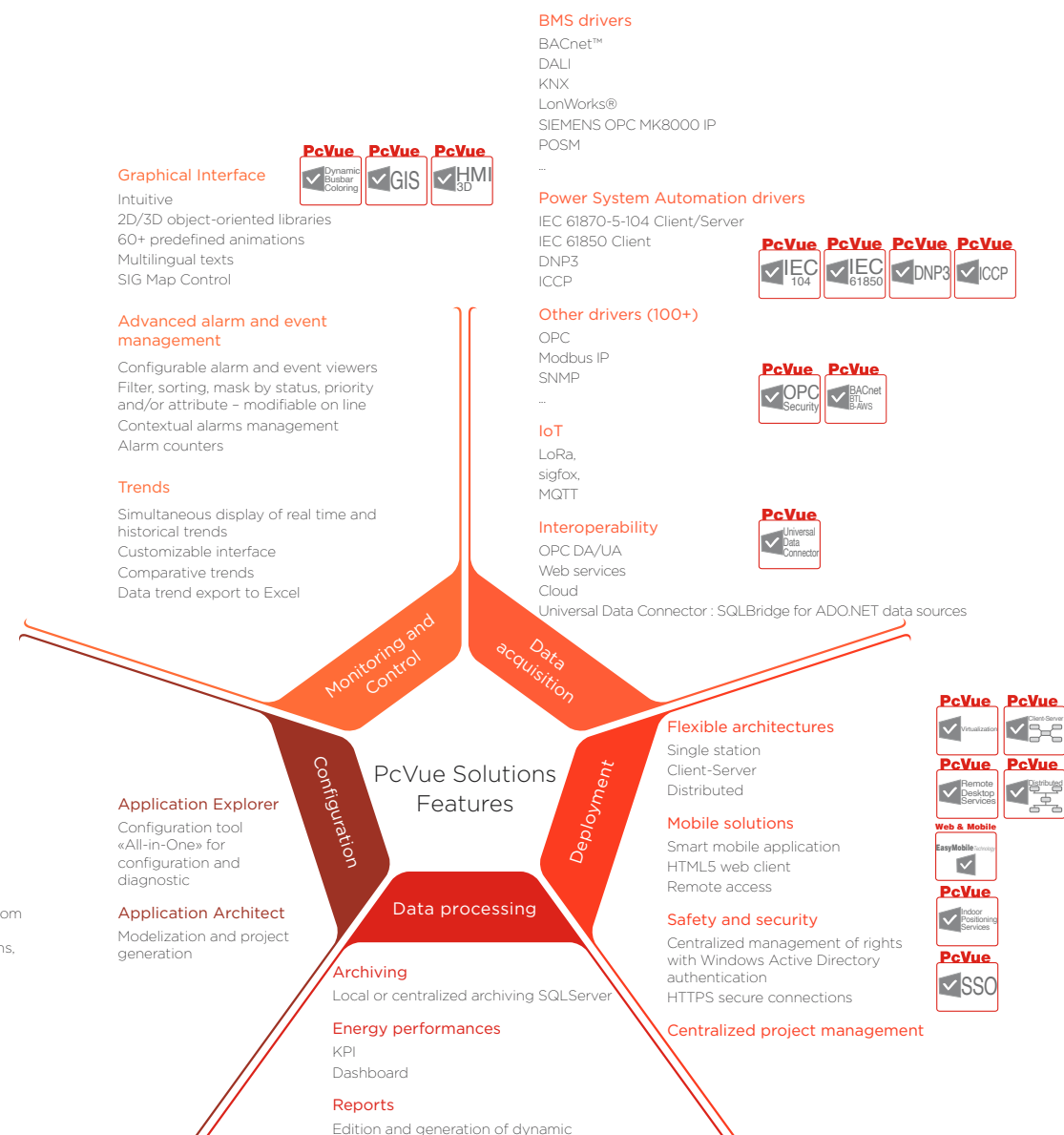
*"PcVue Solutions monitors and controls any kind of process with a single platform that combines user-friendly interface, open connectivity and built-in features adapted to each market"*



- |   |   |  |  |  |
|---|---|--|--|--|
| <ul style="list-style-type: none"> <li>Multi-source data gathering</li> <li>Industrial real-time drivers</li> <li>IoT</li> <li>Cloud</li> </ul> | <ul style="list-style-type: none"> <li>Transform</li> <li>Optimize</li> <li>Compute &amp; warn</li> </ul> | <ul style="list-style-type: none"> <li>Rich graphic libraries</li> <li>Intuitive UI</li> <li>Mobile and contextual apps</li> </ul> | <ul style="list-style-type: none"> <li>On-premise &amp; Cloud archiving</li> <li>Dashboards</li> </ul> | <ul style="list-style-type: none"> <li>SDK</li> <li>API REST</li> <li>OPC UA</li> <li>SNMP</li> <li>WebServices</li> <li>MQTT</li> </ul> |
|---|---|--|--|--|



# Technical features overview



## Some 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) - Enelpower (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: Lavazza (Italy) - 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)...

### 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) - Gomel Transneft (Biélorussie) - Total GrandPuits Depot (France)...

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



## 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
- ✓ Run an open and scalable system that adapts to changes at lower cost
- ✓ **Make the building more intuitive and interactive for users**

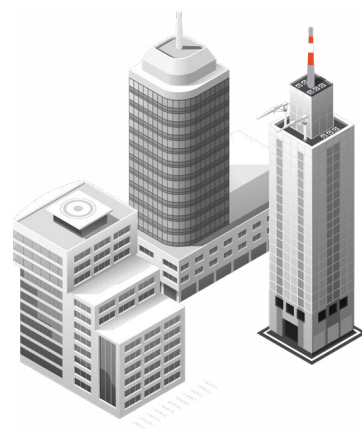
### SOLUTIONS

- ✓ 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 Airports / Paris - France  
BMS of one of the Paris airport Terminals

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

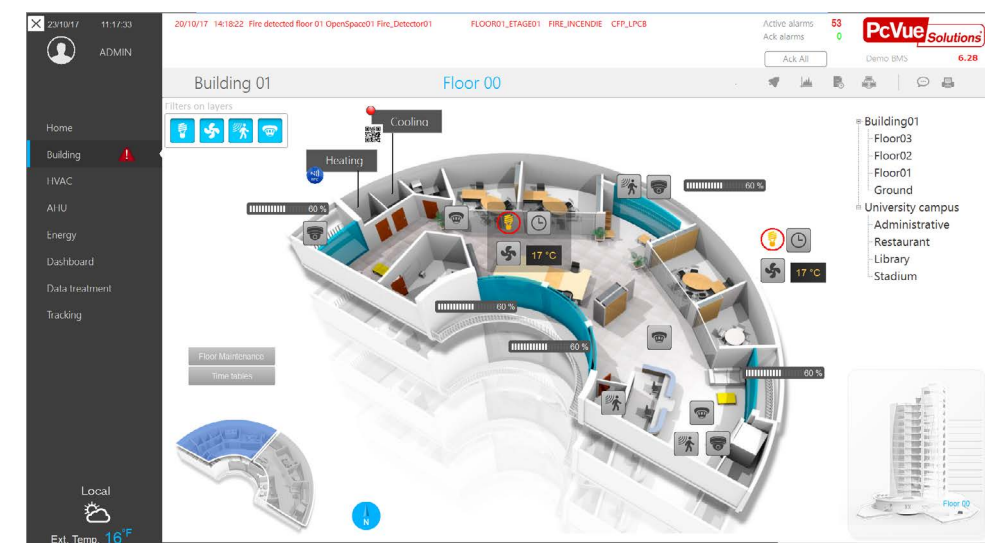


Financial Center TAIPEI 101 / Taipei - Taiwan  
Energy management system of the TAIPEI 101 tower

Hotel Ritz / Paris - France  
BMS of the hotel

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

...





# Energy production and distribution

Renewable energy, nuclear energy, heat production, substations automation

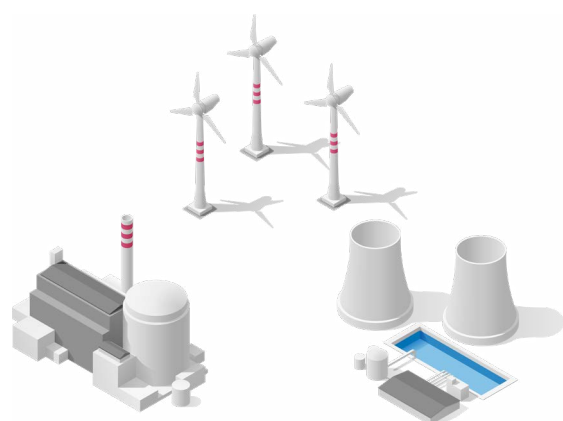
*"PcVue Solutions is fully involved in the control of energies which is a major stake of our world."*

## 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)

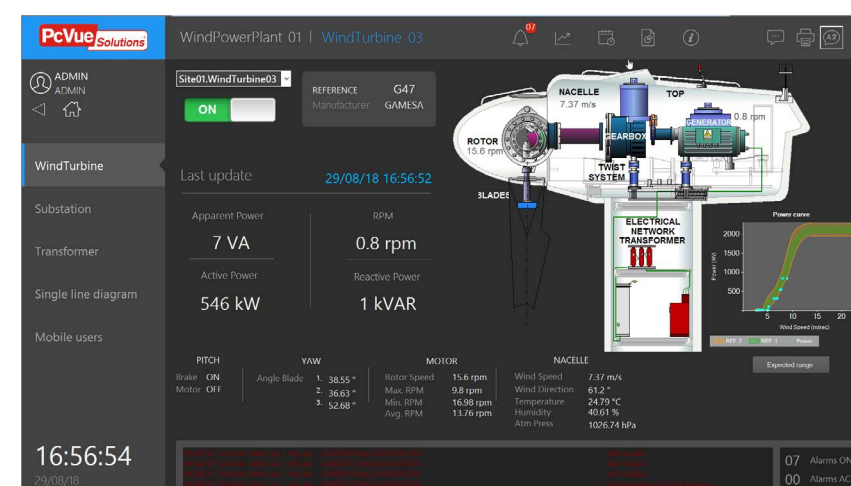
**IBERDROLA** / Worldwide

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

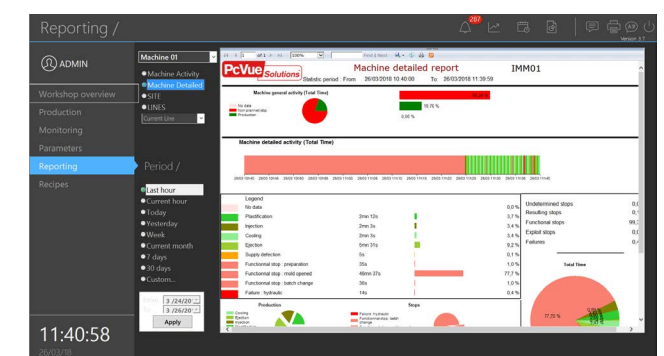
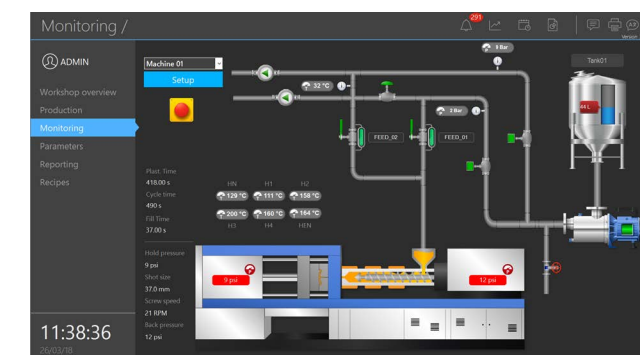
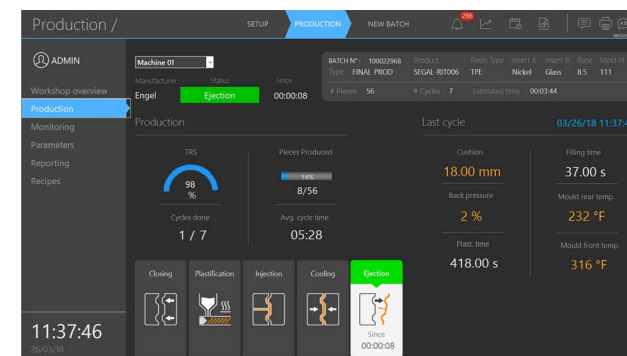
*"A unique platform connected to any system, scalable and able to adapt to change seamlessly. Ready for Industry 4.0 challenges."*

## 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



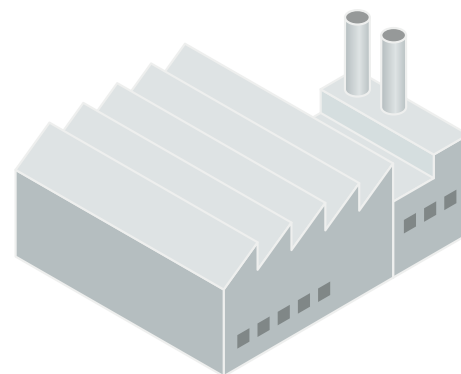
## References

**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

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

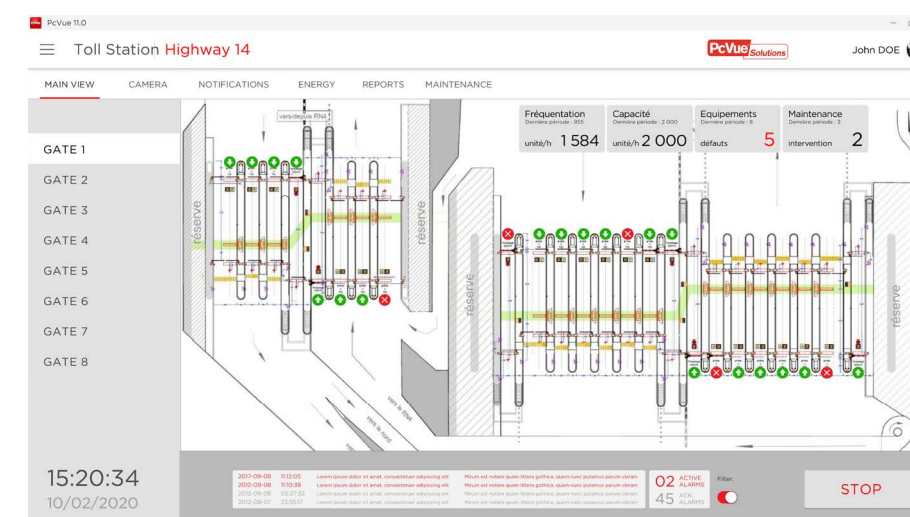


## References

**Highways** / South of France highways - A10 - A14 - Viaduc Millau

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

**Airports** / 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





# Transportation

Trains, metros, tramways, bus, electrical vehicles

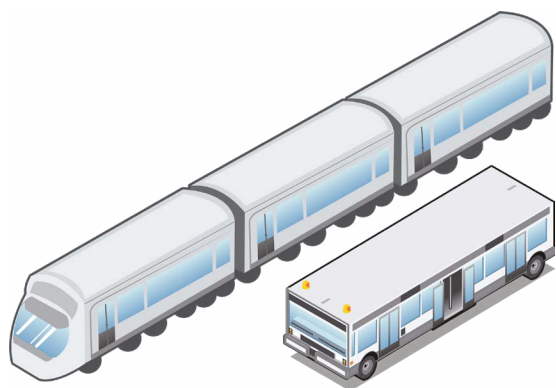
"PcVue ensures a high availability monitoring system for any kind of transport"

## 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



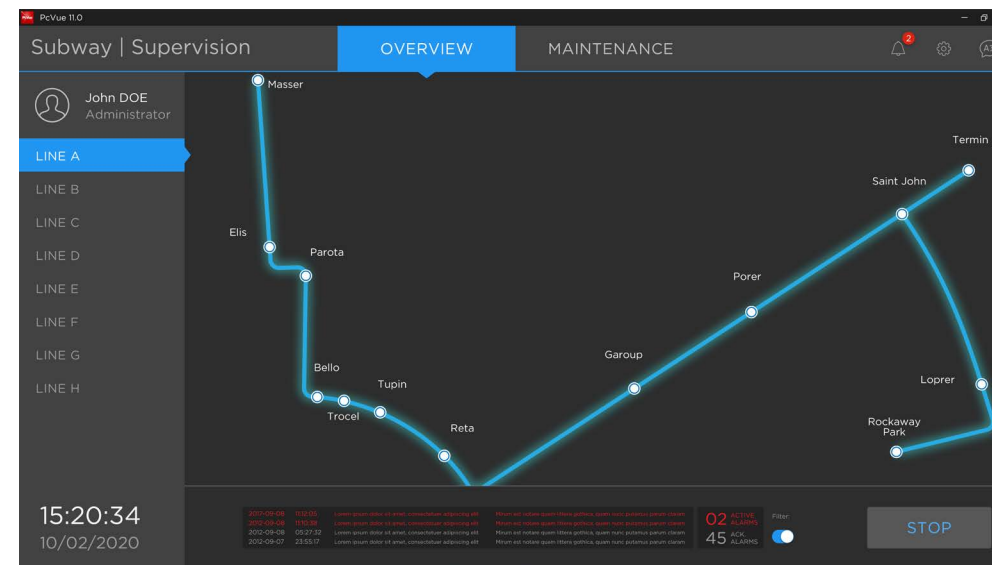
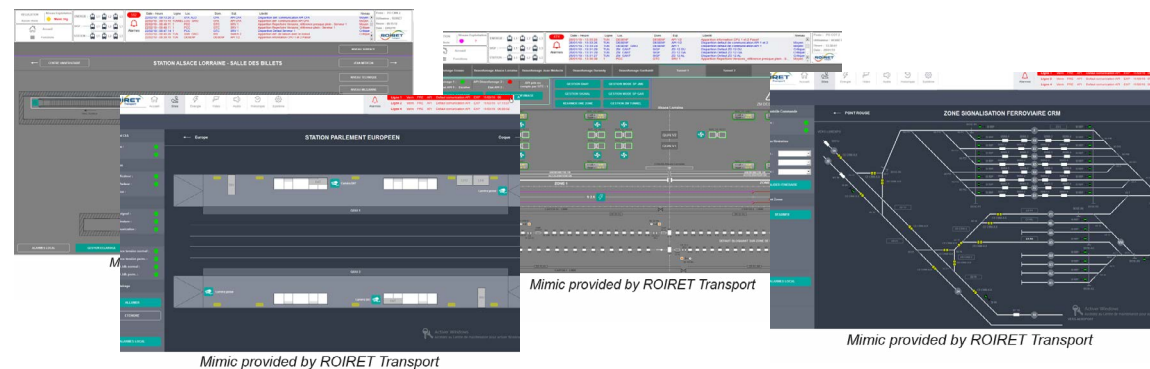
## References

Tramways / Lyon - Rabat - Grenoble - Montpellier - Avignon - Angers - Nantes

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

Bus / Tours - Metz - Lyon

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





## Sustainable environment

Water production & distribution, water & waste treatment

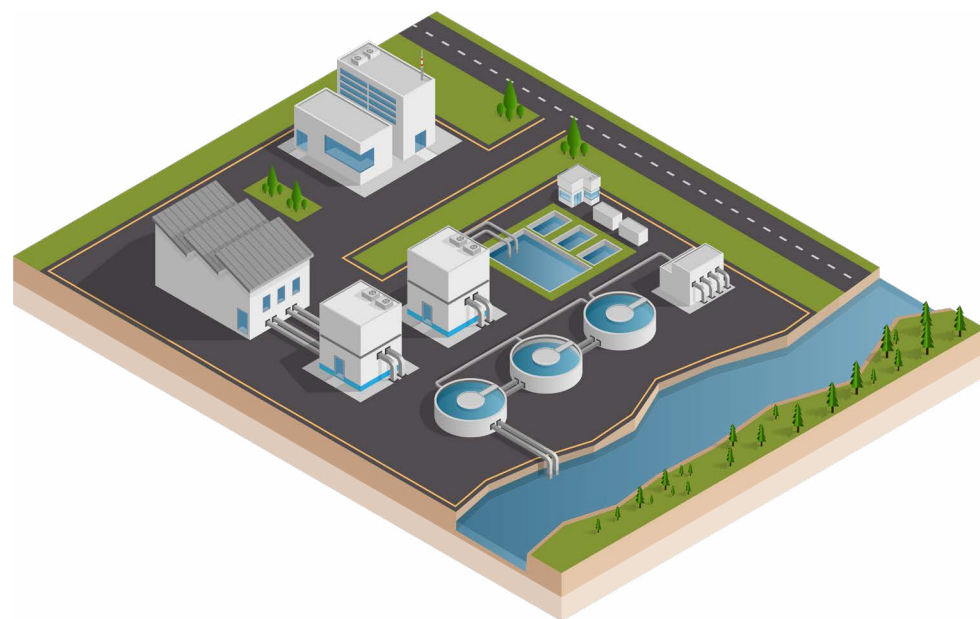
*"PcVue Solutions contributes to the Green City by optimizing processes while ensuring a high level of quality."*

### 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

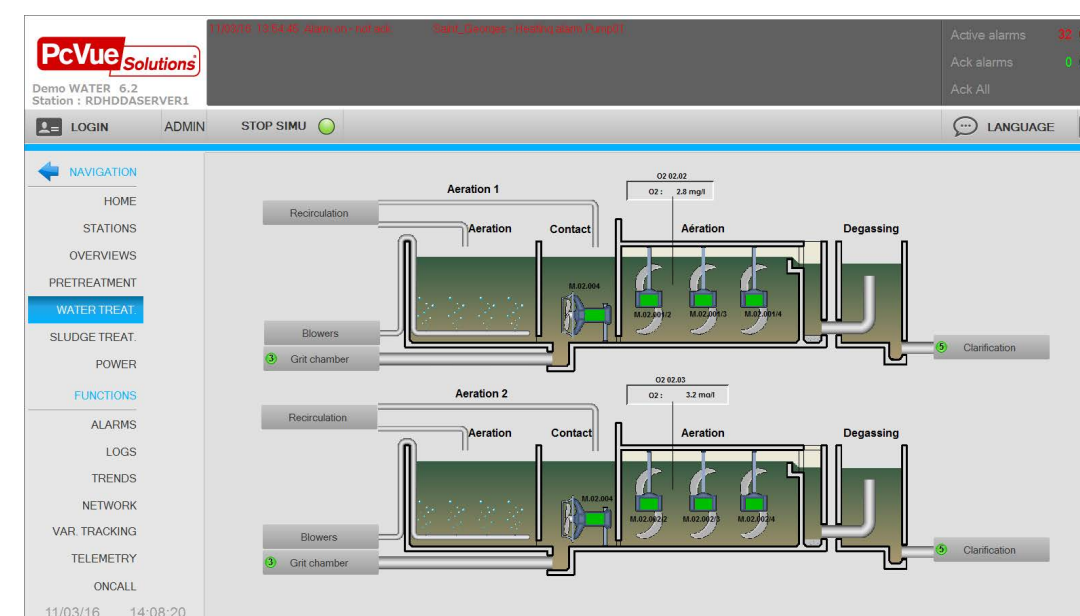
- ✓ Platform adapted to all kind of water systems
- ✓ Dedicated object libraries for Water
- ✓ Events and alarms treatment
- ✓ Powerful trends capabilities
- ✓ On-call and mobile solutions
- ✓ Data processing and reporting tools
- ✓ High availability architectures
- ✓ Telemetry solutions



## References

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

**Production and distribution of water** / 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 Solutions 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 Solutions 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

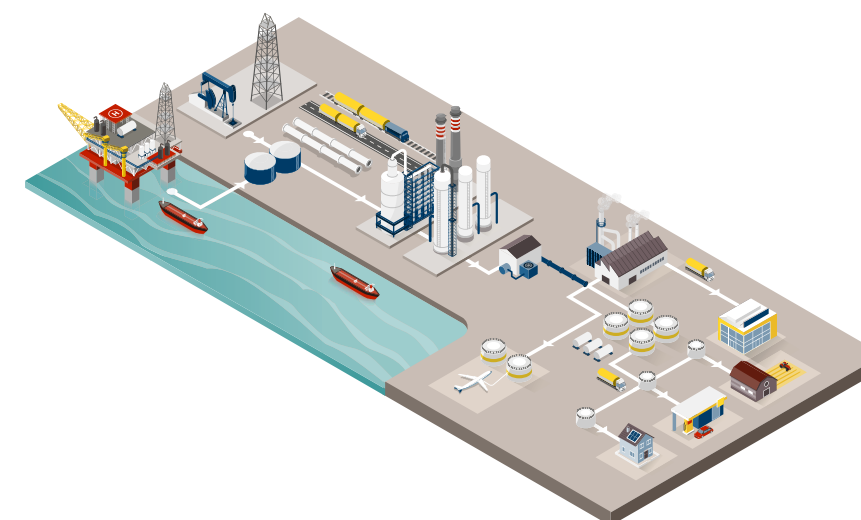
**Production** / Sonangol (Angola) – Sonatrach (Algeria) – Total Balikpapan (Indonesia) – PTT Rayong (Thailand) – Tengiz Chevroil (Kazakhstan) – Ourhoud (Algeria)...

**Pipeline & Metering** / Botas (Turkey) – Trapil (France) – Gomel Transneft (Belorussia) – Total GrandPuits Depot (France)...

**Storage** / KOC GC24 (Kuwait) – Shiraz & Bandar Imam Tank Management (Iran) – Total CLOV FPSO (Angola)...

### DISCOVER OUR STRENGTHS IN OIL & GAS

- ✓ 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





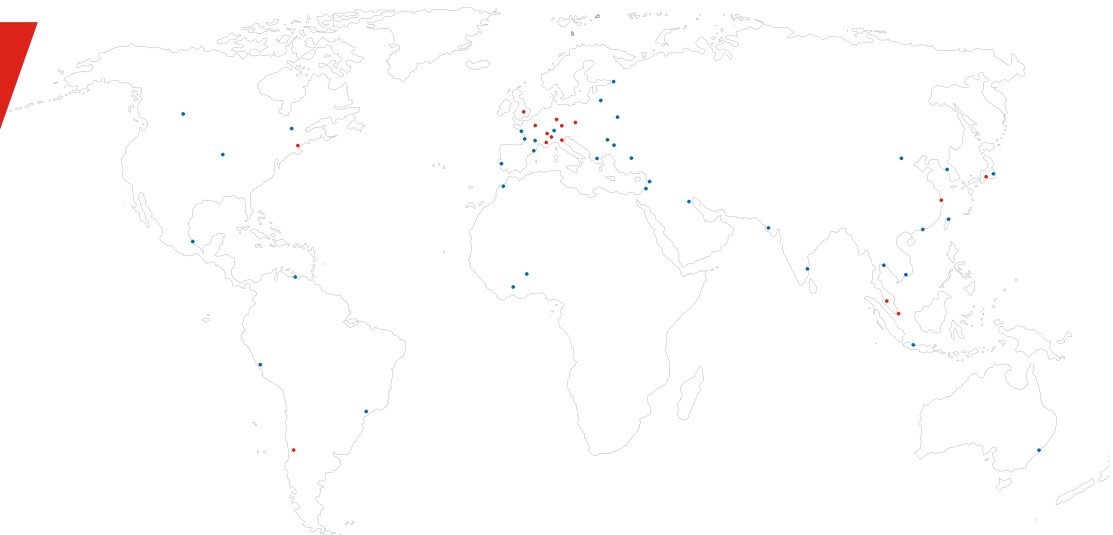
# Software platform for IoT, SCADA, BMS & real-time data analytics

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