

PLATTE RIVER POWER AUTHORITY PROJECT REPORT



S.O.T.U.: State Of The Utilities

Abjayon is witnessing the utility sector undergoing a profound transformation, driven primarily by technological advancements, regulatory shifts and the transition to renewable energy. Aging infra is making way for state-of-the-art solutions, predictive analytics and AI-driven insights. These will reshape asset management, enabling utilities to optimize operations, reduce downtime and improve service reliability.

Forward-thinking organizations are also leveraging cloud technologies to ensure sustainability, efficiency and long-term resilience in an evolving energy landscape, providing a blueprint for global businesses to adopt.

About Abjayon

Global power utility companies choose Abjayon for our deep domain expertise in Oracle Energy & Water (E&W) solutions. We are founded by former Oracle Utilities executives and we leverage our knowledge to deliver precise solutions implementation coupled with committed support.

We are a recognized leader in Oracle Meter Data Management, having implemented over 30 million smart meters, representing 25% of the global Oracle MDM footprint. We have implemented 20 Oracle CCB/CCS systems and multiple WACS/WAM implementations globally

We offer:

- End-to-end implementation of Oracle Energy and Water solutions, including CCS, CC&B, C2M, MDM, SGC, ODM, MWM, WAM, WACS, GIS integration, Outage Management Systems (Oracle NMS), Oracle Utilities Analytics, Managed Services and Digital Self-Service Portals.
- Advisory services, business process design, change management and comprehensive technology solutions.

We're HQ'ed in California, USA with delivery centers in the USA, Canada, India, Philippines and the Kingdom of Saudi Arabia.





Meet The Platte River Power Authority (PRPA)

Platte River Power Authority (PRPA) is a not-for-profit wholesale electricity provider serving four municipalities in Colorado, USA. As a generation utility, PRPA operates a diverse energy portfolio which includes thermal, gas, wind and a solar power. They have a long-term goal of transitioning away from coal and expanding their renewable energy footprint.

PRPA sought to improve operational efficiency and optimize asset life cycles. To modernize its asset management strategy, PRPA adopted Oracle Work & Asset Cloud Services (WACS) and partnered with us to ensure seamless implementation, enhanced system integration and a future-ready infrastructure aligned with their clean energy transition goals.



Project PRPA - An overview

PRPA embarked on a strategic initiative to transition from their legacy asset management system to a cloud-based Oracle WACS platform. From the very outset, their goal was to enhance scalability, improve asset reliability and also automate maintenance workflows. When we partnered with the PRPA, they sought a solution that integrates seamlessly with existing Oracle ERP systems while enabling real-time tracking of asset lifecycles.

Our role was pivotal: Beyond the foundational change, we were also able to ensure data accuracy, create custom migration tools and optimize asset management processes.

This transition positioned PRPA for a more efficient and sustainable operational framework, thus supporting their long-term clean energy and infrastructure modernization objectives.



The Legacy Issues

PRPA's previous asset management system presented multiple operational challenges:

- **Scalability constraints:** The system lacked flexibility to support PRPA's growing asset base
- **Siloed data:** Disconnected workflows posed issues to seamless data exchange across departments
- **High maintenance cost:** Legacy infrastructure required frequent updates and also manual interventions
- **Limited Integration:** Incompatibility with modern ERPs and inventory management systems created inefficiencies across the board

These limitations made it imperative for PRPA to choose a cloud-based, integrated asset management platform which could enable proactive decision-making, greater operational visibility and also bring out cost efficiencies.

Project implementation goals

PRPA's collaborated to with Abjayan to transition to Oracle WACS and there were four core objectives:

1. **Modernisation:** Migrate from legacy infrastructure to a scalable cloud-based asset management solution.
2. **Integration:** Ensure seamless connectivity between asset management, inventory and their ERP systems.
3. **Operational Efficiency:** Automate maintenance workflows, reduce downtime, gather more data and seek to improve data-driven decision-making.
4. **Sustainability:** Align the IT infra with their renewable energy transition strategy

By outlining these goals, the PRPA aimed to optimize asset lifecycle management, enhance compliance and future-proof their ops against evolving energy demands.





Implementation Process: The Abjayon Way

Abjayon's structured implementation approach to ensure a seamless transition

- **Assessment & strategy design:** We conducted an in-depth analysis of PRPA's asset management requirements and current limitations.
- **Tech selection:** Abjayon designed the Oracle WACS solution to align with the PRPA's operational & business needs
- **Partnership design:** Abjayon collaborated with PRPA's stakeholders who aided with the onboarding process, initial implementation and ERP partners.
- **Data migration & system config:** We developed and deployed custom data migration tools to ensure accurate transfer from their older asset management platform. These featured mock data migration runs, and tools that featured Loader and validation batch controls.
- **Testing & validation:** Abjayon conducted a comprehensive testing methodology which consisted of CRP1, CRP2, SIT & UAT before effecting a full-scale deployment.
- **User enablement & change management:** Abjayon provided hands-on training and documentation to ensure a smooth transition
- **AI-driven analytics:** Abjayon has provisioned for the future integration of AI to enhance predictive maintenance and enable real-time monitoring.

With this structured methodology, we enabled PRPA to fully leverage Oracle WACS, ensuring operational continuity and also future scalability.



Highlights of the solution

Abjayon's implementation delivered the transformation that the PRPA sought, aligning them on their business growth journey:

1. **End-to-end asset lifecycle management:**
From procurement to decommissioning, all asset activities are now digitally tracked
2. **Predictive maintenance:** With Impresa, the AI-driven insights now proactive identification of potential equipment failure
3. **Seamless integration:** Oracle WACS connects with their ERP, and allied systems: portfolio management, supply chain management, human capital management and the Oracle Field Services Cloud

4. **Automated workflow:** Maintenance requests, inventory checks and their service orders are managed digitally

5. **Enhanced data accuracy:** We have enabled real-time data collection to improve forecasting and ops efficiency

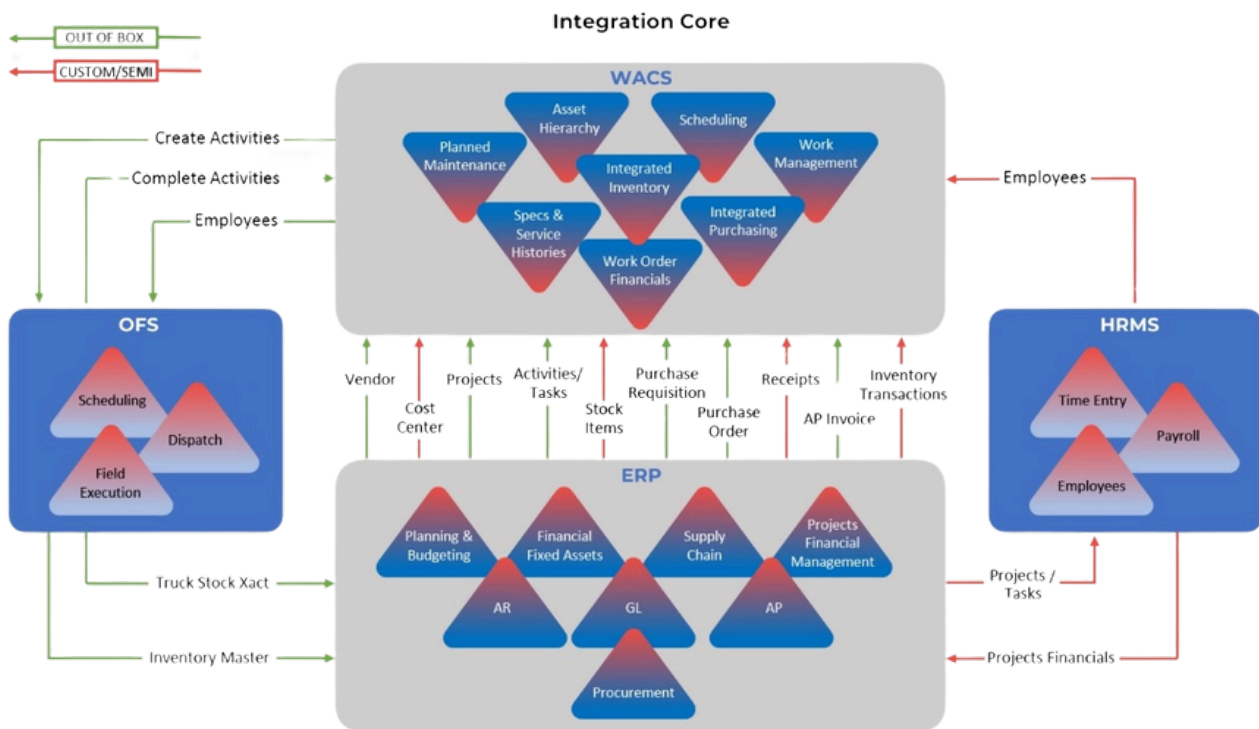
6. **Scalability & future readiness:** Now, the cloud-based architecture ensures adaptability to evolving energy needs.

7. **Strengthened connectivity channels:**
Abjayon deployed Oracle Integration Cloud (OIC) for seamless and reliable connectivity.

These capabilities have now transformed PRPA's asset management framework, reducing costs and improving reliability.



Solution Architecture

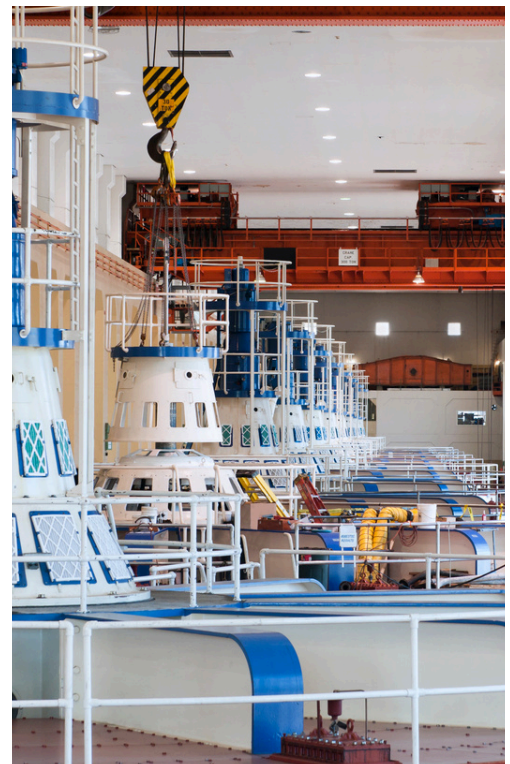


The above illustration delivers a high-level overview of Abjayan's comprehensive approach towards delivering a bespoke solution for the Platte River Power Authority.

Results Achieved via Abjayan

- Operational Efficiency:** Abjayan automated workflows that accelerated maintenance ops and improved decision-making.
- Cost savings:** Along with completing the project as per initial estimates, we are able to rationalize maintenance expenses and IT infra costs.
- Scalability & innovation:** PRPA is now equipped to handle future asset expansions seamlessly
- Improved collaboration:** PRPA's departments are able to work cohesively with unified asset data
- Data-driven decisions:** Abjayan delivered end-user decision making reports & analytics

With these benefits, Abjayan has positioned PRPA for long-term operational excellence and a seamless transition to renewable energy.





Oracle Solution Foundation



Future Outlook

As PRPA continues its shift towards a renewable-driven energy mix in this decade, Oracle WACS will play a pivotal role in:

1. **Optimising asset utilisation:** Managing the lifecycle of diverse energy assets, including solar, wind and gas infra
2. **Driving predictive maintenance:** Enhancing reliability through AI-driven insights
3. **Supporting regulatory compliance:** Automating reporting to meet evolving industry standards
4. **Enabling scalable growth:** Ensuring seamless integration of newer tech and operational expansions.

PRPA's digital transformation marks a significant step in building a resilient utility that is also future-ready.

Conclusion

Directed by Abjayon, PRPA's successful transition to Oracle WACS highlights the critical role of cloud-based solutions in modernising utilities. By replacing an older inflexible legacy system with an agile, AI-ready platform, PRPA has improved their asset reliability, operational efficiency and brought about cost-effectiveness. The PRPA is now ready to meet future challenges in the energy sector and is well positioned in its transition to renewable energy sources by 2030. This case study showcases how digital transformation empowers utilities to navigate evolving energy landscapes, ensuring long-term sustainability and growth.



The case for taking utilities to the cloud

Cloud adoption is no longer a choice but a necessity. Scalable cloud platforms are enabling utilities to optimise power distribution, manage demand fluctuations in real-time and also integrate distributed energy resources (DERs). By leveraging advanced data management and predictive analytics, utilities can minimise downtime, improve asset reliability and enhance grid stability. Cloud solutions also bolster cybersecurity, ensuring compliance with regulatory standards while safeguarding critical infrastructure. Future-ready utilities are adopting these innovations to remain agile, efficient and sustainable in an evolving energy landscape.

Abjayon matters to your business goal

Utilities worldwide face similar challenges: aging infra, high maintenance and the dire need for digital transformation. Abjayon delivers proven expertise in implementing Oracle Energy & Water solutions, ensuring seamless cloud adoption, AI-driven operational insights with Impresa and a future-ready approach. Our deep industry knowledge, coupled with AI-powered analytics makes us your ideal partner when you are seeking efficiency, innovation and sustainability.

Let Abjayon help you build a smarter, more resilient grid for the future.

Connect with us to power your transformation.



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Bring IT On

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