



Appian for Energy Capital Project Management

Making meaningful change now in missions that matter.

Major capital projects in the energy and heavy industrial sectors are becoming increasingly costly and complex, often involving timelines of years to decades, hundreds of contractors and third parties, and budgets upwards of hundreds of millions of dollars. Project planning and execution poses major challenges to organizations in aligning critical data, business processes, schedules, and budgets.

Capital projects may include infrastructure investments—buildings, bridges, power plants, warehouses, oil refineries, service stations, steam crackers—renewables projects, asset turnarounds, subsea/subsurface projects, power generation and transmission upgrades, and ongoing operations and maintenance projects.

Appian, the unified platform for change, governs and automates processes by connecting and coordinating disparate data, systems, and people into digitally accessible workflows. Here's just some of what we do:



Execution readiness.

Construction of large capital projects in the energy space is complex and costly, involving multiple teams to ensure that operations are efficient and costs are minimized.

Appian provides a single view of project readiness by orchestrating processes for permitting and approvals, notifying managers and inspectors of field activity status, ensuring the correct materials are acquired and in place, and training and assigning labor. Reporting and controls for processes can be provided in a single view while ensuring proper user visibility, permissioning, and collaboration.



Work package lifecycle.

Project managers are accountable for timely and optimized task completion; however, contractors often juggle multiple tasks with competing priorities. In addition, it can be difficult to see the whole picture when handing off steps of a work package between teams.

Appian drives schedule compliance by controlling which work packets are available for completion by contractors and automatically prioritizing work. It simultaneously provides managers with a real-time view of the status of deliverables throughout the entire process.



Contractor onboarding and offboarding.

The number of workers needed on a project can scale up and down depending on the project's status, creating a need to quickly onboard and offboard contractors while keeping costs in line.

Appian allows organizations to orchestrate onboarding processes, such as applications processing, site-specific or equipment-specific training, paperwork, system access, and security clearance, to get employees and contractors up and running faster while providing a seamless experience for everyone involved.



Regulations, governance, and reporting.

The energy sector prioritizes a safe and healthy working environment to meet ethical guidelines and comply with regulations. Appian enables companies to streamline the steps from requirements interpretation to audit preparation and evidence storage—while orchestrating key processes, controls, and tasks—to ensure audit readiness and compliance.

Appian connects data from disparate systems, including ERPs, engineering software, supply chain tools, and scheduling tools, displaying data in real time for stakeholder visibility and KPI management.

Appian uniquely addresses these challenges as the only low-code platform that seamlessly combines the key capabilities needed to get work done faster, process mining + workflow + automation, in a single tool. And the Appian platform connects virtually to any data source, no migration required. We have helped energy, heavy industrial, and construction customers manage projects end to end, promoting operational effectiveness and managing safety, risk, and compliance—all while improving customer service.

Leading energy and utilities organizations trust Appian.

- **An Italian multinational oil and gas company and one of the top Fortune global 500** companies uses Appian to create a central data source that reduces risk, increases productivity, and provides a center of digital excellence within the business. Using business process management (BPM), automated approvals processes, and event notifications, the Appian solution has increased visibility and efficiency amongst global teams. Integrating 11 data sources into one place has reduced spreadsheet use by 70%. The company also avoids accidents by using a daily updated dashboard with color alerts to detect any odd valor workers reported on the rig.
- **One of the seven “supermajor” oil companies in the world that is also a Global Fortune 500 company** uses Appian to manage their data related to the raw/ finished goods among 700 users globally. The first iteration of their Appian application covers the creation process, which involves the workflow for creating a new material and associating it to plants or sales organizations appropriately. In addition, Appian serves as an orchestration layer over SAP and Salesforce for request management at the company.
- **A Fortune 500 US-based oilfield services company** started building out their service delivery application with a focus on improving their safety initiative along with improving efficiencies. The delivery application handles the process of designing servicing jobs, mobilizing resources (people and equipment), executing the job, and then closing out the job. The goal was to replace paper and legacy systems in order to get the right people and tools for well construction projects safely and with improved service quality.

The company has experienced improved service quality through process adherence to KPIs, digitization, and automation. In addition, they now have orchestration with one unified interface, connecting people, process, data, and systems for greater visibility, agility, and control. This has resulted in minimized health, safety, and environmental incidents, and one department alone last year saw over 100% return on investment due to a reduction in the cost of process/personnel related incidents.

- **A global provider of shipping, logistics, and marine services** has implemented four modules with Appian. The Business Portfolio module enables administration of the business catalog of services provided by GAC; the Quotation module enables creation and management of quotations, including pricing from suppliers; the Job module enables management of each job’s execution for accepted quotations; and the Billing module enables the creation and management of invoicing for completed jobs.
- **A Fortune 50 midstream and downstream company** uses Appian for its corporate product quality management to ensure levels of quality and standards are met, including product specifications, quality sampling, and testing programs. The application allows employees and external users to submit and monitor testing samples at terminal sites and to see a complete audit trail. The application also ensures the right product properties, consistency, and standards are met prior to accepting or delivering products. In addition, the company uses Appian to manage pipeline integrity processes for tens of thousands of miles of pipeline and for project management of its refinery turnaround process, including production unit shutdown, equipment inspections, growth, and compliance.

For more information, visit www.appian.com/energy.