Palantir

Palantir for the Energy Crisis

The world is unpredictable. From the COVID-19 pandemic to the Russian invasion of Ukraine, to volatile energy prices, plummeting availability of raw materials, and the imminent winter season, it can be challenging to predict the impact of crisis on your business.

With Palantir Foundry, prepare for different scenarios, connect these scenarios to your operations, and navigate the unpredictable path forward with data-backed certainty.

// HOW PALANTIR CAN HELP ↘

01 Minimize Energy Usage

Stream real-time data across your operations into one single interface, empowering users to visualize energy consumption, identify energy optimization opportunities, and action within minutes, by connecting them to daily operations.

02 Optimize Energy Usage Off-Peak

More effectively manage your electricity bill, and time your production to when energy is cheapest and most available, minimizing depletion of finite national reserves.

03 Hedge Against Price Increases

Integrate data such as commodities forecasts, bill of material, and parts raw material decompositions to understand the impacts of inflation and price volatility on your COGS. Identify suppliers and parts at risk, plus renegotiation opportunities, to optimize decisions.

04 Identify Business Interruption Risk

Integrate raw material, bill of material, supplier, and country macro-economic data to surface risks of upstream business interruption and explore alternate supply sources.

05 Optimize Revenue with Limited Supply

Model current constraints and allocate limited raw materials supply to existing demand, optimize sales allocation, and focus on the right raw materials to unblock production.

06 Financial Services Exposure

Perform energy price scenario analysis for customer exposure, to proactively manage loan portfolios, identify default risk, and increase credit recovery efficiency.

07 Deploy Targeted & Sustainable Energy Subsidies

Integrate energy consumption and financial data sources to identify households and businesses in need, model a range of “what-if?” interventions, and deliver subsidies sustainably to allow for continued support.



*Notional data demonstrating a single operational interface

Install any of these offerings within weeks. // Learn more: energycrisis@palantir.com

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// IMPACT ↘

Jacobs + Palantir | Driving power savings with predictive water treatment modeling + operations

20%

annual reduction in plant-wide power utilization

"What we're trying to get at with our digital transformation is predictive operations. Now we're knowing what's going to happen before it happens... I think the potential is monstrous - millions of dollars just for us, and tens of millions for our clients."

- John Rickermann, Engineering Managing Director, Jacobs

Challenge

Global engineering firm Jacobs deployed Palantir Foundry at Agua Nueva Water Reclamation Site in Pima County, Arizona, to increase visibility into operations, accelerate the site's digital transformation, and unlock predictive operations across the plant — a proof of concept that could scale across more Jacobs sites and to their clients.

Air-gapped networks hindered management oversight, electricity costs routinely ran over budget, and operations teams were often understaffed and lacked the resources and knowledge to optimize electricity usage for power-intensive processes.

Solution

- → Streaming Infrastructure. Foundry integrated and enabled the streaming of high frequency, real-time sensor data rapidly enough to close the loop to actions, all in a secure manner.
- → Rapid translation of high frequency sensor data to human actionable alerts. Sensor data is then run through process models managed by Jacobs' data scientists to make real-time predictions, and compared against compliance levels to identify savings opportunities.
- → Operational interface. Recommendations from the central data science team are then operationalized in the form of AI-powered email notifications sent directly to operational teams, for easy review and quick action for maximum power savings.
- → Real-time feedback loop. Foundry unlocks real-time visibility and communication between operators and data scientists, establishing a positive feedback loop between two previously siloed parties.
- → Single, integrated platform. With Foundry, everyone at the plant (from data scientists to CFOs to local operators) can track operator usage, electricity consumption, operator feedback, and model error and drift, all from a single screen, across a fleet of sites and models.

Impact

- → 20% annual reduction in plant-wide power utilization
- → Jacobs plans to scale these capabilities across their entire fleet – an opportunity for tens of millions in cost savings for their customers – and sees applications across city services, transportation, environmental services, construction and more.



Agua Nueva Water Reclamation Facility // Pima County, AZ

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