

SUNTUN

Powered by the Sun, Hosted in the Cloud:

Sunrun Creates a Brighter Future with Solar-powered Plants

"Thanks to Informatica Intelligent Cloud Services and Google Cloud, we now have much more capacity for advanced analytics, giving us the insights we need to compete in the fast-changing solar power industry."

Harish Ramachandraiah Director, Engineering & Analytics, Sunrun



Goals	Solution	Results
Achieve faster, more accurate reporting and visualization of business metrics and analytics	Migrate from on-premises infrastructure to Google Cloud and use Cloud Storage and BigQuery as a cloud data lake and warehouse	Enables reporting and visualization development in weeks versus multiple quarters, delivering high-quality analytics to business users 3x faster
Accelerate cloud migration and build data pipelines faster to save time for IT and improve refresh cycles for data consumers	Use Informatica Cloud Data Integration to ingest data from dozens of source systems and build hundreds of pipelines into Google Cloud	Saves time for IT, reducing data warehouse design time by 50 percent and infrastructure building time by 75 percent
Offer business intelligence (BI) and analytics capabilities to more business users to drive adoption throughout the company	Deploy Looker, a business intelligence platform that connects directly to BigQuery, to simplify data visualization and provide self-service	Expands base of analytics power users 7x, from approximately 100 employees to 700

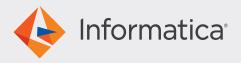
Business Requirements:

- · Simplify processes and architecture
- Reduce costs and improve scalability
- Integrate very large ERP datasets

About Sunrun

Founded in 2007, Sunrun is leading the charge to create a planet run by the sun, building a more sustainable world through making solar simple for customers.

The San Francisco-based company has approximately 4,400 employees.



Informatica Success Story: Sunrun

For a growing number of Americans, solar energy promises a more sustainable future. However, many are unsure how to go about a residential solar deployment and need assistance in navigating the fast-changing solar marketplace.

Sunrun is making it easier for consumers to install solar panels and smart batteries to lock in low energy rates through a variety of solar plans and services. With more than 285,000 customers in 22 states, Sunrun is already powering the equivalent of a mid-size city, and it installs a new system approximately every two minutes.

To support fast growth and informed decision-making, Sunrun depends on accurate, timely reporting and analytics. For years, it used a traditional, on-premises data warehouse architecture to provide information to the business; however, as the company grew, Sunrun wanted more flexibility in how it delivered data and analytics. When the business required new KPIs, dashboards, and metrics, the IT processes of building infrastructure, performing ETL, and designing an optimal data warehouse structure often took more than six months.

As the team has to supply weekly reporting for business reviews, this delay made the data less valuable when it was finally available to data scientists and business users for analysis.

Sunrun wanted to shed its legacy infrastructure and modernize while at the same time simplifying its processes and systems. Knowing that cloud solutions could deliver the speed, flexibility, scalability, and cost efficiency it was after, Sunrun began migrating to Google Cloud from its existing Oracle Data Warehouse. It selected BigQuery as its new cloud data warehouse, fed by a data lake on Google Cloud Storage. However, to keep the migration on track, Sunrun needed a fast and reliable way to ingest data from dozens of source systems into Google Cloud. Some ERP data sources contained as many as 900 million rows, making integration a challenge.

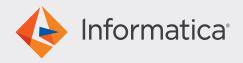
"Moving to Google Cloud and BigQuery gave us the opportunity to build data pipelines much faster and scale them easily," says Harish Ramachandraiah, Director, Engineering & Analytics at Sunrun. "But we needed a robust, cloud-based integration tool to bring data in from our source systems. Refreshing once a day was no longer often enough for some sources; for example, we wanted to load sales and marketing data on an hourly basis."



"Informatica Cloud Data Integration gives us an easy, standardized process to build new data pipelines into Google Cloud from anywhere."

Harish Ramachandraiah

Director, Engineering & Analytics, Sunrun



A faster journey to the cloud

Instead of custom-building connectors or using those supplied by application and database vendors, Sunrun chose Informatica Intelligent Cloud Services to ingest data into Google Cloud. Using Informatica Cloud Data Integration and pre-built Informatica Cloud Connectors for Salesforce, Oracle, Anaplan, and PostgreSQL, Sunrun quickly built hundreds of data pipelines that run at various frequencies from hourly to daily.

"Informatica Cloud Data Integration gives us an easy, standardized process to build new data pipelines into Google Cloud from anywhere," says Ramachandraiah. "It takes just a few minutes, and Informatica automatically handles the delta extraction for us, making it easy to bring the latest and greatest datasets into our cloud data warehouse."

Sunrun completed its migration in approximately 18 months, and its infrastructure is now 100 percent hosted on Google Cloud. To extend analytics to a wider audience and provide self-service visualization capabilities, Sunrun deployed Looker, a business intelligence platform that connects directly to BigQuery and is now part of the Google Cloud family.

"Using Informatica Cloud Data Integration to load our data, BigQuery to analyze it, and Looker to visualize and gain insights is a powerful combination," says Ramachandraiah. "It gives us shorter dev cycles, simplified operations, and faster time to market for business insights."

Delivering trusted information to the business

With its new cloud infrastructure and data warehouse, Sunrun's BI team can be much more agile in building out new dashboards and metrics as soon as the business requests them. Instead of taking multiple quarters to develop new reports, it can provide them in just a few weeks, delivering high-quality analytics to business users much faster.

"Moving to Google Cloud BigQuery and using Informatica Cloud Data Integration reduced our average data warehouse design time by 50 percent and infrastructure building time by 75 percent," says Ramachandraiah.

Sales and marketing datasets are now refreshed at the top of every hour and ERP data is refreshed multiple times a day, giving data scientists and business users a near real-time view of the business. With Looker providing easy-to-use visualization capabilities, Sunrun expanded its base of analytics power users—those who regularly leverage data to help drive the business forward—from approximately 100 employees to 700.



Inside The Solution:

- · Informatica Intelligent Cloud Services
 - Informatica Cloud Data Integration
 - Informatica Cloud Application Integration
 - Google Cloud Platform Connectors
- PowerExchange for Change Data Capture

"Using Informatica Cloud Data Integration, Google Cloud, and Looker really helps us connect the dots in our business and provide accurate reporting down to the penny," says Ramachandraiah. "We now have the level of data integration we need to view end-to-end numbers from marketing through to sales, operations, and servicing."

Data as a renewable resource

As Sunrun's data sources become more numerous and its data structures more complex, the company plans to explore Informatica solutions for data cataloging, lineage, metadata management, and governance. This includes using Informatica Cloud Application Integration to enable more real-time analytics scenarios and publish web services for Salesforce.

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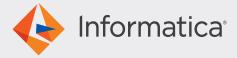
Digital transformation is changing our world. As the leader in enterprise cloud data management, we're prepared to help you intelligently lead the way. To provide you with the foresight to become more agile, realize new growth opportunities or even invent new things. We invite you to explore all that Informatica has to offer—and unleash the power of data to drive your next intelligent disruption. Not just once, but again and again.

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