

aws marketplace

GE Proficy Smart Factory MES

Reviews, tips, and advice from real users



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Product Recap



GE Proficy Smart Factory MES

GE Proficy Smart Factory MES Recap

GE Proficy Smart Factory MES is an advanced manufacturing execution system designed to optimize production processes and drive operational excellence. It provides in-depth insights and control over manufacturing activities, ensuring efficiency and reduced waste.

GE Proficy Smart Factory MES enables a seamless manufacturing experience by offering comprehensive monitoring and management capabilities. It supports decision-making with real-time data analytics, offering insights to enhance productivity, improve quality, and maintain compliance. Its adaptable architecture ensures that it can meet the evolving needs of modern factories, allowing manufacturers to streamline processes and enhance operational efficiency.

What are the key features of GE Proficy Smart Factory MES?

- **Real-Time Data Analytics:** Offers actionable insights into production performance and efficiency.
- **Workflow Management:** Streamlines and automates workflows to improve process efficiency.
- **Quality Management:** Ensures compliance with quality standards and reduces defects.
- **Compliance Tracking:** Manages regulatory compliance requirements effectively.
- **Scalability:** Adapts to growing manufacturing environments and increased production needs.

What benefits should users expect when reviewing GE Proficy Smart Factory MES?

- **Increased Efficiency:** Optimizes resource utilization and workflow processes.
- **Cost Reduction:** Minimizes wastage and reduces operational costs.
- **Enhanced Quality:** Consistently maintains high-quality standards in production.
- **Improved Compliance:** Simplifies regulatory compliance management.
- **Flexible Integration:** Easily integrates with existing systems and processes.

GE Proficy Smart Factory MES has been implemented in industries such as automotive, pharmaceuticals, and food processing. It aids these industries by enhancing production line visibility and efficiency, ensuring compliance with industry-specific regulations, and driving continuous improvement initiatives. Its adaptability allows for tailored implementations to meet specific production requirements, ensuring a fit-for-purpose approach wherever deployed.

Valuable Features

Excerpts from real customer reviews on PeerSpot:

- ✓ “The hardware of GE Proficy Smart Factory MES is very strong, and the software is very easy and useful for me.”



Yulianto Artawan

Field Services Engineer at Tetrapak

- ✓ “GE Proficy Smart Factory MES has positively impacted my organization, as the production has gone up to 33% in the financial year that they introduced the MES system and we upgraded the systems.”



Dheeraj Saicheerla

Consultant at a manufacturing company with 1,001-5,000 employees

- ✓ “GE Proficy Smart Factory MES positively impacts my organization by providing a tool for real-time production that utilizes our time in various ways, enabling us to gather all data on one page.”



Shivangi Narendra

Software Engine at a consultancy with 10,001+ employees

- ✓ “GE Proficy Smart Factory MES facilitates improved data capture, processing, and reporting across organizational levels, from supervisory to managerial to business levels.”



Verified user

Principal Consultant MES at a tech vendor with 10,001+ employees

- ✓ “With GE Proficy Smart Factory MES, it has affected daily operations by making it a lot easier for them, taking a little bit of load off of their paperwork, but also allowing the customer to really see what is going on and see where they can make some improvements.”



Robertsmith Miller

Owner at Bedrock Engineering Ltd.

- ✓ “I have seen a return on investment from using GE Proficy Smart Factory MES, as it enhanced productivity, leading to an increase in the number of parts manufactured, which resulted in good revenue generation for the business.”



Verified user

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees

What users had to say about valuable features:

“The features I appreciate most in GE Proficy Smart Factory MES are the ability to create trends when I troubleshoot during my daily work.

“I can also edit the program in GE Proficy Smart Factory MES, and before I download it to the PLC, I can test it first to ensure my program is working correctly.

“GE Proficy Smart Factory MES has been very useful in my daily work because it is user-friendly. I can also go online and change the IP address easily, which is simpler compared to other solutions.

“Troubleshooting with GE Proficy Smart Factory MES is easier than other options..”

Yulianto Artawan

Field Services Engineer at Tetrapak

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“The best features GE Proficy Smart Factory MES offers include quality control, and it also provides a feature like Plant Apps that we can integrate. In quality control, we validate whether the quality values for that specific part are correct or not, and we can set limitations, including lower limitations.

A helpful or unique aspect of GE Proficy Smart Factory MES is that it helped to read tags from the IGS or Historian service, which was a unique feature. It also created workflows and schedulers, making it even more unique.

GE Proficy Smart Factory MES has impacted my organization positively, as there was a dashboard that represented the live productivity of the plant, where the downtime of the machines and everything was shown, which was helpful in assessing the performance of the machine.

Specific outcomes show that GE Proficy Smart Factory MES helped my organization, as there was a dashboard integrated tightly with the machines installed at the factory site, which helped us know the current health of the machines..”

Verified user

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees

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“The best features GE Proficy Smart Factory MES offers include being time-efficient and providing clean software that allows me to utilize my time conveniently and in a hierarchical manner, seeing very clearly how everything is configured with ease of configuration. GE Proficy Smart Factory MES provides the capability to analyze operations related to pulp machines, tissue paper machines, converting lines, and paper machine lines, allowing us to analyze trends effectively and accurately calculate start times, end times, and events.

“GE Proficy Smart Factory MES positively impacts my organization by providing a tool for real-time production that utilizes our time in various ways, enabling us to gather all data on one page. This prompts organizational interest in future projects because we learn from shop floor to end reporting and analysis of data.

“In terms of specific metrics, I can mention cost reduction since getting all data on one page allows us to need fewer resources, contributing to the company's fast growth and improving efficiency and monitoring..”

Shivangi Narendra

Software Engine at a consultancy with 10,001+ employees

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“The best features GE Proficy Smart Factory MES offers include the integration to Microsoft, enterprisewide development, and the IoT where I can get that information relatively easily without having to put expensive instruments out there.

“GE Proficy Smart Factory MES has positively impacted my organization by helping clients a lot. I am a system integrator.

“GE Proficy Smart Factory MES helps solve pains such as reporting for mandated government agencies that require their reporting, and traceability with batching and with the quality on the side doing that. It has made the paper trail more electronic and more accessible.

“With GE Proficy Smart Factory MES, it has affected daily operations by making it a lot easier for them. It takes a little bit of load off of their paperwork, but it also allows the customer to really see what is going on and see where they can make some improvements..”

Robertsmith Miller

Owner at Bedrock Engineering Ltd.

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“The best features of GE Proficy Smart Factory MES include its various modules enabling full-fledged MES implementation, offering production, maintenance, quality, and beyond. It integrates with PLC SCADAs using OPCs, and Prophecy Historian is completely integrated for time series data collection. These features facilitate evaluation of order efficiencies, OEE, yield, and other KPIs. Integration with ERP at the ISA-95 top layer and multi-method integration with external systems is possible, enhancing user experience with thick and thin clients for daily operations using a Microsoft SQL database.

In day-to-day operations, the most valuable features are production and quality, which handle data related to gross and net production. They automatically capture downtimes and provide a comprehensive list of highlighted drill-down reasons for downtime, significantly contributing to OEE as a primary KPI. Additionally, the Historian feature collects necessary time series data in line with MES requirements, allowing for advanced reporting and alarm-triggering for operators and supervisors or executing commands back to PLC SCADAs, enhancing decision-making processes.

GE Proficy Smart Factory MES facilitates improved data capture, processing, and reporting across organizational levels, from supervisory to managerial to business levels. The reporting structure allows business stakeholders to drill down to specific plants and production lines, monitoring efficiencies in real time and identifying underperforming areas. This effective real-time monitoring provides insights into production performance, offering opportunities for internal brainstorming and action planning to improve KPIs..”

Verified user

Principal Consultant MES at a tech vendor with 10,001+ employees

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“The best features offered by GE Proficy Smart Factory MES include real-time view or real-time analysis of the production that is going on in the plant. There are no issues between the quality or the production people that are involved or the users that are involved in the execution. There are no issues in communicating where the production execution is going towards. We get the real-time analysis of what is going on in the plant.

“The real-time analysis from GE Proficy Smart Factory MES helps my team significantly. When the unit comes in, it goes through the production and then it reaches quality. We really need to have no delays between this production or quality people or any users that may need the data. It is a one-stop solution for all the users to get the required data in the plant through reporting or anything.

“GE Proficy Smart Factory MES has positively impacted my organization, as the production has gone up to 33% in the financial year that they introduced the MES system and we upgraded the systems. The productivity increased, the downtime decreased, and the yield that was produced had good values because of implementing this MES.

“We measure the productivity increase with specific KPIs within GE Proficy Smart Factory MES by looking into the production data and having key performance indicators as well. When we dig down into the issues of why we have less productivity, we analyze the root cause since we have the data from the MES system. We analyze the data and take the corresponding measures to decrease the errors that happened previously. The productivity increases automatically..”

Dheeraj Saicheerla

[Read full review](#) 

Consultant at a manufacturing company with 1,001-5,000 employees

Other Solutions Considered

“I have not previously used a different solution before GE Proficy Smart Factory MES, as I have been utilizing GE Proficy Smart Factory MES since the start of my career..”

Verified user

Principal Consultant MES at a tech vendor with 10,001+ employees

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“Whether I previously used a different solution depends on the client, but the last two clients I had that were big projects already had iFIX.

“Before choosing GE Proficy Smart Factory MES, my clients did not evaluate other options or use a previous product..”

Robertsmith Miller

Owner at Bedrock Engineering Ltd.

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“I previously worked with OSI PI and Plant Information, and transitioned to GE Proficy Smart Factory MES because I wanted to explore more within MES.

“I did not evaluate other options before choosing GE Proficy Smart Factory MES. I was using OSI PI and found GE Proficy Smart Factory MES to be a much better tool for understanding event frames, user access, roles in the plant, and how the line and unit work..”

Shivangi Narendra

Software Engine at a consultancy with 10,001+ employees

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ROI

Real user quotes about their ROI:

“I have seen a return on investment from using GE Proficy Smart Factory MES, as it enhanced productivity, leading to an increase in the number of parts manufactured, which resulted in good revenue generation for the business.

The productivity increased by at least twenty-five percent with GE Proficy Smart Factory MES, and that is the minimum percentage I can share..”

Verified user

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees

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Use Case

“I typically work with many types of PLC, but I focus more on GE Proficy Smart Factory MES, so I can connect to GFanuc PLC and then upgrade to RX3i from LM90.

“I usually take the alarm trigger from the sensor and then gather data from the sensor regarding pressure values and temperature values. I create trends using GE Proficy Smart Factory MES so I can identify the root cause of my issues. This has been very helpful for me..”

Yulianto Artawan

Field Services Engineer at Tetrapak

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“My main use case for GE Proficy Smart Factory MES is for discrete manufacturing, as it is used for routings and BOM.

I use GE Proficy Smart Factory MES for routings or BOM in my day-to-day work, where for every part, routings were created in SAP, and that used to flow to Proficy MES. The routing contains the operation steps and the sub-steps that are involved in manufacturing that particular part.

Regarding my main use case, GE Proficy Smart Factory MES also connects to tags. For example, in my case, I was reading the raising temperature tag value, and it was created and mapped..”

Verified user

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees

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“My main use case for GE Proficy Smart Factory MES is for recipes and batch executions.

“When using GE Proficy Smart Factory MES for recipes and batch executions, it depends on the customer process, but in reality, they get the orders, they get the scheduling, and then it goes into the manufacturing system where we can push it around depending on what needs to be done first or if it's a small order or big order.

“Additionally, I do quality checks with GE Proficy Smart Factory MES. They go back and take labs and then enter them in for each batch..”

Robertsmith Miller

Owner at Bedrock Engineering Ltd.

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“GE Proficy Smart Factory MES is primarily used for MES implementation and support across a variety of industries, including mining and consumer goods. The platform is utilized within the ISA-95 architecture for consumer goods clients, implementing modules such as production, maintenance, and quality. It is used to execute process and planned orders on the shop floor, capturing data on downtime, production, and quality against specific orders, and calculating plant KPIs based on this data. The platform also supports reporting structured data stored in the Prophecy database, using interfaces like Prophecy displays for operators or supervisors. Integration with plant systems such as PLC SCADAs and ERP at the top layer is also a crucial element of my use case.

Integrating GE Proficy Smart Factory MES with plant systems like PLCs and ERP systems impacts daily operations positively, offering smooth execution. Although challenges with SCADA communications do arise, these fall under standard IT support and are managed and rectified efficiently. For recurring issues, problem methodologies such as RCA are employed to identify root causes and implement corrective actions. Overall, integration has been beneficial with no major negative impact..”

Verified user

Principal Consultant MES at a tech vendor with 10,001+ employees

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“My main use case for GE Proficy Smart Factory MES includes downtime, overall equipment effectiveness, quality, and reporting.

“I use GE Proficy Smart Factory MES for downtime tracking by managing a few events. We have several downtime events that are preconfigured in the system so that we can see the downtime metrics of a particular machine.

“Once we have the downtime metrics from GE Proficy Smart Factory MES, my team typically uses them to calculate the OEE of the machine, and then we use the data to reduce the downtime of the particular machine and use it effectively for productivity.

“In terms of my main use cases with GE Proficy Smart Factory MES, we are mainly using it for unit operations to scan the raw material. These are the inbuilt views in the inbuilt tabs in the web client or in the Proficy applications client. We get to know all the information at a single point in time. We will be knowing everything that is happening on the plant in the application itself..”

Dheeraj Saicheerla

Consultant at a manufacturing company with 1,001-5,000 employees

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“My main use case for GE Proficy Smart Factory MES is to analyze, monitor, track, and maintain downtime and power consumption. I use GE Proficy Smart Factory MES on a regular basis as a Plant Application administrator and Plant Client administrator for my day-to-day health checkup of production level reports, including how tags flow from one end to another.

“For downtime monitoring, when production level is down, I have to monitor the exact start time and end time to understand if the power consumption indicates that production was slow or stopped. We receive a report documenting what exactly might be happening at that time. For power consumption, when batches start running, the tag frequency increases, prompting me to check the trigger tag from the PlantApp model, along with the configured model to see how it works. We also check production and downtime events from the PlantApp model.

“Regarding my main use case, I face challenges when the Plant Apps models don't match the tag values with OPC Quick Client, which requires me to check and trigger with Historian Proficy, enabling or disabling and checking the data flow to ensure labels are printing correctly from GE Proficy Smart Factory MES. Specifically, in a Plant Application where I check from the stretch wrapper or the unit's placement in the configured models to obtain the source address and verify in the OPC Quick Client..”

Shivangi Narendra

Software Engine at a consultancy with 10,001+ employees

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Customer Service and Support

“Customer support for GE Proficy Smart Factory MES gives quick results sometimes, but there are delays at times, so I would appreciate quicker responses from their end..”

Shivangi Narendra

Software Engine at a consultancy with 10,001+ employees

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“The customer support experience for GE Proficy Smart Factory MES is pretty good. They will get in touch within one or two working days and help resolve the issue..”

Dheeraj Saicheerla

Consultant at a manufacturing company with 1,001-5,000 employees

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“The customer support for GE Proficy Smart Factory MES is good.

I would rate the customer support of GE Proficy Smart Factory MES an eight on a scale of one to ten..”

Verified user

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees

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“The customer support for GE Proficy Smart Factory MES is good.

“I would rate the customer support for GE Proficy Smart Factory MES an eight on a scale of one to ten..”

Robertsmith Miller

Owner at Bedrock Engineering Ltd.

[Read full review](#) 

Other Advice

“My advice to others looking into using GE Proficy Smart Factory MES is to do less customization in the actual product. I would rate this product an eight out of ten..”

Verified user

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees

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“My advice for others looking into using GE Proficy Smart Factory MES is that it is best for the process industries, mostly cosmetics or any batch manufacturing industries that are on a huge scale. I do not recommend it to medium-scale industries.

“I have additional thoughts about GE Proficy Smart Factory MES before we wrap up. It is quite a stable application. After you implement it, there are no issues working on it. Even if you have some issues, we have the vendor support, and the issues will be resolved as soon as possible. It is lovely working with GE as an application. It is a good application to use. I would rate this product a 9 out of 10..”

Dheeraj Saicheerla

Consultant at a manufacturing company with 1,001-5,000 employees

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“Regarding GE Proficy Smart Factory MES's AI capabilities, I think its governance and security is good, but that just depends on how you implement it onto the OT network. The tools are there, and I hope everybody uses them to keep it secure.

“Regarding the accuracy and reliability of GE Proficy Smart Factory MES's AI

capabilities, right now, my customers have not implemented the AI part, but I have delved into it myself, and I think it is going to turn out pretty well.

“My advice for others looking into using GE Proficy Smart Factory MES is to just know your entire scope of what you want to do to allow you to budget for your capital project. I would rate this product a nine on a scale of one to ten..”

Robertsmith Miller

Owner at Bedrock Engineering Ltd.

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“GE Proficy Smart Factory MES is deployed in public cloud in my organization.

“I received the license for GE Proficy Smart Factory MES from my company. Every year, my company releases notes to renew my license.

“GE Proficy Smart Factory MES is what we use for simple programming, and I can access it very easily.

“I would recommend GE Proficy Smart Factory MES to others if they want simple software with a simple application that is easy to understand.

“As long as the program is password-protected and cannot be uploaded by everyone, I think GE Proficy Smart Factory MES is secure.

“Everything appears to be already perfect in GE Proficy Smart Factory MES.

“GE Proficy Smart Factory MES is better for my organization.

“GE Proficy Smart Factory MES is very accurate for output.

“The hardware of GE Proficy Smart Factory MES is very strong, and the software is very easy and useful for me. I would give this product a rating of nine out of ten..”

Yulianto Artawan

Field Services Engineer at Tetrapak

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Top Industries

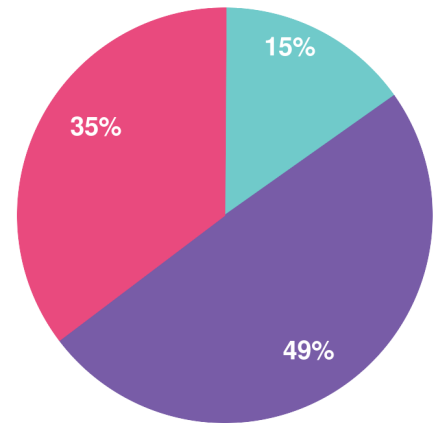
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Company Size

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Large Enterprise Midsized Enterprise Small Business

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PeerSpot

244 5th Avenue, Suite R-230 • New York, NY 10001

reports@peerspot.com

+1 646.328.1944