

# More Efficiency for Plants and Grids



## Managing Technical Assets Efficiently

### Managing Technical Assets

Maximizing Return on Assets

Achieving High Asset  
Performance

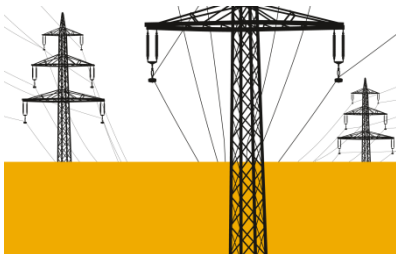
SAP Innovations

Sound asset management is the cornerstone of the utilities industry. Yet aging infrastructure combined with increased regulation, environmental pressures, and the push for renewable energy puts the infrastructure under enormous pressure. It's critical to manage and operate existing and new asset portfolios efficiently.

Providing and operating a reliable and safe energy infrastructure is mission critical for utilities companies. You need to optimize asset performance and find the right balance between operation and maintenance of existing assets and the development of new infrastructure.

Existing infrastructure has to be maintained and modernized to meet expected performance requirements and comply with more stringent environmental regulations. At the same time, new power generation resources need to be considered and developed to extend network capacities, adopting new renewable and distributed generation and supply models.

As a result, traditional asset management activities are evolving into a comprehensive, standards-driven management approach. Guidelines such as BSI's Publicly Available Specification (PAS55) help you apply structured, best practices to your asset management capabilities. These disciplines are designed for optimal production, uptime, reliability, and overall asset performance.



## Maximizing Return on Assets

Managing Technical Assets

**Maximizing Return on Assets**

Achieving High Asset  
Performance

SAP Innovations

Enhanced asset management needs to cut across the entire asset lifecycle if it is going to support more informed decision making and minimize operational disruption. Best-run companies streamline processes, integrate them with core business operations, and enable transparency across the enterprise.

An effective asset management strategy combines the needs of the production and maintenance organizations and delivers efficiency improvements while maximizing returns on assets.

By adopting best practices such as PAS55, the international benchmark for asset management, utilities companies can optimize physical asset management by increasing both production and equipment availability.

Of course the ability to monitor and analyze key performance indicators is vital. Utilities companies can maximize their returns on assets through close collaboration with core business activities such as finance, human resources, risk, and compliance. A holistic view of performance, risks, and expenditures throughout an asset's lifecycle provides the insight you need to drive overall equipment effectiveness.

In addition, by employing continuous and proactive operational risk management practices you can better support decision making and minimize disruptions and asset-related risks.



## Achieving Superior Asset Performance

Managing Technical Assets

Maximizing Return on Assets

### Achieving High Asset Performance

SAP Innovations

# 17%

Higher return on assets where maintenance systems are fully integrated with inventory management, purchasing, reliability management and finance

Source: SAP Performance Benchmarking

A single, real-time view of plant and core business data enables more efficient and sustainable management of the entire asset lifecycle. Powerful analytics and real-time visibility into performance helps drive asset utilization, reduce costs, and facilitate cleaner, safer practices.

Significant benefits can be gained from superior asset management. Operational excellence and overall financial performance are closely coupled with rigorous execution.

End-to-end support for asset portfolio management, capital project management, and asset information management, enables the return on assets to be optimized with increased performance and efficiency and reduced costs.

By building a single, real-time view of plant and enterprise resource planning data, utilities companies can start to improve asset utilization, business planning, and maintenance execution.

Integrating, automating, and unifying all asset-related data, business processes, and reporting enables a holistic management approach. The real value comes from leveraging integrated asset management data to deliver the right information to the right people at the right time so sound operational decisions can be made.

In addition, by aligning stakeholder objectives across the enterprise and supporting integrated operational risk management, utilities companies can operate in a cleaner, safer way and still perform at optimal levels.



## SAP Innovations

Managing Technical Assets

Maximizing Return on Assets

Achieving High Asset  
Performance

### SAP Innovations

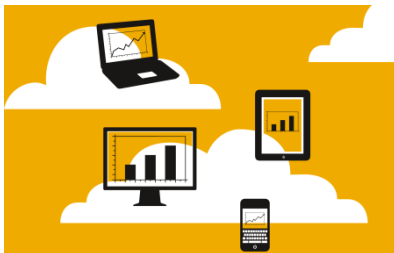
New breakthrough technologies paired with ubiquitous asset-related data offer an unprecedented opportunity. Best-run companies can make faster decisions, work more efficiently in the field, and create flexible asset management networks.

Database and technology solutions, including the SAP HANA platform, support the ability to make fast decisions based on accurate data and scheduling.

Mobile solutions empower maintenance technicians to work more safely, productively, and independently in the field, whether installing new equipment or maintaining, inspecting, and repairing existing assets.

Analytics solutions provide visibility into the operation of physical assets, allowing you to take proactive steps to avoid interruptions and downtime, and effectively forecast and optimize asset utilization.

Cloud-based solutions support fast, low-risk deployments, providing the ability to create flexible asset management networks for service procurement and spare parts management.



## Optimize Assets

### Optimize Assets

#### Optimize Portfolios

#### Solve Issues More Quickly

#### Boost Use and Performance

#### Managing Risks Proactively

Maintaining efficient asset use throughout the entire asset lifecycle allows utilities companies to optimize assets, helping minimize disruptions and support fast decision making.



#### Optimize Portfolios

During challenging economic periods, it's more important than ever to make informed asset-related decisions to keep return on asset investments (ROA) high.



#### Solve Issues More Quickly

Increase uptime and react more quickly to process disruption with greater visibility into your operations and asset performance.



#### Boost Use and Performance

Forward-thinking companies can integrate, automate, and unify all asset-related data, business processes, and analytics to enable holistic operations and maintenance.

## Optimize Portfolios

Optimize Assets

**Optimize Portfolios**

Solve Issues More Quickly

Boost Use and Performance

Managing Risks Proactively

# 61%

Higher return where equipment effectiveness is maximized, breakdown minimized, and cost reduced through predictive and preventive maintenance

Source: SAP Performance Benchmarking

Making informed asset-related decisions that keep returns on assets high provides critical competitive advantages. With integrated portfolio, project, and asset information management capabilities you can assess opportunities, prioritize projects, and optimize execution and operational readiness.



To maximize the value of your assets, you need to keep your plant or facility running at peak performance. Your assets need to perform like never before.

With the right tools and insights, you can plan, build, and commission assets. Despite the fluctuating market conditions and risks, you can set the right priorities and manage the complex interactions between the many players involved in capital projects.

In addition, you can prevent budget overruns, delayed start-ups, and inefficient data handovers by contractors. Once assets have been commissioned, you can put a stop to inefficient maintenance, repair, and operations management.

With increased visibility and control through integrated business planning, prioritization, and governance, you can optimize the return on asset investment for your asset-intensive operation. This results in the ability to increase uptime, output, and asset reliability while decreasing maintenance costs and extending asset longevity.

## Solve Issues More Quickly

Optimize Assets

Optimize Portfolios

**Solve Issues More Quickly**

Boost Use and Performance

Managing Risks Proactively

# 62%

Lower unplanned outages where sophisticated reliability-based maintenance procedures and tools are utilized to increase asset availability

Source: SAP Performance Benchmarking

Greater visibility into operations and asset performance empowers utilities companies to be more efficient by increasing uptime, narrowing process variability, better controlling maintenance costs, reacting more quickly to process upsets, and satisfying customers more consistently.



As the delivery of gas, water, and electricity to customers becomes more challenging, top-floor executives need higher visibility and control into shop-floor events and processes.

For instance, the vice president of manufacturing needs to be able to assess the real-time status of plant-floor operations in multiple locations and drill into operational details at a particular plant for more informed decision making and the ability to take immediate action.

With access to real-time information about production rates and yields, asset utilization, quality and safety metrics, and energy consumption and emission, you can minimize unplanned downtime or outages and reduce accident frequency.

With insights like these, best-run utilities manage operations more effectively and improve asset utilization and plant performance. They can achieve higher product consistency and quality, lower costs and increase profits, deliver goods on time more reliably, and satisfy your customers more consistently.



## Boost Use and Performance

Optimize Assets

Optimize Portfolios

Solve Issues More Quickly

**Boost Use and Performance**

Managing Risks Proactively

# 18%

Lower unplanned outages for organizations adopting a preventive/predictive maintenance approach, compared to those adopting a reactive approach

Source: SAP Performance Benchmarking

Asset uptime is vital when production is the lifeblood of your business. Best-run utilities companies integrate, automate, and unify all asset-related data, business processes, and analytics to enable holistic operations and maintenance.

Maximizing asset reliability and return on investment requires a proactive approach to maintenance. This demands effective management and execution by qualified professionals who have access to everything required to complete their work at their fingertips.

Best-run companies enable holistic asset operations and maintenance management by integrating, automating, and unifying all maintenance-related data, processes, and reporting.

They increase uptime by establishing and enforcing proactive maintenance. At the same time, they reduce costs by facilitating supplier collaboration, enforcing contracts with suppliers, and minimizing repairs and replacements. They further improve maintenance efficiency and effectiveness by documenting plans, best practices, task lists, and bills of materials.



## Managing Risks Proactively

Optimize Assets

Optimize Portfolios

Solve Issues More Quickly

Boost Use and Performance

### Managing Risks Proactively

# 69%

Lower accident frequency where maintenance planning takes into account skill, materials and tools required, and specific job instructions

Source: SAP Performance Benchmarking

The path to sustainable growth is not smooth. Numerous expected and unexpected operational risks can trip even forward-thinking companies. Proactively identifying operational risks and designing controls to reduce probability and severity of unexpected events are key to overcoming this challenge.



Safety and operational excellence go hand-in-hand.

Best-run organizations expect the unexpected. They learn from unexpected incidents and leverage effective operational risk management systems to gain competitive advantage.

Excellence in risk management practices is driven by proactive and thorough risk assessment, designing operational controls, communication of safety work practices, frequent testing, and monitoring of operational controls.

It is also critical to underpin business processes with effective process automation, integration of people and data sources, and performance-oriented analytics to help stakeholders understand trends, patterns, and improvement opportunities.

With increasing adoption of Big Data, analytics, and mobile technologies, companies have the opportunity to monitor even the smallest of root causes of failure and understand cause-effect relationships so that they can proactively mitigate operational risks.

# More Efficiency for Plants and Grids Value Map

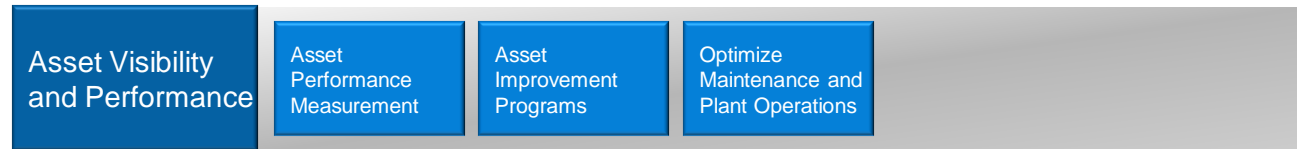
## SAP Solutions

SAP solutions address key requirements of utilities to operate plants and grids efficiently and safely.

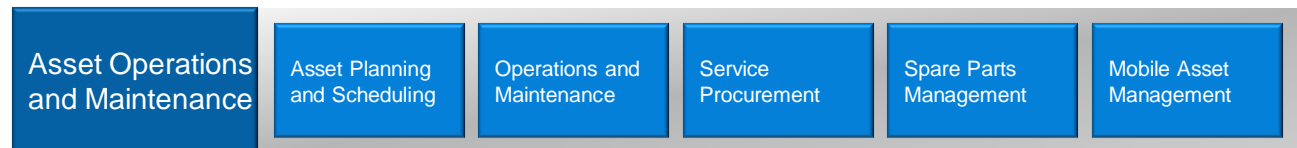
Asset Portfolio and Commissioning



Asset Visibility and Performance



Asset Operations and Maintenance



Operational Risk Management



# Asset Portfolio and Commissioning

SAP Solutions

## Asset Portfolio and Commissioning

Asset Visibility and Performance

Asset Operations and Maintenance

Operational Risk Management

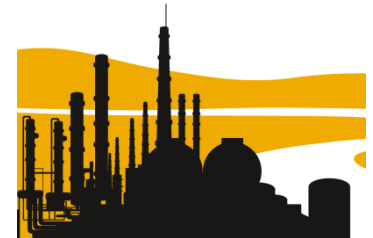
# 14%

Higher data accuracy where data warehouse architecture is continuously monitored/ allows new data integration

Source: SAP Performance Benchmarking

## Optimize the asset portfolio.

For an optimized asset investment portfolio, you need to approve, direct, and administer the maintenance capital budget by executing and monitoring the scope, costs, and timelines of projects, capturing asset data and continuously assessing the quality of information throughout the full asset lifecycle.



### Asset Portfolio Management

Align capital spending with corporate strategies, and evaluate the risks of alternatives.

### Capital Project Management

Create detailed project plans and budgets, and monitor and report on financial and project status.

### Prepare and Deploy Asset Information

Collaborate with engineering and procurement contactors, as well as original equipment manufacturers, to ease data transfers of asset and maintenance information throughout the new build or overhaul process.

### Monitor and Maintain Asset Information

Assess, validate, and continuously monitor the quality of asset master data, and ensure integrity and quality when managing changes to the master data for all assets and subasset systems. Archive data based on regulatory requirements or delete as required.

## Asset Visibility and Performance

SAP Solutions

Asset Portfolio and  
Commissioning

**Asset Visibility and  
Performance**

Asset Operations and  
Maintenance

Operational Risk  
Management

# 31%

Lower annual service and  
maintenance cost where  
maintenance issues are  
resolved at the root level

Source: SAP Performance  
Benchmarking

### Gain greater operations and asset performance visibility.

By integrating plant-floor systems with core enterprise applications, you benefit from greater visibility into, and control over, your entire manufacturing operations.



Asset  
Performance  
Measurement

Quickly and accurately deliver up-to-date data on asset performance for more informed decisions.

Asset  
Improvement  
Programs

Review and implement strategic imperatives to improve asset availability and reduce maintenance costs.

Optimize  
Maintenance and  
Plant Operations

Leverage strategic analysis of asset performance to optimize use.

## Asset Operations and Maintenance

SAP Solutions

Asset Portfolio and  
Commissioning

Asset Visibility and  
Performance

**Asset Operations and  
Maintenance**

Operational Risk  
Management

# 13%

Higher asset productivity where  
maintenance is streamlined  
through automated monitoring  
and notification

Source: SAP Performance  
Benchmarking

### Maximize uptime at lowest cost.

Benefit from holistic asset operations and maintenance management by integrating, automating, and unifying all maintenance-related data, processes, and reporting.



#### Asset Planning and Scheduling

Plan and schedule maintenance task planning, cost control, and budgeting for greater efficiencies.

#### Operations and Maintenance

Maximize optimal equipment reliability, mobile app usage, and worker safety while reducing repairs to ensure the greatest returns on asset investments.

#### Service Procurement

Standardize and automate service procurement requirements and generate sustainable savings by streamlining procure-to-pay processes.

#### Spare Parts Management

Automate tracking and analysis of parts inventory monitoring, replenishment, and forecasting data to reduce inventory costs.

#### Mobile Asset Management

Mobilize maintenance processes to improve technician productivity, asset uptime, and safety.

# Operational Risk Management

SAP Solutions

Asset Portfolio and  
Commissioning

Asset Visibility and  
Performance

Asset Operations and  
Maintenance

## Operational Risk Management

# 71%

Lower recordable accident  
frequency where safety and  
environmental systems inte-  
grate with asset management

Source: SAP Performance  
Benchmarking

## Proactively reduce risks for safe operations and continuity.

Excellence in operational risk management is a core factor in achieving more sustainable operations. Implementing risk assessments, effective operational controls, and promoting a culture of safety with clear communication on safe work practices proactively reduces risks and supports continuous improvement.



### Incident Management

Promote a culture of safety by allowing everyone to communicate safety issues and facilitate a timely response by subject matter experts.

### EHS Risk Assessment

Facilitate comprehensive assessment of all environment, health, and safety (EHS) risks, and manage controls to reduce risks.

### Management of Change

Simplify and improve safety of plant change requests and mitigate associated risks by automating involvement of people, and ensuring consistent execution via templates and rules.

### Maintenance Worker Safety Management

Integrate environment, health, and safety information into plant maintenance tasks to automate work order safety plans and ensure safety measures.

### Maintenance Safe Work Permit System

Provide maintenance workers with easy-to-read instructions on their job cards, protecting them from a variety of hazards on the job.



# SAP Innovations

## SAP Innovations

Applications

SAP HANA

Mobile

Analytics

Cloud

# 78%

Of utilities recognize enterprise mobility and 65% recognize analytics as highly important yet have subaverage adoption

Source: SAP Performance Benchmarking

New breakthrough technologies paired with ubiquitous asset-related data offer unprecedented opportunity. Best-run companies make faster decisions, work more efficiently in the field, gain more visibility into asset operations, and create flexible asset management networks.



## SAP HANA

Gain the ability to handle vast amounts of data and scheduling information to drive faster decisions.

## Mobile

Unwire employees to work more safely, productively, and independently in the field, whether installing new equipment or maintaining, inspecting, and repairing existing assets.

## Analytics

Achieve relevant insight into the operation of physical assets to help you take proactive steps to avoid interruptions and downtime and to effectively forecast asset utilization.

## Cloud

Maintain flexible asset management networks for enhanced service procurement and spare parts management.





## SAP Business Suite Powered by SAP HANA

SAP Innovations

### Applications

SAP HANA

Mobile

Analytics

Cloud

The SAP Business Suite application powered by SAP HANA enables utilities companies to optimize the utilization and uptime for technical assets.



### Maximized Asset Utilization and Uptime

Use the SAP HANA platform to avoid the error-prone process of preselection of maintenance plans.

By leveraging the stored procedure functionality of SAP HANA, the preselection of due maintenance plans is automated, which speeds up the process significantly. Manual adjustments are no longer required, which also reduces the cost of managing maintenance work.

This means you can schedule existing maintenance plans within a specific time frame, which helps ensure only maintenance plans that are due are processed, in a much faster response time, and in a user-friendly and easy-to-use transaction. In addition, SAP HANA provides virtual data-modeling functions for real-time analytics and accelerates mass transaction.

## SAP HANA

SAP Innovations

Applications

**SAP HANA**

Mobile

Analytics

Cloud

# 8 out of 10

Decision makers think access to the right information at the right time is critical to their business.

Source: SAP Performance Benchmarking

Ensuring high uptime, safety, and availability of assets is a fundamental business requirement. To avoid system breakdown and disruptions, assets require continuous maintenance scheduling. Best-run companies eliminate downtime and make faster decisions based on accurate, up-to-date scheduling.



### Asset Operations and Maintenance

#### Enhanced Maintenance Scheduling

Schedule all existing maintenance plans within a specific time frame and automatically preselect due maintenance plans with the SAP HANA application cloud. This helps ensure that only maintenance plans that are due are processed and delivers the result in a much faster response time and in a user-friendly and easy-to-use transaction. At the same time, you increase asset utilization, reduce unplanned asset downtime, and optimize maintenance operations with up-to-date scheduling information.

### Incident Management

#### Predictive Safety

The SAP HANA platform empowers you to analyze and understand the likelihood of incidents arising based on event and pattern analyses of data. By combining data from operational systems such as maintenance, engineering, and real-time data sources, your organization can become more proactive in safety management.

# Mobile

SAP Innovations

Applications

SAP HANA

**Mobile**

Analytics

Cloud

# 40%

Higher employee productivity where mobile access is provided to employees across all levels

Source: SAP Performance Benchmarking

Empower maintenance technicians to work more safely, productively, and independently in the field, whether installing new equipment or maintaining, inspecting, and repairing existing assets with comprehensive access to back-end enterprise data.



## Asset Operations and Maintenance

### Mobile Work Order Management

Manage work orders and notifications anytime, anywhere, on a wide variety of mobile devices. Access to all relevant information increases safety and productivity in the plant and in the field, reduces unplanned downtime and maintenance backlogs, and extends and improves asset life and reliability.

### Mobile Rounds

Conduct inspections and capture measurement readings in the field, eliminating paperwork and redundant data entry in the office. Create maintenance notifications on the spot to prevent production stoppages and delays.

## Operational Risk Management

### Mobile Platform

Support mobile devices through a proven, scalable platform that includes built-in support for enterprise-class security. This makes it easier to deploy, support, and manage multiple mobile devices and apps, allowing you to future-proof your mobile strategy.

### Environment, Health, and Safety

Promote a culture of safety by helping your people collect and access operational safety issues and deliver pervasive access to safety information in a compelling way. Augment virtual geographic information system and 3D environments with contextual safety information.



# Analytics

SAP Innovations

Applications

SAP HANA

Mobile

**Analytics**

Cloud

# 27%

Higher operating margin where organizations enable a higher number of employees to receive analytical information from BI tools

Source: SAP Performance Benchmarking

As assets are constructed, operated, and maintained, large volumes of data are collected in various fragmented systems. By employing a powerful analysis application to convert the disparate data into operational intelligence, utilities organizations can optimize asset usage for business advantage.



Asset Portfolio and Commissioning

### Asset Portfolio Management

Analyze operational data for visibility into probable technical and operational risks, and use it as the basis to support investment decisions. Such analysis helps to prioritize portfolio items and projects to more effectively use available resources and improve the return on asset investment.

Asset Visibility and Performance

### Asset Performance Measurement

As assets are operated, monitoring is essential to mitigate the risk of underutilization. Integrated analytical applications can provide holistic visibility to performance of assets and enable benchmarking of key indices to drive optimal use.

Asset Operations and Maintenance

### Operations and Maintenance

Use statistical analysis of historical information to accurately predict its possible future performance and use as the basis of proactive planning and maintenance.

Operational Risk Management

### Operational risk management

Collect and analyze data about leading indicators such as risk assessments, observations, and near misses to proactively address and prioritize risk reduction efforts. Analyze incidents, related root causes, and corrective actions to sustain continuous improvement of safety performance.



## Cloud

SAP Innovations

Applications

SAP HANA

Mobile

Analytics

**Cloud**

# 85%

Of organizations believe cloud can deliver major operational improvements and business process innovation.

Source: SAP Performance Benchmarking

Fast and flexible deployment of both critical and complementary solutions is the essential aspect of on demand. Best-run utilities companies deploy cloud solutions to create flexible asset management networks for service procurement and spare parts management.



Asset Operations  
and Maintenance

### Service Procurement

Releasing the maintenance order triggers the cloud-based procurement solution from Ariba, an SAP company, to create service requests with the use of supplier relationship management or enterprise resource planning materials management applications. Ariba Network is an end-to-end business process collaboration solution with supplier catalog integration, purchase order, and invoice management functionalities.

Ariba Network.

### Spare Parts Management

Spare parts requests as part of maintenance orders can also be processed with the Ariba Network to help ensure efficient spare parts management by automating the process in the cloud.

## Best-Run Customers

### Best-Run Customers

2200+ utilities in 70 countries run SAP software.

Ausgrid

970+ utilities use SAP BusinessObjects solutions.

EdeA

660+ utilities manage greater than 3 billion utilities bills.

Edf Energie

78% of the top 50 utilities (Forbes 2000) run SAP software.

EnBW

Indraprastha Power  
Generation

Why SAP?



## Customer Co-Innovation

### Best-Run Customers

Ausgrid

EdeA

Edf Energie

EnBW

Indraprastha Power  
Generation

Why SAP?

The SAP Community Network is an online hub that supports customers, partners, consultants, experts, and SAP employees. Companies can learn and benefit from the expertise of other community members as they develop their own products.

### Advisory Customer Council for Utilities

This group consists of 20 international and market-leading utility companies that work with SAP to define future requirements for the SAP for Utilities solution portfolio.



### Co-Innovation Partners

SAP invites successful and innovative companies to participate in its premier customer network. Members come together to collaborate and transform ideas into business improvements.



Best-Run Customers

Ausgrid

EdeA

Edf Energie

EnBW

Indraprastha Power  
Generation

Why SAP?

**Ausgrid supplies electricity to more than 3 million people through Australia’s largest distribution network. Over the next few years, the utility will invest billions of dollars in its infrastructure – making it smarter, more reliable, and ready for future technologies.**

Ausgrid needed a best-practice modeling application to plan its future capital expenditure projects with greater efficiency, flexibility, and accuracy. By implementing the SAP Business Planning and Consolidation application, the utility is increasing the accuracy and reliability of capital forecasts and lowering the cost of forecast audits, scenario analysis, and regulatory compliance.

**Key Benefits**

- Clearer links between strategic objectives and investment plans
- Improved transparency and credibility of CAPEX forecasts for industry regulator and stakeholders
- Ability to use robust financial modeling techniques such as "S curves"

“SAP Business Planning and Consolidation enables us to better plan our project portfolio on an ongoing basis – offsetting increases in scope and cost for one project by making reductions in others.”

Matt Cooper, Manager, Investment Strategy, Ausgrid

**-80%**  
CAPEX calculation  
and modeling error  
rate

**-60%**  
Time needed to  
enter a CAPEX  
project in to the  
system

**-90%**  
Time needed to  
calculate net-  
present cost per  
area







## Best-Run Customers

Ausgrid

**EdeA**

Edf Energie

EnBW

Indraprastha Power  
Generation

Why SAP?

**EdeA is a joint venture of Essent RWE and DSM in the Netherlands. The utility based firm operates a cogeneration plant and several boiler plants, as well as other utility plants, to power 52 chemical manufacturing plants.**

As a highly innovative and environmentally responsible power company, EdeA relies on the SAP ERP application to help streamline plant operations. By implementing the latest SAP enhancement package for SAP ERP, the company continues to innovate by improving shift reporting, handover processes, and incident resolution.

### Key Benefits

- Improve efficiency and safety of daily plant operations by replacing multiple shift reporting systems while leveraging data and functionality in the deployed SAP ERP application
- Eliminate highly manual and repetitive shift reporting processes
- Integrate plant operations with a single solution vendor

“The reporting functionality in SAP ERP has enabled us to be more proactive in addressing outstanding issues and improving overall plant operations.”

W. G. J. (Willy) Maesen, IT Manager, EdeA

# Clearer

Complete plant production, distribution, and maintenance information available

# Simpler

Intuitive user interfaces

# Better

Operational visibility across shifts, facilities, and physical assets





## Best-Run Customers

Ausgrid

EdeA

**Edf Energie**

EnBW

Indraprastha Power  
Generation

Why SAP?

### **Producing one-fifth of the United Kingdom's electricity, EDF Energy provides electricity and gas to 5.5 million residential and commercial customers in the United Kingdom.**

When the company built a new power station in West Burton, United Kingdom, it needed a single integrated system for monitoring and reporting on assets. The SAP Enterprise Asset Management (SAP EAM) solution supports predictive maintenance, monitoring, reporting, and other cost-effective strategies.

#### **Key Benefits**

- Integration of key functionalities, reducing need of multiple systems for maintenance management, document management, and incident or near-hit reporting
- Clear stewardship of asset data with effective monitoring and review
- Faster month-end reporting with a five-day savings

# Clearer

View of assets

# Simpler

Integration of key functionalities

# Better

Monitoring and reporting

“The SAP Enterprise Asset Management solution provides the rich functionality we need for staying on top of system monitoring and reporting requirements so we can spend more time better serving our customers.”

Darren Ramshaw, Maintenance Manager, EDF Energy





Best-Run Customers

Ausgrid

EdeA

Edf Energie

**EnBW**

Indraprastha Power  
Generation

Why SAP?

**EnBW, as a leading utility in Germany, collaborated with SAP to develop an asset management solution that meets the needs of large electric utilities, enabling the company to manage the health of its physical assets, standardize maintenance practices across power plants, and reduce IT costs.**

**Key Benefits**

- Improve maintenance planning, resulting in lower maintenance budgets
- Increase effectiveness of the maintenance process, leading to less reliance on external service providers
- Achieved end-to-end process integration and “one version of truth”

**5%–30%**

Reduction in  
maintenance budgets

**1%–3%**

Reduction in power  
plant shutdown time

**≤\$60,000**

Lower spend on  
external services per  
plant

“The biggest benefit is integration among departments and between our company and other companies. We now have a common base of data and this has been the biggest improvement that I have seen.”

Carlo Doni, Local Information Manager, EnBW Kraftwerke AG





Best-Run Customers

Ausgrid

EdeA

Edf Energie

EnBW

**Indraprastha Power  
Generation**

Why SAP?

**Indraprastha Power Generation Company Limited (IPGCL) is a government-owned utility that generates and sells electricity to distribution companies in the state of Delhi, India.**

IPGCL implemented the SAP ERP application to provide much-needed integration for procurement and maintenance operations along with business tools for effective decision making.

**Key Benefits**

- Automated creation of request for quotes from purchase requisitions, eliminating manual data entry by personnel in contracts and materials (C&M) department
- Gained complete visibility into asset maintenance history and spare parts movement
- Reduced effort required to manage preventive maintenance schedules

**50%**

Reduction of procurement lead time

**5%–10%**

Adherence to preventive maintenance schedule

From  
**80%–90%**

Improved accuracy of cost distribution of maintenance work

“SAP ERP has helped us integrate and streamline operations across our plants, leading to increased visibility into data and better informed decision making. It has also optimized resources and reduced paperwork.”

A.K. Handa, Deputy General Manager (ERP and IT), Indraprastha Power Generation Company Limited



## Why SAP?

### Best-Run Customers

Ausgrid

EdeA

Edf Energie

EnBW

Indraprastha Power  
Generation

### Why SAP?

SAP software for enterprise asset management empowers companies to obtain real-time visibility into asset performance, manage the asset lifecycle efficiently, and apply powerful analytics to optimize asset usage and cut costs.

### Tightly Integrated Solutions

SAP offers the most comprehensive portfolio of solutions for enterprise asset management to sup

### Leveraging Key Breakthrough Innovations

The SAP solution portfolio is based on an innovative technology foundation, which combines solutions for database and technology, enterprise mobility, analytics, and cloud-based deployment options to enable efficient and sustainable management of physical assets.

### Proven Time to Value in Large Scale Implementations

The world's leading companies across all industries continue to rely on SAP to enable them to maximize return on assets, improve equipment effectiveness, and manage risk.



# Find Out More About How Your Organization Can Become Best-Run

## Benchmark Your Performance

Position your organization for dominance in this new economy with the business performance benchmarking program from SAP – available free to SAP customers and select prospects. The SAP benchmarking program has helped more than 3,000 organizations assess their strengths, uncover areas for improvement, and identify best practices and IT strategies that generate clear, tangible value – not someday, but today.

Visit [valuemanagement.sap.com](http://valuemanagement.sap.com) >>

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## Join Your Community of Practices

Every day, SAP Community Network (SCN) changes the way that thousands of SAP users work. It lets members help one another solve problems, learn, and invent new ways to get things done – faster. Find out how to connect with people, content, and resources.

Visit [scn.sap.com](http://scn.sap.com) >>



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