

SAP xApps



SAP[®] xApp[™] **EMISSIONS** **MANAGEMENT**

THE BEST-RUN BUSINESSES RUN SAP



ENHANCED BUSINESS OPPORTUNITIES THROUGH EFFICIENT EMISSIONS MANAGEMENT

SAP® xApp™ Emissions Management (SAP xEM) by TechniData is part of the growing family of SAP xApp composite applications. By flexibly aligning data and functions trapped in disconnected systems spread throughout your enterprise, SAP xEM helps you monitor, measure, document, and control emissions output with greater efficiency.

This leads to better compliance with regulations and helps you take advantage of new business opportunities in the emerging emissions trading markets. It also extends the value of your core business investments and maximizes the return on your strategic assets: employees, knowledge, products, business relationships, and IT.

MAKING COMPLIANCE GOOD FOR BUSINESS BY MAKING YOUR BUSINESS GOOD FOR COMPLIANCE

How crucial is emissions management? A simple cost-benefit analysis puts the issue into stark relief: Demonstrate a record of willing compliance and your company can build valuable goodwill with regulatory authorities and the public at large. Fail to comply and your company could face crippling fines or even lose its operating permits.

In other words, compliance is good for business. And for companies that manage the process with alacrity, compliance can even open up new streams of revenue – thanks to the emerging emissions trading markets. In emissions trading, companies that meet prescribed targets receive credits that can then be traded like stocks with other companies that can't meet their targets. This turns compliance into a business opportunity.

But if you're like many companies operating multifaceted manufacturing facilities, you find it nearly impossible to take practical advantage of these new opportunities. Compliance is a challenge. Overall emissions output is controlled by a host of disconnected systems. Emissions-related data is – quite literally – spread out all over the place. Gathering the appropriate information takes weeks if not months. Meanwhile, you have a business to run.

Introducing SAP® xApp™ Emissions Management (SAP xEM) by TechniData – one of a new breed of composite applications that spans organizational and technical barriers. SAP xEM brings together disparate data and application components spread throughout your IT landscape and unifies them into a logical system that helps you control, track, measure, and document emissions output.

And by aligning existing business processes with emissions-related tasks and procedures, SAP xEM improves manufacturing productivity and makes it easier for your company to take advantage of growing opportunities in the lucrative emissions trading markets.



INCREASE COMPLIANCE, REDUCE RISK, BOOST PRODUCTIVITY, AND PURSUE NEW BUSINESS OPPORTUNITIES



Efficient emissions management can truly set you apart from the competition. While they're interrupting operations to meet regulatory requirements, you'll be meeting the same requirements in a way that harmonizes with your existing manufacturing processes. And while they're searching for emissions credits to meet prescribed targets, you'll be in a position to sell credits on emissions trading markets and generate significant revenue.

Here's a brief look at what SAP xEM can do for your company.

ASSURE COMPLIANCE

To comply with emissions regulations, you need meticulous measurements and verifiable documentation. SAP xEM provides the tools to track emissions output and report your findings in the required format. It also facilitates complete external audit procedures.

REDUCE YOUR RISK

By continually tracking key performance indicators (KPIs) and compliance with internal and external regulations, you can manage risk in a way that minimizes the possibility of costly fines or shutdowns. Tools for generating forecast scenarios help you further refine risk calculations, and reporting and collaborative capabilities help you communicate your findings to key stakeholders.

ENHANCE YOUR FINANCIAL DECISION MAKING

With a comprehensive view of emissions-related data and operations, you can make more informed decisions about capital investments that are controlled by emissions permits.

IMPROVE OPERATIONAL PERFORMANCE

SAP xEM helps you improve plant operations by optimizing conditions while staying within the constraints of permits. You can build alerts that are automatically triggered when emissions values exceed plant limitations and use sophisticated tools to determine the required corrective action.

BUILD TRUST

Regulatory authorities are as busy as you are – and they place a high value on companies they can trust to do the right thing. With a transparent audit trail and flexible capabilities to meet a wide range of required documentation, SAP xEM helps you build valuable goodwill. This goodwill can extend not only to regulatory authorities, but to the general public as well. After all, a demonstrable commitment to sustainability can help you build business and keep customers.

INCREASE EMISSIONS CONTROL

With systems scattered throughout your manufacturing plants, it's difficult to monitor and control emissions uniformly. SAP xEM unifies these disparate systems in a single interface that gives you a 360-degree view of emissions data and role-based access to emissions management functions. You can monitor and control the status and development of emissions at their source and quickly comply with changing legal permits and regulations without placing undue demand on your internal technical and human resources.

ENHANCE YOUR DATA ACCESS CAPABILITIES

Emissions management is all about data, and SAP xEM improves your ability to access, compile, and integrate that data for emissions-related analysis and reporting. You can obtain the information you need for benchmarking, forecasting, investment planning, and much more. And with a template-based import-export function – with links to Crystal Reports and Adobe reporting software – you can put this data into a readable printed format for enhanced communications with the public, investors, and other stakeholders.

DEVELOP NEW STREAMS OF REVENUE

To participate in new emissions trading markets, your company first needs to collect, document, and verify the required data for approval by the appropriate authorities. Once approved, you need a way to participate. SAP xEM helps on both scores with powerful data warehousing and reporting capabilities for the approval process and integrated interfaces that connect to cutting-edge emissions markets for when trading begins.

SUPPORT FOR ALL OF YOUR EMISSIONS MANAGEMENT ACTIVITIES

Emissions Scenarios and Analysis

- Build structured representations of plants and processes
- Define and apply forecast scenarios
- Analyze complex emissions data
- Establish performance goals based on KPIs

Emissions Tasks and Compliance

- Track, analyze, and record emissions measurement data
- Use forecasting tools to assess the effects of operational modifications
- Build and use alerts to automatically detect excessive output
- Measure the environmental impact of excessive emissions
- Employ tools to indirectly measure greenhouse gas emissions
- Calibrate and maintain measurement equipment

Emissions Reporting and Documentation

- Analyze and present data and scenarios
- Automatically generate and distribute detailed emissions records
- Maintain contact data for all pertinent authorities
- Document communications for shareholders, investors, and the public

Emissions Trading and Collaborative Scenarios

- Connect to trading platforms and emissions markets via integrated interfaces
- Generate all documentation and data required for trading approval
- Employ forecasting tools to estimate credits
- Manage trading process with integrated transaction support

YOU ALREADY HAVE IT. SAP JUST HELPS YOU USE IT. LOW TCO AND ROI THAT'S HARD TO BEAT

Like all SAP xApps™ composite applications, SAP xEM sits on top of existing applications and enables new cross-functional processes that were previously impossible to achieve with any degree of cost efficiency. Add in new business logic to manage the process, and you've got an entirely new system that reuses existing system components for new purposes.

What does that mean for you? It means an exceptionally low total cost of ownership. By putting existing components to new use, you significantly increase the value of existing assets.

And a phased implementation approach helps minimize disruptions to your operations while delivering performance and functionality in short order. In the end, you experience a rapid return on investment and a host of correlated business benefits, ranging from streamlined compliance and higher productivity to new business opportunities and increased competitive advantage.

GIVE YOUR COMPANY THE EDGE IT NEEDS

Emissions management is an increasingly critical success factor for complex manufacturing facilities. Don't leave your compliance to chance. Choose the solution that gives you the tools to get the job done and create new opportunities in the process. Choose SAP xEM.

FOR MORE INFORMATION

To learn more about how SAP xEM can help you achieve efficient emissions management, contact your SAP representative today or visit our Web site at: www.sap.com/xapps



FEATURES AND BENEFITS – YOUR REASONS FOR CHOOSING SAP xEM

FEATURE	BENEFIT
Cross-functionality	<ul style="list-style-type: none"> ■ Realize a low TCO by reusing existing system components ■ Enable enterprise-wide processes that were previously not feasible ■ Break down organizational and technical barriers ■ Drive end-to-end emissions management processes
Emissions scenarios	<ul style="list-style-type: none"> ■ Forecast emissions based on various factors ■ Predict the ability to enter emissions trading markets ■ Calculate risk ■ Model solutions to excessive emissions output
Compliance	<ul style="list-style-type: none"> ■ Develop trust with enforcement bodies ■ Mitigate the risk of fines or forced closure ■ Increase productivity by aligning compliance process with larger processes ■ Track excessive emissions levels with automatic alert mechanisms
Reporting and documentation	<ul style="list-style-type: none"> ■ Meet detailed reporting requirements for any regulatory authority ■ Increase productivity with easy-to-use documentation tools ■ Enhance communication with key stakeholders and the public
Collaboration	<ul style="list-style-type: none"> ■ Connect with emissions trading platforms ■ Communicate with regulatory bodies for enhanced goodwill relationships ■ Simplify interaction with a host of systems for emissions-specific tasks
Management support	<ul style="list-style-type: none"> ■ Monitor KPIs and evaluate emissions management performance ■ Manage workflow and role-based employee access to permits ■ Generate high-level emissions management reports and distribute to pertinent parties ■ Evaluate risk based on emissions scenarios

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