

Ides MasterConcept for Energy- and Process industries





Nuclear Power

During more than 20 years our development has been influenced and executed in collaboration with all Swedish Nuclear Power Plants to create a system platform for technical data and documentation supporting the asset lifecycle. From system design, detailed design to hand over to maintenance and operations. With a clear task to achieve maximal safety and availability.



Renewable Energy – Wind Power and Solar Energy

Wind Power and Solar Energy are areas in fast development and transformation with the introduction of new technologies and product solutions. Characteristics for the Renewable energy sector is the volume of projects and choice of technical solution in every project. The control and accessibility of plant documentation is critical for the task to achieve maximum availability and reduced lifecycle cost.



Power Transmission

Availability of the National Grid and Regional Grid is vital for a functioning society. Therefore the requirements are high on all technical data and technical documentation both from the perspective of safety but also relevance of the technical content. These requirements reflect down to new construction projects, refurbishment projects and for maintenance.



Power Distribution

Design, construction and maintenance of the power distribution grid have to support each stakeholder's requirements. With Ides MasterConcept you will be in control of all technical asset information and technical documentation including support for information sharing between stakeholders.

Assets in Energy-Traceability, Avail

Reduced cost with Increased reliability in operations

Energy and process industries constantly endeavor to keep availability and reliability in complex plants and distribution grids as business critical and results in a huge focus on asset management, operation and maintenance. Disturbances during operation result in huge consequences for society, environment and profitability. Essential for a safe operation with a minimum of disturbances is the handling and management of technical information of the plant and how it is configured.

Each plant is built for a long life-span and during this period there are constantly new modification projects to add latest technology, increase safety and to increase reliability and availability. All new projects during the entire lifecycle are including many stakeholders and requires an IT-platform to support the entire lifecycle complexity. Plant and assets need to be maintained and asset information has to be transferred to management systems.

- > *FASTER TO SOLVE PROBLEMS*
- > *A PLATFORM FOR FUTURE ANALYZES OF IMPROVEMENTS*
- > *REDUCED COST*



Hydro Power

Have control of a hydro power plants condition and technical status is a requirement for planning of future investments and maintenance. With MasterConcept all plant technical information is managed during the whole lifecycle with support for design and documentation in all refurbishment projects.



Electricity, Gas, Water

Production and distribution of electricity, gas, distributed heating and water are the key functions for our society. Due to this, safety requirements are high and there is a huge demand of controlling plant information, design projects, documentations and maintenance. Huge cost savings can be made with better collaboration and planning with a standardized platform of plant data management.

and Process Industries require ability and Searchability

Ides MasterConcept – a total solution and data platform for the entire lifecycle of assets

The heart in our solution is a Plant Management System developed together with the Swedish Energy and Utility industry and is developed to support customers operating in Energy -production, -transmission and -distribution of electricity, gas, district heating and water. In combination to support all type of Design with integrations to CAD, Ides MasterConcept have solutions for:

- *High level support for design tools and document management of assets*
- *A unique asset structure for objects and Equipments based on international standards such as IEC, ISO, and KKS*
- *Full transparency between database and CAD documents*
- *Support of the entire plant lifecycle*
- *Project management with support for different plant stages from “as-designed” to “as-built”*
- *Ides Engineering Data HUB for synchronisation and exchange:*
 - *Between all stakeholders in the Design and Engineering process, suppliers and all others who create information and documentation during the design phase*
 - *Between the project and ERP and EAM systems such as maintenance, inventory, procurement and project administration*



- > HIGHER EFFICIENCY IN DESIGN AND REDUCED COST
- > SHORTER PROJECT LEAD TIME WITH INCREASED QUALITY
- > FASTER TO REACH RELIABILITY IN OPERATIONS
- > INCREASED RELIABILITY
- > INCREASED SAFETY



Enterprise Asset Management (EAM) MasterConcept part of the asset lifecycle and maintenance management

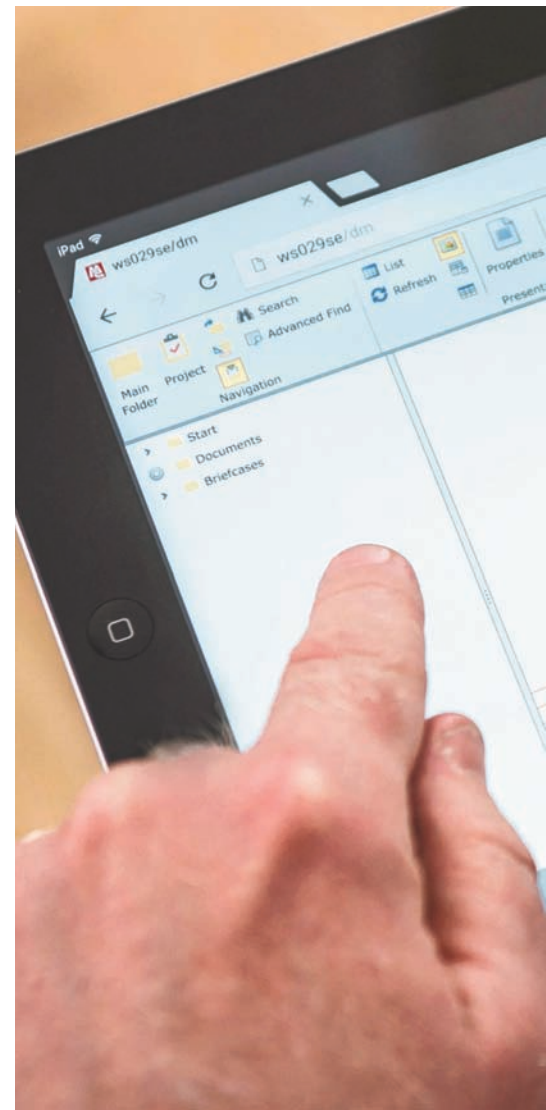
EAM as part of the project and design

Enterprise Asset Management or EAM is for many a business critical process where safety, availability and cost are the focus for maximum profitability.

In many projects maintenance planning and preparation begins as the plant becomes operational. Our experience shows that there are huge profits to include the maintenance aspect in construction and commissioning. The plant maintainability should be considered in the project's early phases and maintenance should be specified in an early stage before the plant is commissioned. The goal is as quickly as possible to achieve the planned performance and fault-free operation. All aspects of plant information shall be made available for maintenance and the operation in relation with the start of operation.

Property description and documentation is the basis for effective maintenance.

During a project, many documents are created describing the entire plant all systems with object functions, technical components, equipment dependencies and relations, specified in asset structures in Ides MasterConcept. The information is the basis for an effective maintenance and should in the early stages be made available for the maintenance and operation through the electronic transfer of asset data. With Ides MasterConcept information sharing is handled during phases of a project. MasterConcept also handles transfer of asset data and documentation to the asset owner's operation and maintenance systems.





cept as an integrated
ement



- > INCREASED RELIABILITY OF THE PLANT
- > OVERALL EQUIPMENT EFFECTIVENESS(OEE)
- > MAXIMUM USE OF MAINTENANCE RESOURCES
- > REDUCE COSTS FOR MAINTENANCE AND SERVICE
- > MANAGE A LARGE AMOUNTS OF DOCUMENTATION
- > OPTIMIZE THE SUPPLY AND PURCHASE

“MasterConcept
as an integrated
part of the Plant
Maintenance”



“With premade interfaces towards ERP and EAM systems you have the freedom to put your ambition on your own level”

Our experience shows that there are huge profits to include the maintenance aspect during construction and commissioning

Specification of preventive maintenance in the project's early stages

The value of considering a plant maintainability during construction are enormously from a lifecycle profit perspective. By creating work processes with the support of MasterConcept Maintenance, the maintenance specifications can be defined in good time before the start of operation. Reliability analyses and RCM definitions can be conducted and result in a complete maintenance specification for each plant object.

Preventive maintenance -specifications in Ides MasterConcept Maintenance is defined in a format corresponding the maintenance structures of traditional EAM-applications. At an early stage “convert” suppliers maintenance documentation into structured maintenance plans create the right conditions for data exchange between plant project and the plant owner.

Unfortunately it is all too common with a plant design that does not consider maintainability of the plant, which will eventually cause unnecessarily long interruptions for maintenance work and consequently lost revenues.



With premade interfaces towards EAM solutions you can choose to integrate or add MasterConcept Maintenance

Ides MasterConcept Maintenance as a part of EAM

With Ides MasterConcept you already have the basic functions for efficient maintenance such as facility, parts serials and all documentation. You can to this add Ides MasterConcept Maintenance and receive a fully integrated solution for your maintenance organization with

- *Plant/facility*
- *Documentation*
- *Preventive maintenance plan*
- *Work orders*
- *History and follow-up*

Ides MasterConcept gives you support for the plant's entire Life cycle where design, maintenance and operation work together to achieve maximum capacity utilization.

Transfer of information from the project to maintenance

Working with MasterConcept during all Project phases means that the plant information and documentation can be electronically transferred to your maintenance and business systems.

If the plant owner already have an existing maintenance system, all preventive maintenance specifications and work order history can be transferred. The result is a fast up and running preventive maintenance with the start of operation. This will affect performance and profitability of the new plant.

>ELIMINATES COSTS

>SUPPORT FOR PREVENTIVE MAINTENANCE
AND WORKORDER DURING COMMISIONING

>INCREASED PERSONAL SAFETY

>PLANT LIFE CYCLE HISTORY AND WARRANTY
FOLLOWUP



“Full transparency
for all stakeholders
in EAM projects”

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