

EPC PETvantage[®]

Plant Modernization | Revamp | Capacity increase

IDEAS INSIDE



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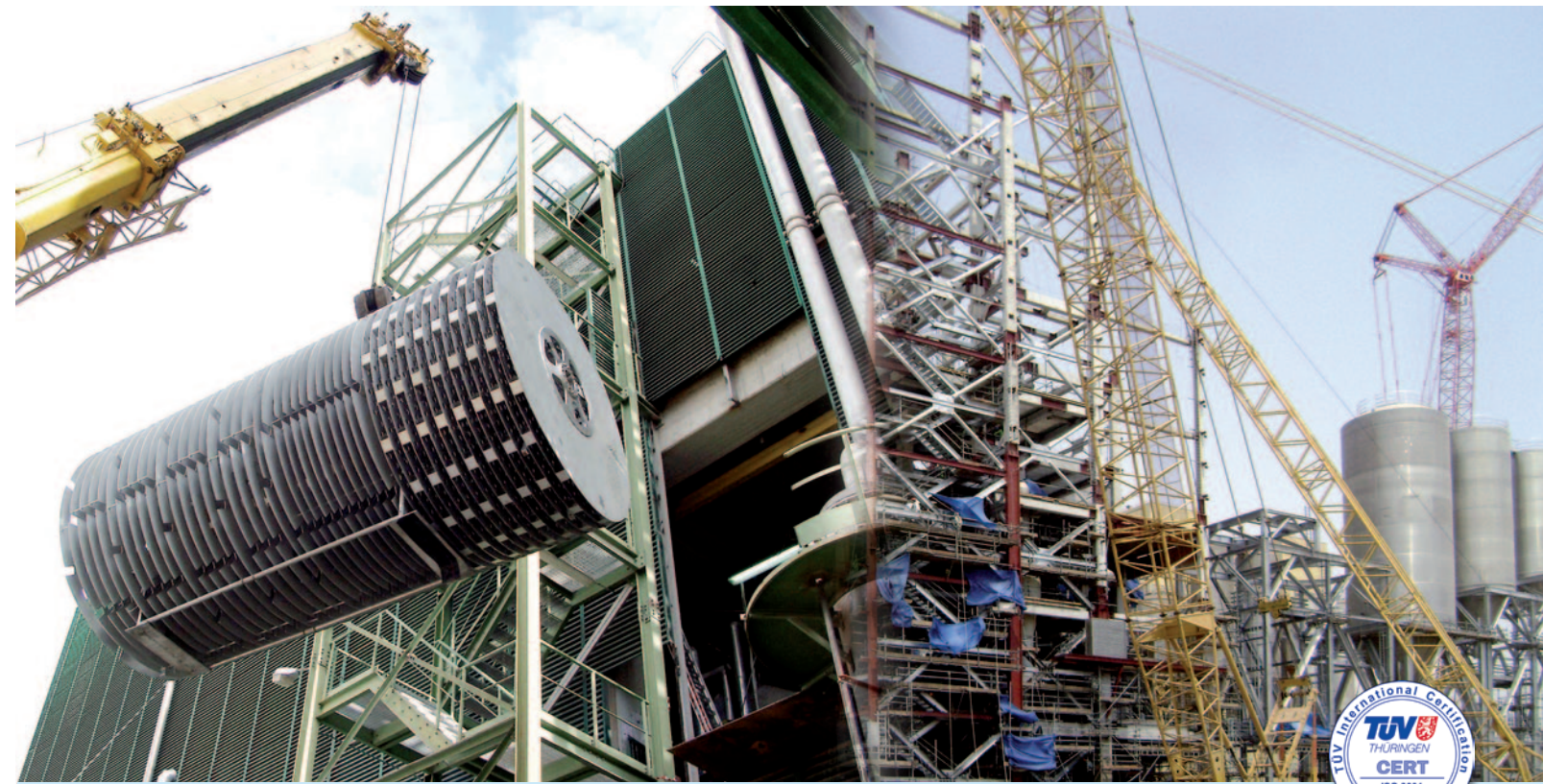
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The EPC Group is certified according to DIN EN ISO 9001:2008



Sustainable Business Solutions

Revamp, capacity increase or plant modernization is in many cases the right answer to re-establish competitiveness and comply with market demands. We are offering tailor-made solutions for the revamping of existing polycondensation plants. In doing so, we eliminate existing bottlenecks and identify the optimum between investment costs and plant output regarding quantity and product quality.



EPC PETvantage®

The system that ensures a consistent product quality

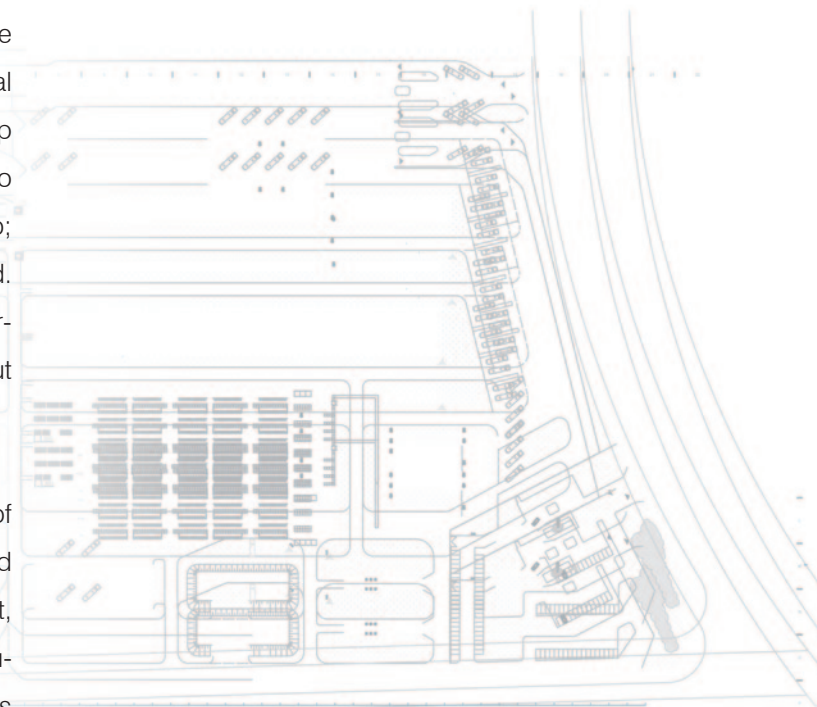
Revamp is in many cases the right answer to re-establish competitiveness and comply with new market demands.

During the first step a plant assessment & analysis will be carried out as the basis for a feasibility study, identifying the bottlenecks and potentials of the plant. Considering the local conditions and future market demands various revamp conceptions will be elaborated. The feasibility study will also consider the operation costs before and after the revamp; often a significant reduction of the fix costs can be realized. The comparison of these various scenarios will help to determine the optimum between investment costs, plant output and operation costs after revamp.

After the revamp target has been set a detailed pre-design of process and related systems/units, equipment and instruments/electrics/materials subject for replacement, addition or expansion will be prepared. The pre-design includes the detailed scope of works and project time schedule as well as a budgetary quotation and detailed feasibility report.

The realization of the revamp project starts with the basic engineering, followed by the detail engineering, procurement and delivery of the required equipment, shutdown of the plant, the installation of new equipment, modification of existing equipment and finally the restart of the production.

EPC has developed the EPC insidePET, an Advanced Plant Process Control. The system ensures a consistent product quality even with fluctuating raw material qualities and a simplified PET Polycondensation plant operation.



CONTACT PERSON

For general questions around Revamp and EPC PETvantage® please contact:

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CAPACITY INCREASE | PRODUCT CHANGEOVER | ENERGY AND UTILITY SAVINGS

- Efficient enhancement of the increase potential
- Doubling of capacity in many cases possible
- Shortest plant shutdown
- Changeover from textile to bottle grade
- Production of new products
- Alternative raw materials
- Reduction of energy and utility consumption
- Heat recovery
- Cooling water savings

5 STEPS OF STRATEGIC ANALYSIS BEFORE REALIZATION

To determine:

- „market fit“ approach
- most effective revamping conception

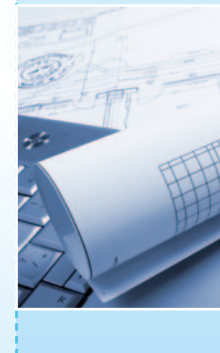
STEP 1 „Status Quo“

- Market trends analysis
- Competitive situation



STEP 2 „Objectives“

- Future portfolio
- Future capacity and market



STEP 3 „Possible Solutions“

- Future production plan
- Plant revamp scenarios



STEP 4 „Feasibility“

- Evaluation of feasibility vs. Technology
(which way is the best?)



STEP 5 „Conclusion“

- Tailor made Revamp Conception by EPC GROUP

