

Reference List – Owners Engineering

Customer/End User	Project	Year
Utzenstorf Paper Switzerland	Thermal Power Cycle – 5.8 MW • Feasibility study for the automation of the thermal power cycle	2012
Veolia Environment Switzerland	Thermal Power Cycle – 3.5 MW • Feasibility study for the thermal power cycle	2012
St. Galler Stadtwerke Switzerland	Geothermal Power Plant – 3.0 MW • Feasibility study including performance calculation, operational concept and cost assessment • Feasibility study for the integration of other plants with the geothermal plant for cogeneration	2011
Entsorgung St. Gallen KHK Kehrichtheizkraftwerk Switzerland	Waste to Energy Power Plant – 5.8 MW Steam Turbine Retrofit • Analysis of installed Steam Turbine • Specification for steam turbine retrofit • Supply, erection, commissioning and testing support	2011 - 12
Airlight Energy SA Switzerland	Thermal Solar Power Plants - 5 projects from 1 to 50 MW • Cycle calculation including performance report • Cold end system optimization • Conceptual engineering including plant layout, heat balances, single line diagrams, operation description • Component sizing of boiler, pre-heater, fan, hot air duct • Pipe size calculation for steam, condensate and feedwater	2010 - 11
EGL Energiegesellschaft Laufenburg AG Switzerland	Combined Cycle Power Plant - 400 MW Plant Operation Flexibility Program: • Process systems assessment and definition of retrofit program for plant cycling operation (boiler, water/steam cycle, air cooled condenser, balance of plant systems) • Process analysis and process retrofit program for water supply and water treatment systems (zero discharge site) • Plant staff training program and training sessions	2009 - 10
RWE Germany	Steam Power Plant - 800 MW Cold End Study: • Basic design for dry cooling systems (natural draft, enhanced natural draft and mechanical draft) • Evaluation and net present value analysis	2008
EGL Energiegesellschaft Laufenburg AG Switzerland	Combined Cycle Power Plant - 400 MW Performance Prediction for Specific Project Development: • Performance characteristics and algorithms • Analysis of multi-year meteorological data • Plant life time predictive performance calculation and analysis • Software application program	2008 - 09
EGL Energiegesellschaft Laufenburg AG Switzerland	Combined Cycle Power Plant - 400 MW EPC Contract Specification for Power Systems: • Heat recovery steam generator • Water and steam cycle • Balance of plant systems	2007 - 08
EGL Energiegesellschaft Laufenburg AG Switzerland	Combined Cycle Power Plant - 400 MW Cold End Optimization for Specific Project Development: • Variant analysis of dry, wet and hybrid cooling • Optimization of specific cooling system • Net present value assessment	2007 - 08

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AVAG KVA AG Thun Switzerland	Waste to Energy Power Plant – 12 MW Problem Analysis Feedwater System: <ul style="list-style-type: none"> • Process and system analysis • Road map to solve the problem based on analysis • Design improvement 	2006
ERZ Entsorgung + Recycling Zürich Switzerland	Waste to Energy Power Plant – 25 MW Total process analysis: <ul style="list-style-type: none"> • Plant process and system analysis • Optimization for availability, thermal performance and operation concept • Optimization for system solutions 	2005 - 06
Transitgas AG Switzerland	Combined Cycle District Heating Plant – 10 MW Owners Engineer: <ul style="list-style-type: none"> • Water chemistry analysis • Evaluation and improvement reporting 	2004