


YOUR ENERGY PROJECT OPTIMIZER




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MY SKILLS

- ✓ 20 years of experience in utilities in several divisions (large power stations, Headquarters, R&D, Project manager Dep., Fuel Cells, Renewables/Solar)
- ✓ 4 years in management position in international consulting business
- ✓ 3 years as independent Consultant in project management, project manager coaching, innovation
- ✓ Innovative capacity, creativity and quick comprehension of complex topics
- ✓ Ability to lead international and inter-divisional teams and projects
- ✓ Jobs in renewable and conventional energy systems (solar PV, CSP, hybrid systems / batteries, fuel cells, coal, gas, special fuels, energy efficiency)
- ✓ Owner's/Investor's project manager in several projects of more than 800 Mio. €
- ✓ Tenders and contract negotiations for plants and equipment (> 1,000 Mio. €)
- ✓ Experience in coaching and project manager training
- ✓ Worked in all topics as Due Diligence, technology selection, development, permits, commissioning, claims, H&S, O&M, energy efficiency, regulation, tendering
- ✓ International project development and large project acquisitions
- ✓ International experience and sensitivity for different cultures



PROFESSIONAL EXPERIENCE

4/2018 - today

Independent Consulting Engineer
www.enomize.de, Essen, Germany

- ⇒ PROJECTS: Leading Projects in Renewables in all phases and topics
 - for investors, utilities and organisations
- ⇒ COACHING: Training of (project) managers for all-embracing project responsibility
- ⇒ INNOVATION: Bringing creative elements in projects and support organizations for the requirements of the ENERGY TRANSITION.

Executed Projects:

- Project execution (construction&operation) for an investor of large PV plants and windfarms in Spain, France and Germany (legal, financial, permits, technical)
- Project management for project development and implementation: wind farm with power-to-hydrogen plant and battery storage for distributed generation of a city
- Consultant on innovative concepts for coal mining sites in transition (Store-to-Power with thermal salt storage at coal-fired power plant sites for using renewable energies)
- Project development of a hydrogen refuelling station on a waste-to-power plant
- Evaluation of a start-up for solar thermal power plants
- Interim project manager for starting a deodorizing plant project in a main gas pipeline
- Coaching of the project manager and the project team, optimization of the offer processes and the project organization during the strategy change to complex innovative projects/processes

4/2014 – 3/2018

Head of Department Renewable Energies/Solar
 Lahmeyer International, Bad Vilbel

- Responsible for technical and commercial department results for projects (PV, CSP, batteries/hybrid, geothermal, biogas, fuel cells),
 > € 2 million/a for engineering services
- Supervisor for 15 international employees
- Ensure successful project execution/quality/H&S/compliance
- Project director for major projects (e.g. 100 MW CSP South Africa, Island Hybrid PV/battery/biodiesel, 200 MW PV Dubai)
- Business development with international and national clients
- Negotiate partnerships for international cooperation on PV projects
- Coordination of business activities with Tractebel and ENGIE
- Consulting services from knowledge of (German) Energy Transition to (international) developer/utilities (regulatory, tariff structures, tenders) and energy efficiency
- Coordinate feasibility studies, solar assessment, project development, tendering and investigations for governments/development banks
- Build-up of new product services (off grid/micro grid, floating PV, solar irrigation, solar desalination, Wind/PV Hybrid)
- Starting innovation process for new technologies (block chain, digitalisation, smart city/grid/e-mobility) for new business model
- Presentations at international fairs and workshops

2010- 2014

Senior Project Manager (> € 300 million)
 RWE Innogy GmbH - New Technologies/Solar

- Owners Representative and Project manager on site for the solar-thermal power station (50 MWe CSP) Andasol 3 in Spain (up to 800 workers on site)
- Reporting to consortium boards, claim management, permitting





- Built the O&M organisation of solar CSP power station Andasol 3
- Create the photovoltaic (PV) business for RWE Innogy future business and training of staff

2007 – 2010

Senior Project Developer and Project Director (> € 7 billion)
RWE Power - Project Development Department international

- Set up structures for project/business development for Poland, Czech Republic, Baltic States, Bulgaria and Romania and coordination of business partners
- Work stream leader for acquisition of a major utility in East Europe (> € 2 billion)
- Business Development for German Entities
- Project director for RWE Power New built coal assets (3 x 2000 MW, > € 5 billion)

2005 – 2007

Senior Project Manager for large projects (> € 600 million)
RWE Power - Project Manager Department

- Project manager for gas storage system (2 pipe storage systems for 900,000 m³ + 700,000 m³), gas compressor station and gas turbine
- Project development / final contract negotiations for new 400 MW lignite/biomass-fired power station Mátra (Hungary)
- Project development / final contract negotiations for new CHP power station Huckingen C (230 MWel on coke oven and blast furnace gas)
- Deputy project manager for topping gas turbines at power station Mátra (Hungary)

2000 – 2005

Senior Project Manager and Senior Engineer (> € 15 million)
RWE Fuel Cells GmbH (official founded 2003)

Engineering and operation of fuel cell power stations

- 100 kW SOFC and 300 kW MCFC in Essen
- Certification of technical US equipment for the German market

Project manager for:

- Micro gas turbine and 4 fuel cells (heat, cooling, electricity) for the administrative building of NRW government in Berlin
- Micro gas turbine and fuel cell for the utility of Ahaus
- 300 kW MCFC fuel cell with biogas at sewage plant in Ahlen

National and international:

- Business Development for clients/authorities/manufacturers

3/2000-9/2000

Deputy Project Manager (manager training program)
RWE: Large strategy project between RWE Power and Rheinbraun

- Pollution reduction of 5 lignite fired power stations to ensure operation of power stations and proceeding of mining business

1998-2000

Operating and Maintenance Engineer
RWE Energie: lignite fired power station Weisweiler (2,000MW)

- Engineer for boiler and pressure equipment
- Project manager for new site water supply





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| 1996-1998 | <p>Research Engineer
RWE Energie: Research Department Niederaussem</p> <ul style="list-style-type: none"> • Tests of special fuel in a fluidized bed combustor (Head of testing team) • Research on new energy technologies • International research cooperation and presentations |
| 1995-1996 | <p>Researcher International Research Program of European Union
RWE/EU: University Cardiff, Great Britain/Wales (Half year abroad)</p> <ul style="list-style-type: none"> • Research project on innovative gas combustion |
| 1994-1995 | <p>Trainee Program
RWE Energie: lignite fired power station Niederaussem (2,000WM)</p> <ul style="list-style-type: none"> • Several projects in O&M and engineering • Commercial and organisational departments • Project on 150 MWe fluidized bed combustor Goldenberg • Hydro pumped-storage power station Herdecke • SAP trainer for inventory management module |

EDUCATION

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|-------------|--|
| 1988 – 1994 | <p>Degreed Engineer (Equals Masters Engineering),
University of Braunschweig
Energy, Process and Environmental Engineering</p> |
| 1986 - 1988 | <p>German Military Service (grade lieutenant)</p> |
| 1973 - 1986 | <p>University-entrance diploma (Abitur)</p> |

QUALIFICATIONS

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|------------|---|
| Languages: | <p>German: native language
English: fluent for contractual negotiations
Spanish: medium level</p> |
| Award: | <p>CEO award for the best project leadership (Andasol 3 CSP plant)</p> |
| Software: | <p>Office tools, MS Project and commercial/organisational tools</p> |
| Seminars: | <p>Internal assessment centre for manager career successful
Several coaching seminars</p> |

October, 2020

Thomas Klinge

