

PROFILE

AEP Energie-Consult GmbH -
Your partner for successful
industrial facilities

**We, AEP Energie-Consult GmbH, have a clear vision:
Actively promoting energy efficiency and the expansion
of renewable energies.**

We are fully convinced that an energy supply, which is not dependant on limited resources and dangerous technologies, is necessary and possible in the not too distant future.

A comprehensive range of modular services

Today, 15 highly-qualified engineers work at AEP in the following business areas:

- Plant planning
- Supply and disposal technology
- Planning and engineering of photovoltaic plants
- Consulting for energy efficiency and the application of renewable energies

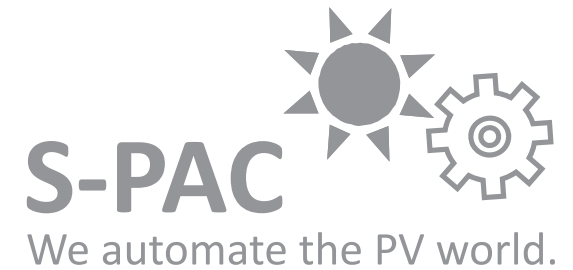
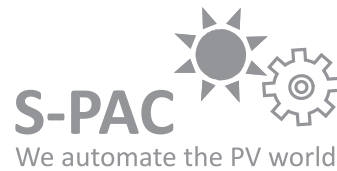
Our expertise from all business areas complement one another perfectly and are developed in joint cooperation.

Our work ethic and expertise have a broad interdisciplinary approach and guarantee highly efficient results, both in a technical and economic respect.

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S-PAC

Saxon Photovoltaic
Automation Cluster



PRODUCTS

Our products = our services

Fab Planning

- Development and design of complete factories
- Planning and supervision for the construction of factories
- Focus on closed value-added chain for PV (crystallization, wafering, cell production, module production)
- High-level planning projects for the semiconductor industry and other sectors

Facilities

- Engineering from feasibility study to construction supervision for all supply and disposal media as well as process media like process chemicals, technical/toxic gases, heating/refrigeration/air conditioning, ultrapure water/neutralization ...

Consulting

- Energy optimization for existing systems and processes
- Development of highly economical plants and supply concepts for commerce and industry
- Integration of renewable energies in combination with conventional energy sources
- Application of latest technologies for energy generation, storage and distribution

PV-Systems

- Independent consultant for complete PV-systems
- General planner for the construction of complete PV-plants and systems

INNOVATIONS

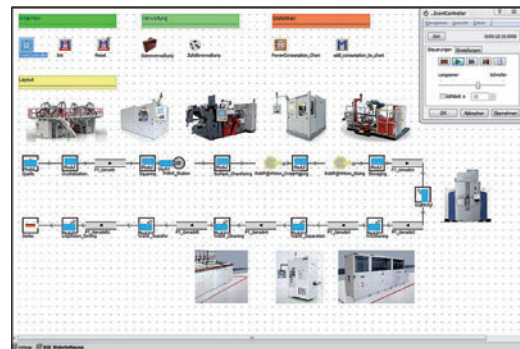


Development of tools and methods for factory planning

Innovation 1

Development of methods and environments for modeling and simulation of PV factories (in partnership with Chemnitz University of Technology)

- Development of models for PV production factories, integrating production process and energy/media supply
- Development of a simulation environment and method

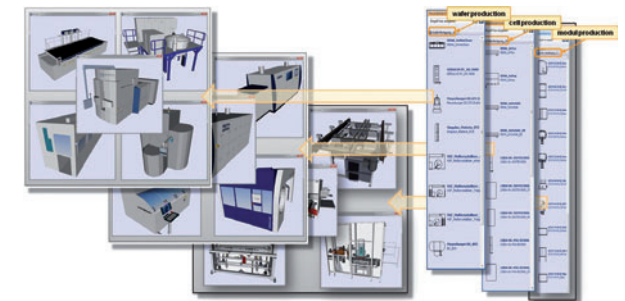


Modeling of a wafer production line in Plant Simulation

Innovation 2

Development of new technical concepts for energy supply, media supply and disposal

- Development of facility concepts to minimize the net energy consumption
- Development of supply, disposal and recycling concepts for process technologies of the next generation

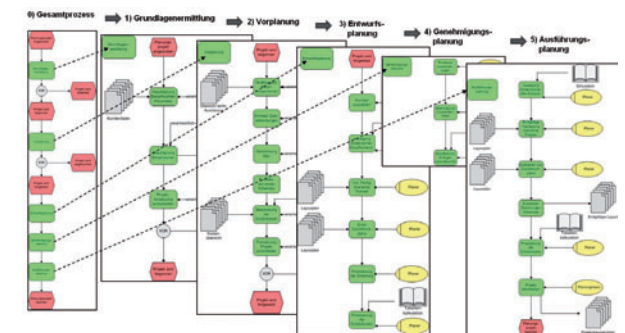


Implementation in VisTable by Chemnitz University of Technology

Innovation 3

Development of modular standard planning tools for PV factories

- Methods, modules and standardized interfaces for highly efficient PV factory planning
- Integration of Innovation 1 and 2



Example of work flow