Siemens PTI Supports Research and Development (R&D) Project “Seestadt Aspern” in Austria

Aspern is one of the biggest European city development projects in recent decades. During the next 20 years, a complete new city district of Vienna is planned to be developed in the area of the former Vienna airfield, with living space for up to 20,000 citizens and working space for up to 20,000 employees. The Aspern Smart City Research GmbH & Co KG (ASCR) was founded to create a research environment for infrastructure, smart buildings and smart grids. Besides the installation of smart meters, power network sensors and meter data management systems, an innovative network grid analysis and development supporting tool will be created.

The Siemens units; Corporate Technology (CT), Smart Grid Technology and Innovation (SG TI) and the Siemens PTI Consulting team are cooperating in this three-year project. Working as Siemens PTI expert and project manager, I have participated in three workshops with the development team of the “Seestadt Aspern” Project, which is supervised by Siemens SG TI in Vienna. I’ve also been supported by Holger Mueller, head of the Steady-State System Planning Department, and his Siemens PTI network development team.

For the duration of the project, Siemens PTI will provide expertise regarding fundamental design processes and give the point of view of potential future users. The new tool will be designed for network operators and network planning departments. Siemens PTI gives important input on tool requirements and expected outcomes for satisfying usability and applicability. PSS®SINCAL was the first choice as the central calculation engine. The future tool will control PSS®SINCAL and its predefined optimization instruments as well as additional optimization algorithms via COM-interface. Those additional algorithms will be defined in strong cooperation with Siemens PTI over the next three years.

The analysis of real measurement data and consequential network design will be merged in order to meet the future growing complexity challenges in power networks.
Figure 1 - **Seestadt Aspern**, which is located north of the Donau River, will provide living space for about 20,000 citizens. It is only one of several expansion projects for Europe’s fastest growing city Vienna.