



## CASE STUDY

# Safety First for Siemens – Expertise and a Digital Solution Form a Strong Team

For the construction of a new digital factory with an Industry 4.0 design and operating concept in Nanjing, China, SIEMENS commissioned the experienced experts at DEKRA to develop and effectively implement a comprehensive safety concept in accordance with international HSE standards.

### Optimized HSE Management During New Facility Construction in China

The digital industrial facility in Nanjing, China, covers more than 75,000 m<sup>2</sup> and houses both research and development as well as serving as a production base for SIEMENS Numerical Control Ltd. (SNC) producing numerical control systems and servo motors.

On the construction site, SIEMENS was focused above all on implementing and ensuring compliance with their own high internal safety standards as well as on central HSE (**Health, Safety & Environment**) management by experienced specialists. The aim was to develop awareness of safety issues among regional construction companies, which required communication processes to be optimized using a variety of media and IT systems. Other requirements included establishing effective risk management and creating a high level of transparency around current measures and progress.

### A Successful Team – On-Site Expertise and the DEKRA Safety Platform

The DEKRA team was chosen on the basis of the project's search criteria and took advantage of the opportunity to successfully demonstrate its competence and experience in HSE & Sustainability Management for the first time in the growing Chinese market. DEKRA experts were on site every day in two shifts effectively implementing SIEMENS' stringent safety requirements at all levels, from the general contractor to the subcontractor. As a result of competent, methodical technical support, the targeted briefing of new contractors, regular inspections and daily toolbox talks, risk awareness and sensitization among the contractors increased significantly.

The DEKRA Safety Platform, a specially designed digital solution, facilitated efficient networking among all those involved.



This is a real added value, even under non-pandemic circumstances: Hazards can be identified quickly and effectively, those affected can be informed immediately, and risks can be mitigated by taking swift, appropriate action. At the same time, this cloud solution allows experts to collect data, documents, images and other media on plans, defects, incidents and construction progress in a systematic, centralized manner. This means that safety analyses, trends and management reports are available in real time with clear graphics for the construction project managers, the customer's global HSE departments and DEKRA experts for optimum safety monitoring.

### Sustainable Construction Site Safety Right From the Start

Thanks to outstanding cooperation among DEKRA experts, SIEMENS, the general contractor, the project management company and SIEMENS Regional HSE, the company's high safety standards were effectively implemented on the construction site. The key success factors here were the availability of on-site expertise in combination with the cloud-based DEKRA Safety Platform, which boosted efficiency and saved considerable time in safety management.

The results are convincing: The number of reported accidents and downtimes has been "0" since the start of the project, and sustainable safety has been achieved on the entire construction site as well as in individual divisions. Those involved are satisfied, since safety at work and on the **construction site** pays off several times over – in higher productivity, reduced risks and effective construction progress.

"The overall package with on-site experts, the digital cloud solution and a multinational but at the same time centralized project management really convinced us."

Real Estate Senior Manager at Siemens

Would you like more information about our services for optimized construction site safety?

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