

REFERENCE CASE REAL ESTATE



Operational and Financial Concept for the Modernization of Elevators in the Ukraine

As part of the Federal Ministry for Economic Cooperation and Development Germany (BMZ) develoPPP.de program, TÜV Rheinland has entered into a developmental partnership with the German Association of International Cooperation (GIZ) GmbH to modernize elevators in the Ukrainian city of Odessa.

Basic facts	
Client	German Association of International Cooperation (GIZ) GmbH
Timeframe	November 2011 – October 2013
Main services	<ul style="list-style-type: none">Operational and financial concept for modernizationSafety InspectionsTechnical surveysEnergy efficiency analysisDesign and implementation of exemplary elevator renovationsCreation and implementation of training programs
Involved regulations/standards	<ul style="list-style-type: none">Evaluation of energy efficiency according to VDI 4707BetrSichV, TRBS 1201,4 (elevator inspection)DIN EN 81-80

Initial situation and requirements

Funded by BMZ, the develoPPP.de program is bringing businesses and developmental agencies together and paving the way for developing, emerging and transitional countries to benefit from the power, expertise and technology of business who, in turn, is able to enter new markets at a lower risk.

With most of the elevators in Odessa having been built 20 to 40 years ago, modernization was desperately needed to improve the safety, functionality and energy efficiency of public elevators in municipal buildings. TÜV Rheinland's expertise within the elevator sector provided officials in Odessa the operational and financial concept necessary to update existing municipal elevators in order to be compliant to and certified under all regulatory EC standards.

Solutions, results

In order to modernize and positively impact the safety, reliability and energy efficiency of elevators in Odessa, we first laid a solid technical, legal and financial concept as the foundation upon which to ensure the feasibility of the project.

In addition, our experts surveyed the energy efficiency and technical condition of the elevators to find ways of saving energy and reducing CO2 emissions. Based on these findings, we created and executed exemplary elevator renovations which saved energy and enhanced operational safety. Furthermore, we submitted recommendations for the revision of existing regulations and standards within the frameworks of energy efficiency, maintenance and safety. We also developed and conducted elevator maintenance training programs for specialized staff, maintenance firms and property management companies.

Upon successful completion of all specific measures, results were presented to the Odessa Development Programs Agency (ODPA), a local developmental agency responsible for the decision-making process at the politician level, with the intention that municipal elevators in Odessa would be modernized.

Did you know?

The Ukraine has approximately 100,000 elevators, 4,200 of which are located in the buildings of Odessa.



Benefits for the client

TÜV Rheinland supported the develoPPP.de project by providing:

- Technical expertise and extensive experience in the elevator sector.
- 200 highly-specialized engineers.
- Guaranteed compliance with applicable standards and regulations.

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About TÜV Rheinland:

Founded 140 years ago, TÜV Rheinland is a global leader in independent inspection services, ensuring quality and safety for people, the environment, and technology in nearly all aspects of life.

We inspect technical equipment, products and services, oversee projects and help to shape processes for companies around the world. Since 2006 we have been a member of the United Nations Global Compact to promote sustainability and combat corruption.

Our extensive experience in the elevator industry ensures that your elevators are energy-efficient, safe and compliant to all necessary requirements. Within the scope of neutral consulting and testing, we make sure that applicable standards and regulations are followed during testing of elevator construction and safety installations to guarantee optimal operational performance and ultimate passenger safety and comfort while positively impacting the environment.