



Über EBE About EBE

The company EBE was founded as EBE Elektroinstallationen Ges.m.b.H. in the year 1980 in Vienna. In the beginning the company was mainly occupied with electrical installations, and the installation of lightning protection and grounding systems.

Over the years activities were expanded and new business divisions created. The rising demand for satellite-antenna systems in the 90's created the possibility to reinforce our activities in the area of antenna engineering. EBE Elektroinstallationen GesmbH managed, with a lot of experience, to become a competent partner for the construction and erection of communal satellite systems in large housing projects.

Stemming from this experience, the service and repair department were given more importance. Through long-term cooperation with many building maintenance administrators and the optimising of internal procedures (service handling, databank administration of the assignments) EBE has adjusted itself to the requirements of the customer group and developed itself as a valuable partner in the service and repair area. A focal point at this moment is the performance in the area of door entry and access control.

Through the constantly increasing customer circle, many contracts were received from outside the Viennese city boundaries. For this reason an office was opened in Oberrohrbach in Lower Austria in 1997.

In 2002 the new business division EBE_Solutions was founded. This division involves itself with the development and realisation of innovative solutions in the areas of telecommunication, telematics and traffic telemetry, as well as with sirens / alarm engineering for fire brigade and civil defence. Database solutions with interactive data access over the internet for the customers are also in this branch, likewise the development of hard- and software solutions for the use telemetry sector.

The positive development of all business areas and the related increase of employees led us to outgrow our premises. In 2003 we moved to the current office building in 1230 Vienna, Breitenfurterstraße 274. From that time onwards the development of internal organisation could be given more attention. Because of actual trends (the importance of documentary evidence and the independence and neutrality of our expertise) and our own strong business ethos with the theme "Technical inspections of electrical installations" could be developed.

In 2004 the name was changed to EBE Elektrotechnik GmbH, to communicate outwards the realignment of the company as a service provider and developer.

In 2006 EBE successfully attained the ISO 9001 certification of quality management by the ÖQS, as a way to sustain the high standard of achievement and to constantly improve those standards.

Unternehmensleitbild

Business principles

It is our goal, to determinedly use opportunities and to realise them consequently. Cross linking of skills, clear scope of duties and to act on the latest standard of technology are means for reaching this goal.

The focus points are:

- >>**Sustainability**
- >>**Customer orientation**
- >>**Innovative technical solutions**

EBE employees are constantly schooled to satisfy the quickly changing and growing requirements of every-day work environment and to satisfy our customers to and over their expectations.

Abteilungen

Divisions

Currently our company is split into three technical business areas.

- >>**EBE electrical engineering (classic)**
- >>**EBE technical testing and certification**
- >>**EBE-solutions**

We also have administrative departments for:

- Controlling
- Computer and software-applications
- Quality management
- Research & development
- and internal services

EBE – Elektrotechnik

EBE - Electrical engineering

Elektroinstallation

Electrical Installation

- Our service spectrum includes:
 - Coordination with the energy supplier
 - Temporary power installations
 - Project development and management
 - Preventive maintenance/Fault finding
- Industrial, commercial, retail, and domestic installations
- Photovoltaic energy gaining systems
- Green components: automatic power off systems, etc
- Additional supplementary services

Blitzschutz & Erdungsanlagen

Lightning protection & grounding systems

- Planning and development
 - Risk analysis
 - Safety class
- Construction in compliance with Austrian/European electrical engineering standards
 - High quality materials (Aluminium or Copper)
 - Foundation- or depth grounding
 - Lightning arrestors and rods
 - Isolated or separate lightning conduction equipment for SAT + antennas and other lightning endangered electronic equipment
- Planned periodic inspections
- Services
 - Inventory of equipment on-site
 - Creation of a protocol and administration thereof
 - AutoCAD – creation of plans (hardcopy and digital)

Erdungsanlagen, Potentialausgleich und Überspannungsschutz

Grounding systems , potential equalisation and surge protection

- Grounding systems
 - Horizontal foundation grounding systems conforming to standards
 - Documentation and reporting before further construction takes place
 - Expanding the vertical grounding system after building conversions
 - Earth equalisation ring circuits with lightning arrestors
- Earth potential equalisation
 - Meshing (integration) of the earth grounding systems
 - Domestic Bathrooms – connection of the conductive piping systems within the protected area
- Surge protection systems
 - Protection from lightning and stopping the effects carrying over into your own equipment
 - Raises the security of fallout of IT and electronic systems
 - Standardised product range from rough to fine protection
 - Simple installation, and easy to expand

Antennentechnik

Antenna engineering

- DVB-T
 - Digital terrestrial antenna television
- SAT-receiver systems
 - Digital SAT – QPSK (Quadrature Phase Shift Keying)
 - Modern Hi-end multi-point IRS systems (communal systems)
 - End appliance consultation (TWIN Receiver, HDTV)
 - Anchor/mounting systems for roof and walls
 - Satellite signal distribution systems

- Receiving and distribution systems
 - Digital Satellite (for 1-4 Satellites) systems
 - Multi-focus reception
- Communal Satellite Systems
 - Digital technique (QPSK digital SAT, COFDM digital terrestrial, QAM digital cable)

Gegensprechanlagen

Door entry and Access control

- Specialized because of our experience and order volume
 - Multiple service teams in the Viennese area
 - Specialise in repair and modernisation of old and out dated systems
- Audio and CCTV systems
 - Integration in your telephone system
 - Porter/Security exchanges
 - Individually designed systems eg. Medical clinics, Embassies
 - Letterbox systems
- Vandal proof
- Wide product range - classical-elegant to technoid-modern
- Digital systems with for example:
 - Numeric Keypad for input
 - Voice message
 - Ringing tone distinction
 - Switching systems with multi-entry gates

EBE Elektroüberprüfungen

EBE Technical Inspections

Prüforgan für elektrische Anlagen

EBE Technical Inspections: The check-up body for electrical systems

For maintenance and upkeep to meet mandatory standards or the necessity to stay up-to date with technology, all this first needs an examination of the actual condition of the in-house circuitry – an inspection!

This includes, in addition to an inventory of what is installed, the manual testing and measuring. The results are an outcome report and an asset ledger. Thereby in case of doubt when dealing with a third party, you have written proof about the state of the electrical systems!

The main aim of such a check up is to make sure that the circuits are safe and the overriding safety functions are working properly, therefore guaranteeing your safety.

Our specialisation as a certified inspection body also means that we willingly “only” check up, without eventually wanting to make an offer to do any follow-up work. That means that you can trust in the quality and independence of our technical inspection services.

One alternative is the examining before planning or renovation by an architect, developer, etc... Here we can create coordinated documentation, which will simplify further steps like tenders, or it can be used as a receipt for your customers.

Please bear in mind that the Austrian regulations (ÖNORMEN) and European ordinances require the maintenance and testing of electrical equipment. Because of this an inspection is a necessity.

Besides the electrical regulations, other factors such as Health & Safety at work, Council building regulations or your rent contract necessitate an inspection, or periodic inspections.

Please make use of our experience and detailed knowledge of the regulations, the costs of a check-up can be recovered manifold with planned inspections and maintenance. The knowledge of yourself, your family's or your customer's safety has at any rate its own significance.

Prüforgan für elektrische Anlagen

Technical inspections of electrical systems

The company EBE does check ups on electrical equipment based on the relevant standards. All the data is administered through a service tool developed in-house, which gives the customer the possibility to see the results and protocols online over a web browser surface.

EBE inspects more than 10,000 electrical systems (apartments, riser cables, etc) alone each year, for Viennese Municipal Housing Agency (Wiener Wohnen),

Elektroprüfungen im Auftrag von Wiener Wohnen

Technical Inspections for Wiener Wohnen

EBE does inspections of the electrical systems for the Viennese municipal housing agency. These are assigned to us by the respective customer service centres. Because of the long term rents and the therefore related age of the apartments, defects and faults in the systems are not uncommon.

EBE Solutions

EBE Solutions

This division is engaged in the development and realisation of innovative solutions in the areas of telecommunication; telematics, especially traffic telematics and Siren- / Alarm technologies for fire brigades and civil defence. Databank solutions with interactive data access over the internet belong in this division just like the development of hard- and software solutions for telematics uses.

Systementwicklung

Planning and projecting, developing, erection, start-up, service and repair of client specific solutions

Products and projects

- Traffic management system LOTOS
LOTOS, the laser based traffic data gathering system, makes it possible to count vehicles contact free; it measures the speed and the length of the vehicles and then classifies them. Each reading is saved together with date and time. With this measuring system up to 4 lanes in different directions can be monitored simultaneously. The collected data can be transferred via GPRS. The raw data is saved and related to software – for every application – is processed to reference data. The processed information can then be used to make real time statements about
 - Traffic congestion
 - Traffic delays
 - Travel times
 - Intervals between vehicles (average and real time)

Clients always have access to their actual traffic data – password protected on the internet or a query via SMS.

- VIACOUNT II stationary radar device
The Viacount II is a compact traffic counting device, which is small, handy and flexible and works on the basis of radar.
 - Measurements in both directions possible
 - Long battery running time
 - Automatic data analysis through analysis software
- Side radar device EBE
This is a stationary as well as a mobile radar device which can be set up next to the road and record both directions. The capacity of the battery is set up so that can operate at least 14 days. The traffic data can either be recorded on site or be sent at regular intervals per GSM to your computer. The data can, with help of analysis software, be analysed in table, as well as in graph format.

Verkehrstelematik

Traffic control and supervision services – Telemetry

EBE-Solutions is a member in the ANTTTS network (Austrian Network for Traffic and Telematics for small and medium enterprises)

- ❖ Bicycle counting in Lower Austria
- ❖ Bicycle counting in Burgenland

The traffic data recording is done with various systems - depending on the requirements – as a service for our customers. This way it is not necessary to buy the devices, plan their use and to analyse the data. Our customers receive the final report on the pre-arranged date.

We are currently offering the following services:

Automatic traffic stream analysis using video logging

EBE Solutions, a division of EBE electrical engineering GmbH, in cooperation with Arsenal Research has developed a system for the automatic analysis of traffic streams. This is a stand alone system (no external power supply or a data connection necessary) and offers the following advantages and analysis possibilities:

Advantages:

- Automatic recording of traffic streams through number plate analysis
- Fully itemised data
- Low personnel costs
- Lengthy duration possible
- Irrespective of traffic volume
- 24 hour usage
- Irrespective of weather
- Swift start up on site
- Subsequent data analysis according to changing interests and needs

Analysis possibilities:

- Target and source traffic
- Transit traffic
- Traffic junction analysis
- Travel time census for a section of road
- Amount of foreign vehicles
- Section counting
- Classification of Austrian number plates into political districts
- Classification of vehicles (difference passenger car/truck, or if wished also truck and trailer, Bus, etc)

Bicycle counting with laser and video detection (LaVid_a)

EBE Solutions, a division of EBE electrical engineering GmbH, has in cooperation with the traffic specialists of Arsenal Research – Austrian research and test centre Arsenal Ges.m.b.H – developed the innovative measuring device LaVid_a to automatically capture traffic data using laser sensors and video technology. LaVid_a is a stand alone system and so can be set up quickly at different locations and put into operation.

To reach a very high quality of raw data, two different recording technologies are combined. The laser sensor records in a freely selectable area, the number of objects as well as their relative speed and length and it determines related to software the quality of the measurement. To optimize the accuracy of the laser sensor, a video is created parallel to the laser readings, which, together with the data of the laser sensor, builds the basis for the subsequent database analysis. Thereby the data of the sensor as well as the video camera are summarised and the data records are assigned to their respective picture. Using an entry mask, the measured data of the bicycle flow can now be filtered using different parameters. Data with a low quality parameter can be reworked manually. The won results are added to the automatically analysed results. Measuring accuracy: tolerance of +/- 5%

Technical and administrative monitoring of stationary radar devices

By the continual use of stationary radar devices a demonstrable speed reduction occurs and offers the base for the increased road safety.

The heightening of road safety in certain areas by speed controls:

- Speed reduction near schools, kindergartens, residential areas, etc
- Mitigation of accident accumulation sites like protected roads, junctions, slip roads
- Permanent speed reduction and the thereby connected noise and pollutant reduction

Our services:

- Regular inspections as well as film change/downloads and device cleaning
- Direction and site change
- Film and data analysis
- Hand over of traffic violations to the regional administrative authority
- Planning and start up of new sites
- Long-running statistics of the traffic data analysis

Forschung & Entwicklung Research & Development

Within the national and international research subsidy programmes the possibility is offered to us and our project partners to develop new, innovative solutions and to meet the needs of our customers in a quickly growing traffic telemetry market. Within these subsidy programmes the following projects were developed with our project partners.

- LaVid_a
Automated traffic data capture system based on Laser and video detection.
Consortium manager: EBE_Solutions
Project partner: Arsenal Research
- ROLOP
Road inflow optimisation to the Austrian RoLa (rolling roads) terminals.
Nominated for the state prize for telemetry 2006 "innovative use in traffic"
Consortium manager: Donau University Krems
Project partners: EBE_Solutions, Swarco Futurit, ABC Consulting, Verkehrspuls, Rail Cargo Austria

- ISIS-EK
Intelligent System for Identification and Signalling at non secured level crossings
Consortium manager: Swarco Futurit
Project partners: EBE_Solutions, Graz Köflacher Eisenbahn, Rail Cargo Austria, ÖBB - Infrastruktur Betrieb AG, Kuratorium für Verkehrssicherheit, FH Joanneum Kapfenberg GmbH, verkehrspuls
- FUSION
Floating car data and sensor intelligent integration
Consortium manager: Arsenal Research
Project partners: EBE_solutions, mobilkom austria, traffic.at, Taxi 31300
- Destination Navigation
Mobile system for conduction, navigation and information query using spoken instructions
Consortium manager: Telesis - Development and Management GmbH
Project partners: EBE_solutions, arsenal research, CURE (Centre for Usability Research and Engineering), PVL (Public Voice Lab)
- Bicycle Road Safety.
Heightening of bicycle safety in the area of junctions by using LaneLights and sensors.
Consortium manager: EBE_Solutions
Project partners: Swarco Futurit, ABC Consulting

Siren Alarms

Electronic Power Sirens (EPS)

EBE offers complete systems and components for siren systems in the sector fire brigade and civil defence services respectively. electronic sirens, combined with radio controlled receivers and wireless fire detectors demonstrate a considerable advance.

Nachrichtentechnische Lösungen

Communications engineering solutions

- Studio engineering
- Transmitter engineering
- Alarm devices
- Video surveillance & video systems
 - Planning and development, construction, installation and servicing
- Routing table
 - Customer care, planning, construction, service and repair
 - EBE as the distribution partner of the company Ehmki & Schmid

Kontakt Daten

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