

SOFTWARE, SYSTEMS AND SOLUTIONS

MEASURED DATA AND
PROCESSES SAFELY UNDER
CONTROL



POWER GENERATION ▪ ENERGY DISTRIBUTION ▪ ENERGY CONSUMPTION

ENERGY IS LIFE

Each individual area of our modern infrastructure is compellingly dependent on energy. Securing both energy supply and energy quality is of paramount importance so that these areas can operate safely and reliably. This results in manifold challenges for people, the measuring technology, software, communication and evaluation.

We support you in this complex environment with suitable solutions for your requirements. We assume the process from planning and execution through to analysis and interpretation of the measured data.

Infrastructure of our modern society



Figure 1: Areas of modern infrastructure
Source: Camille Bauer Metrawatt AG

WE LINK YOUR MEASURED DATA AND PROCESSES

Our range of services comprises 4 main areas:

- Measuring and displaying
- Power quality
- Monitoring and controlling
- Software, Systems and solutions

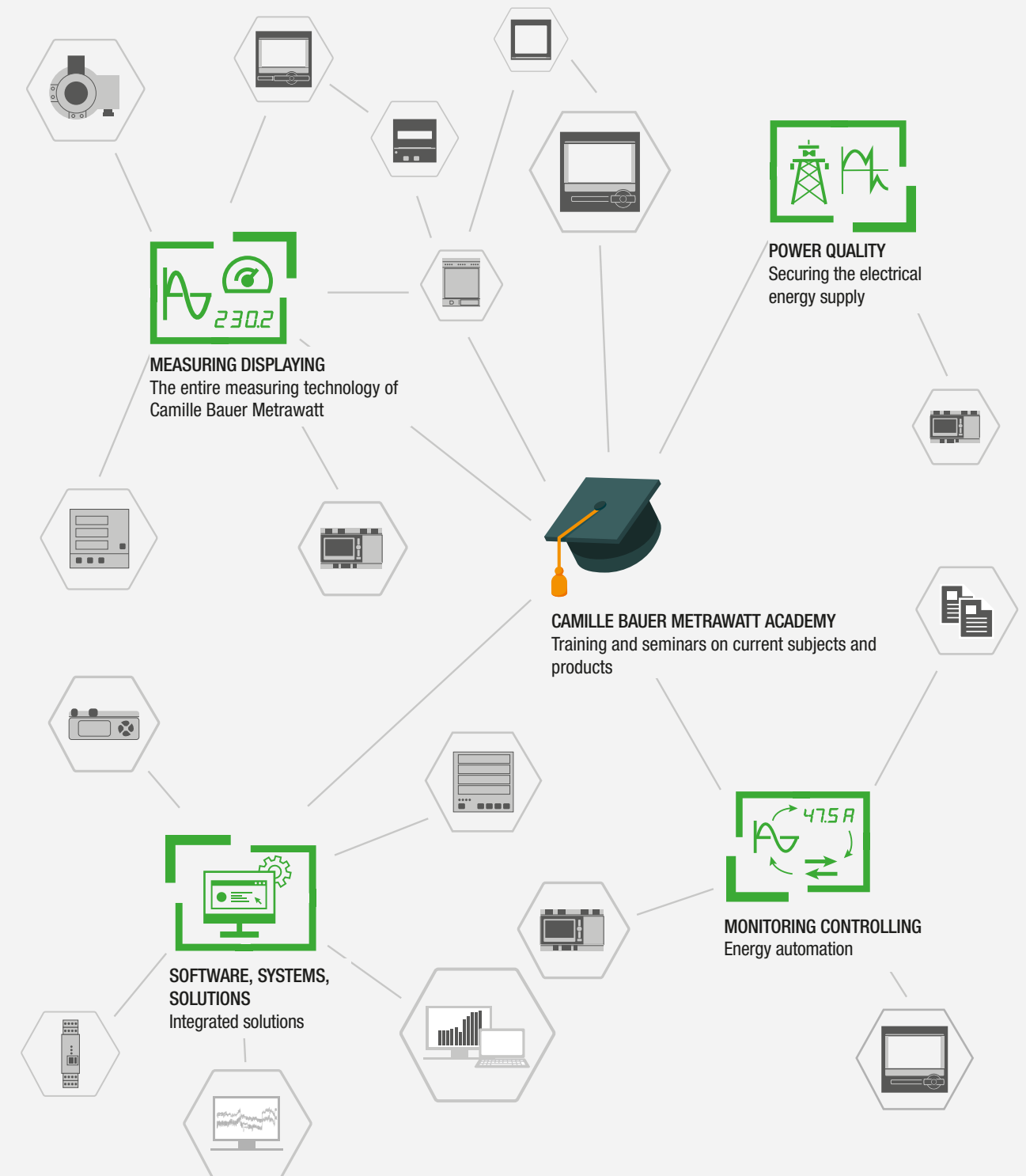
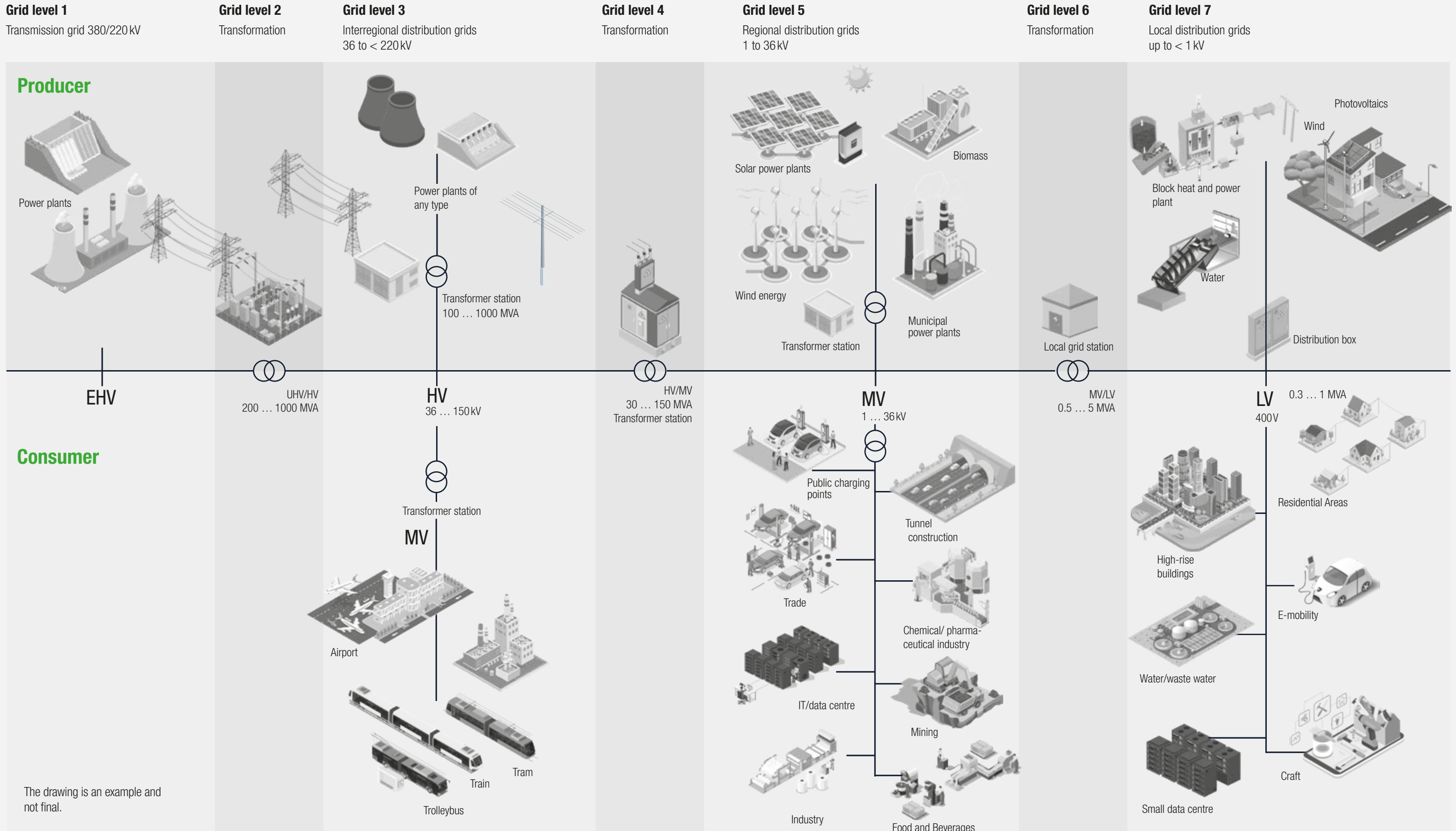


Figure 2: Range of services from Camille Bauer Metrawatt AG
Source: Camille Bauer Metrawatt AG

For details see pages 6 and 7

CAMILLE BAUER METRAWATT FITS IN ANY AREA OF APPLICATION

You find us in all applications of energy producers, energy distributors and energy consumers



The drawing is an example and not final.

OFFER AND SERVICES

One company - full range

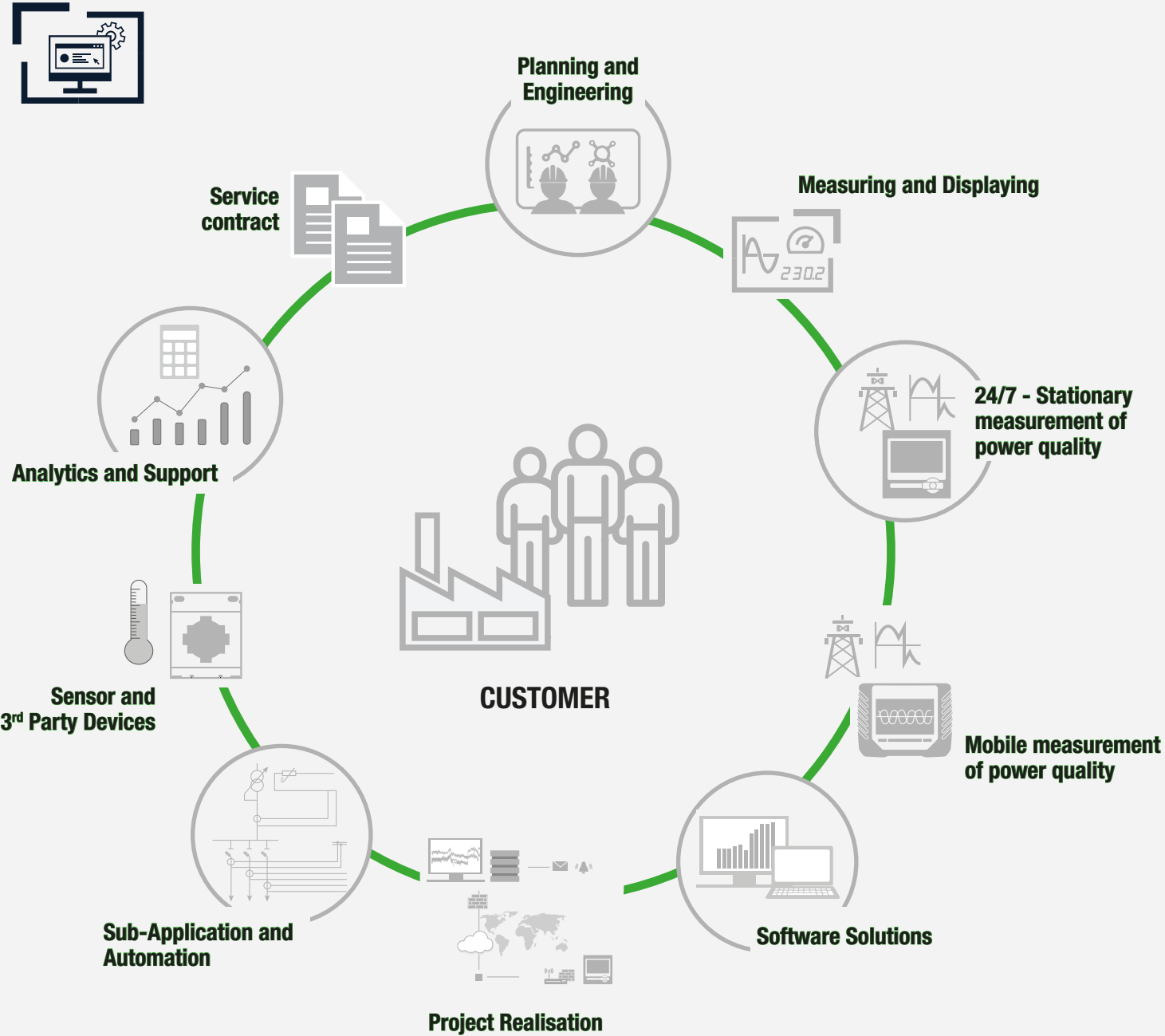


Figure 3: Software, Systems and Solutions
Source: Camille Bauer Metrawatt AG



We design modular customer-specific solutions and systems which can be extended at any time regardless of manufacturer. Through our non-proprietary interfaces also an integration in already existing applications and systems with components from different manufacturers is not a problem.

OFFER AND SERVICES IN DETAIL

Planning and engineering



Linking of measuring instruments becomes an IT subject. We show you possible system landscapes and support you during the entire project phase.

Measuring and displaying



We offer a wide range of measuring instruments and sensors in the entire area of electrical energy production, distribution and consumption.

24/7 - Stationary power quality measurement



We specialise in the permanent acquisition of power quality according to normative specifications or your own requirements. Employing our unique, ultra-modern and certified measuring instruments, we ensure a high degree of supply quality.

Mobile measurement of power quality



If grid phenomena are concerned, we offer a wide range of mobile devices and know-how for troubleshooting by temporary power quality measurement.

Software solutions



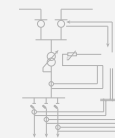
We offer extensive solutions for easy acquisition, saving and evaluation of all measured field data. We visualise your process and clearly condense all important information. Power quality data is evaluated and analysed. Alarms are forwarded to the desired terminal device.

Project realisation



We assume and coordinate the entire project realisation while cooperating with a network of partners and experts.

Subapplication and automation



We include existing applications and automation solutions in our conception and integrate them expediently into an overall system while combining electrical variables with other process automation variables.

Sensors and devices of third-party suppliers



The flexibility of our interfaces enables us to supplement our offer and our systems by sensors and devices of third-party suppliers at any time thus always creating the best solution for our customers.

Analysis and support



Our partners and experts prepare analyses from the acquired measured data which scrutinise your grid situation. In case of concrete problems due to grid phenomena, we draw conclusions concerning possible causes based on the data and our experience of many years.

Service contract



We offer you extensive services. From support and training through to the regular maintenance of you facility. Attractive service contracts offer you cost-effective and convenient opportunities so that you can entirely concentrate on your core business.

EVALUATION SOFTWARE FOR PQ MEASURING INSTRUMENTS



The following table shows which devices can be used with which software.

DEVICE	Visualisation via Webbrowser	PQ-Diffractor	PQ-Easy Reporting	SMARTCOLLECT	DRAN-VIEW	PQVIEW	REST Interface	App-Version
LINAX PQ SERIES	✓	✓	✓	✓	✓ ²⁾	✓	✓	
SINEAX AM SERIES	✓			✓			✓	
SINEAX DM5000	✓			✓			✓	
SINEAX DM5S/F				✓				
APLUS				✓				
MAVOWATT 2XX	✓	✓			✓			✓
MAVOWATT 30		✓			✓			
METRAHIT ENERGY								
LINAX PQ5000 MOBILE	✓	✓	✓	✓	✓ ²⁾	✓		
HDPQ SP	✓	✓			✓			✓
EXTERNAL DEVICES		✓		✓ ¹⁾		✓	✓	

1) Power quality data acquisition of external devices via PQDIF according to IEEE 1159.3

2) In planning

PQ-EASY REPORT FOR POWER QUALITY DATA EVALUATION

PREPARING CONFORMITY REPORTS EASILY AND WITHOUT COSTLY SOFTWARE

The power quality measuring instruments of Camille Bauer Metrawatt AG provide a web-based feature to create statistical power quality reports directly from the instrument. Standardised reports in PDF format are generated and made available to viewers.



- PDF creation via WEB interface of the device
- Selectable report duration
- Selectable report scope (overview, statistic details, event overview)
- Direct compliance assessment of standards EN 50160, IEC 61000-2-2 / 2-4 / 2-12, GB/T, IEEE 519 or customer specific limits
- Customer specific logo in the report



The PQ EasyReport comprises a statistical examination of power quality and can be activated freely or according to a defined standard.

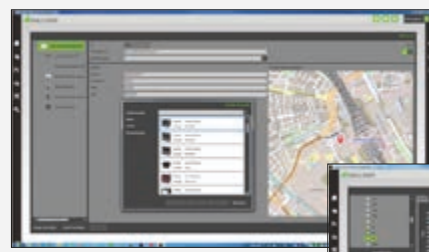
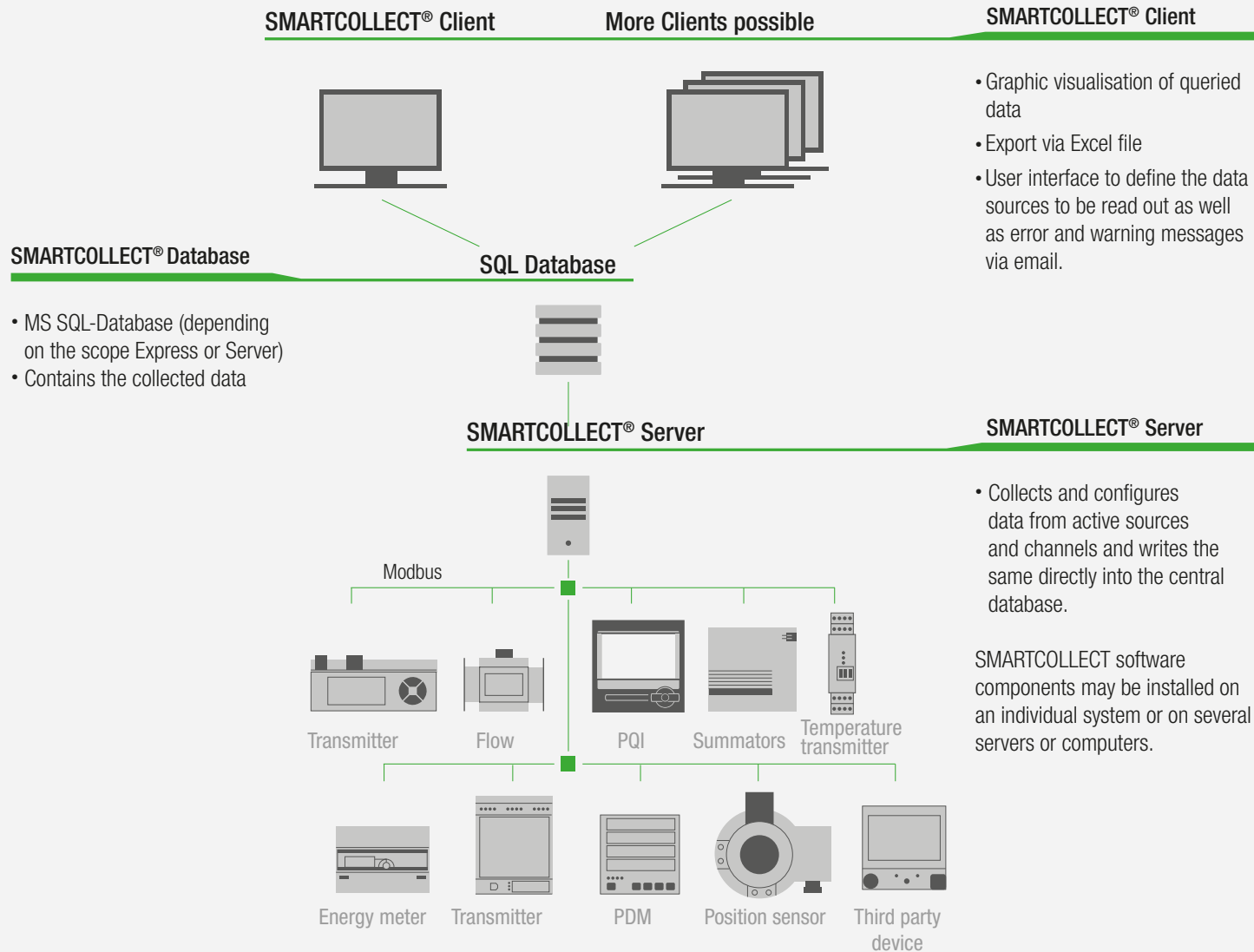
Generated PDF format



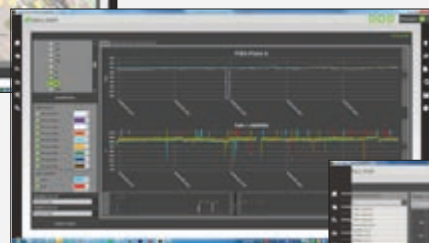
INDUSTRIAL ENERGY AND DATA MANAGEMENT

We collect all of the data of your measurement instrumentation and manage it centrally. Your processes are clearly structured, energy consumption becomes apparent. We prepare reports from the measured

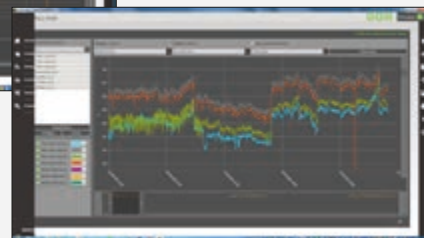
data, e.g. energy overview reports or measured data reports. A graphical representation of the entire process as well as the navigation through the process itself can be realised.



SMARTCOLLECT® PM10
Easy data acquisition



SMARTCOLLECT® PM20
Simplest data visualization

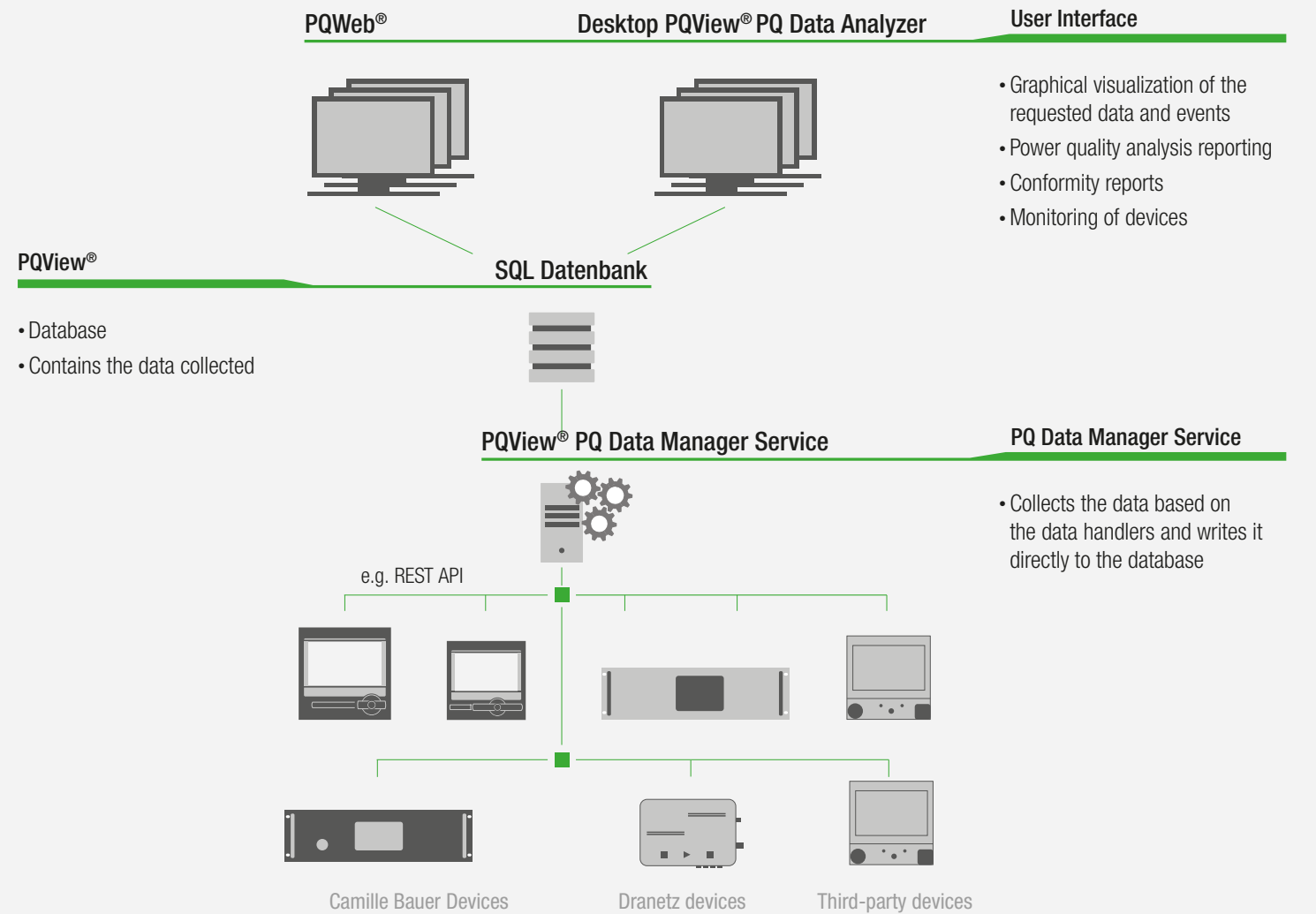


SMARTCOLLECT® PM30
Scadalight

PQVIEW® FOR MONITORING THE POWER QUALITY

PQView® is a database software application which is designed to read out, store and analyze with mid size to large quantities of power quality-related data. PQView® enables users to organize data from a variety of instruments, such as power quality monitors, microprocessor relays, and digital fault recorders. It also stores site characteristics (e.g. substation, bus, feeder, latitude, longitude, etc.), and event information

for voltage sags, transients, and faults (e.g. root cause code or text description). PQView® brings all this information together in one relational database and provides the means to automate both, the loading of new data and the generation of monitoring reports. PQView® comes with a base set of reports that provide information on raw measurements, detailed statistical analysis, and executive summaries.



DATA LOG
Static Chart



Detailed event analysis
Interactive oscillograms



PQWeb®
Sicheres Multi-User Platform mit Zugriff über Browser



GMC INSTRUMENTS

 **GOSSEN METRAWATT**
 **CAMILLE BAUER**

Camille Bauer Metrawatt AG
Aargauerstrasse 7 ■ 5610 Wohlen ■ Schweiz
TEL +41 56 618 21 11 ■ FAX +41 56 618 21 21

www.camillebauer.com ■ info@cbmag.com