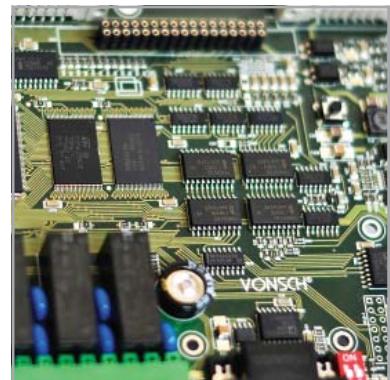
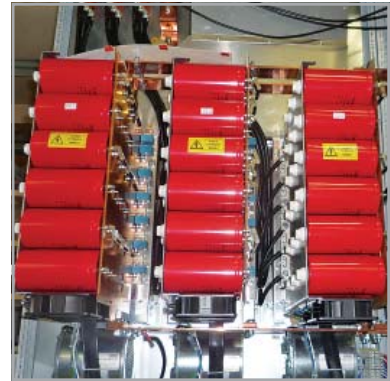




## Custom power electronics solutions



# VONSCH®

since 1990

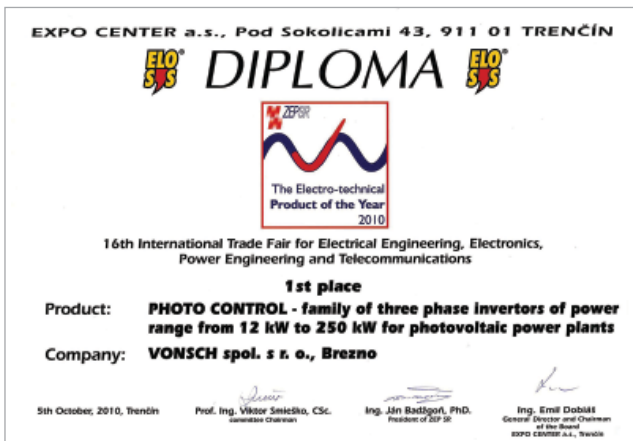
more than your expectations...



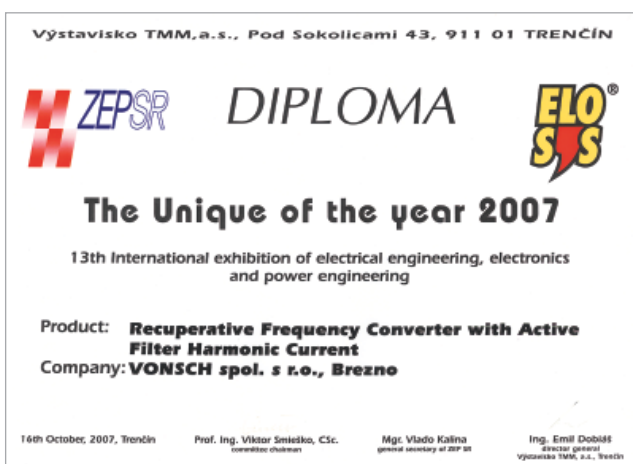
## Quality and Reliability



Top quality according to ISO 9001:2008  
 Research and development, production, sale, assembly  
 and service of power electronics.



Our philosophy is not just to sell many inverters; our philosophy is to do challenging engineering projects with our electric drives or inverters. Our purpose is to create individual solutions for every customer.



Why cooperate with VONSCH specialists?

- We specialize on development and production of electric drives and power electronics for more than 25 years
- Our team is optimal composed: professionalism – experience – verve
- Our team is of optimum size, is flexible and smart
- Our solutions cover the full cycle: briefing- prototype – extensive testing- serial documentation – serial production

VONSCH has received several prestigious awards from international trade fairs.

all for people – all for nature – all for future...



## Electric drives

Our electric drives program consists of:

- Softstarters
- Frequency converters up to 1600 kW
- Active Front Ends up to 1400 kW
- Custom modification of our products to fit the requirements of the customer
- 230 V, 400 V, 500 V, 690 V or custom voltage class for all the products



Custom built frequency converter  
UNIFREM 720 1400  
for special motor  
(720 V, 680 A, 1400 kW, 11000 rpm, 184 Hz)

Let us discover the future of the drives





## Complete electronics solutions for mining locomotives



We have made drives for many kinds of machines including suspended, battery powered and trolley locomotives. We also have rich experiences with ATEX certified drives and power electronics.

VONSCH traction drives solutions:

- Designed and produced according to the requirements of the customer
- Based on high-performance vector control in custom designed VONSCH drives
- Motors running at very high speed in field-weaking mode
- Auxiliary drives for the hydraulics, fans, air conditioning, sandbox can also be included
- We can also design the control system for the whole machine
- Traction battery chargers and dischargers



Quality without compromises  
under ground, on the ground, above the ground



## Artificial AC mains

Artificial AC mains are special devices for the creation of virtually any grid conditions. Typical example is the emulation of American grid (110 V 60 Hz) in the European conditions for testing the products intended for export.

Features:

- Custom voltage, power, frequency to fit your needs
- Very high quality of output voltage
- Suitable as replacement of rotary converters 100 Hz, 200 Hz, 400 Hz
- Very low EMC emissions
- Short design and delivery time

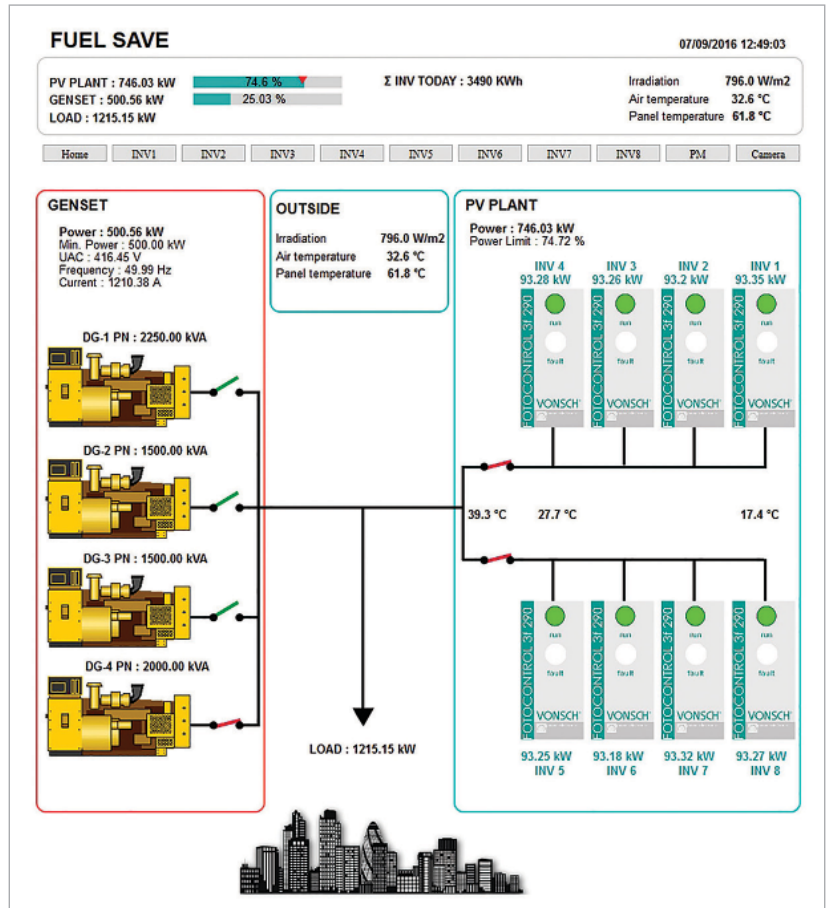


We built your own grid, any you would like





# Custom solar solutions



From a 2 kWp small home system to multi-MWp solar park.

All made in terms of highest European quality.

- Single and Three-phase systems
- Off-grid, On-grid, Hybrid inverters
- Fuel Save Systems
- Energy Storage integrations
- Solar irrigation systems
- Remote monitoring and diagnostics



Harvest the sun



# Green energy - small hydro power plants

The most reliable and stable renewable energy source.

Successfully exploited for centuries.

- Custom designed and built
- Maximum power point tracking: gain the maximum power even during the not-so-good conditions
- Local and Remote monitoring and diagnostics – SMS and E-mail alerts, web visualization and control
- Very high quality of grid current
- Safety functions



Čoltovo: one of the most ecological hydro power plants in Slovakia



**MVE ČOLTOVO** 07/09/2016 08:18:36

Dodávaný výkon: 88.7 kW 99 % Výroba dnes: 710 kWh  
 Otáčky turbíny : 22.21 ot/min 100 % Výroba včera: 2138 kWh  
 Hladina : 3.35 m

**VONSCH®**

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MVE

Trendy

Alamy

Servis

GF1 Rladený usmerňovač

Chod  Porucha

Teplota chladíča: 75.6 °C  
Teplota okolia: 43 °C  
UDC: 684.9 V

Výkon : 88.75 kW

GF2 Vstupný strieďač

Chod  Porucha

Teplota chladíča: 61 °C  
Teplota okolia: 31 °C  
Obmedzenie hladiny 60 Hz  
Obmedzenie výkonu 47.3 Hz

Frekvencia meniča: 47.3 Hz

---

N1 Nabíjačka

Chod  Porucha

Napätie batérie: 54 V  
Prúd nabíjačky: 0.9 A

FOTO CHARGER DC 48

375

Prúd motora: 153.6 A

START

1808.9 hod

55.5 °C

72.4 °C

Hydraulika

22.21 ot/min

STAVIDLO1

STAVIDLO2

Zafarbenie: 0 %

Zafarbenie: 0 %

Hladina: 3.35 m

Želaná hladina: 3.35

Dvihatj stavidla  Spúšťaj stavidla

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**Aktuálne Alamy:**

Ack	Date	Tag	ActionDate	User	Description
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<input type="checkbox"/>	07/09/2016 06:02:10	STAVIDLO_2_DOLE	ALM (LVL) 07/09/2016 06:02:10	Koncový vstiah	Koncový vstiah

With respect to the nature





There are persons behind every success

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VONSCH foreign representative may only be specialized, trained, highly skilled and reliable partners, as the satisfaction of our customers comes first and must be guaranteed.

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Slovakia – EU  
Info@go-pure.eu  
<http://go-pure.eu/>

Representative in Czech Republic:

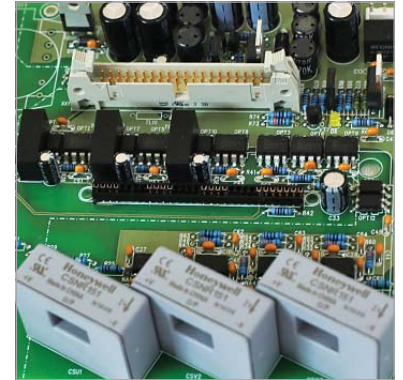
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We are looking forward to your challenges.