

Welcome to

**KBE**

BERLIN



# Corporate Structure



BEHG  
HOLDING AG



KBE  
BERLIN

Manufacturer of:

- Automotive cables
- Charging cables
- Solar cables
- Industrial cables
- Founded 1980
- 85 Employees



KBE  
TUNISIE

Manufacturer of:

- Automotive cables
- Data cables
- Solar cables
- Copper strands
- Founded 1995
- 85 Employees



DLB  
BERLIN

Manufacturer of:

- Strands and ropes
- Tinning
- Founded 1988
- 88 Employees



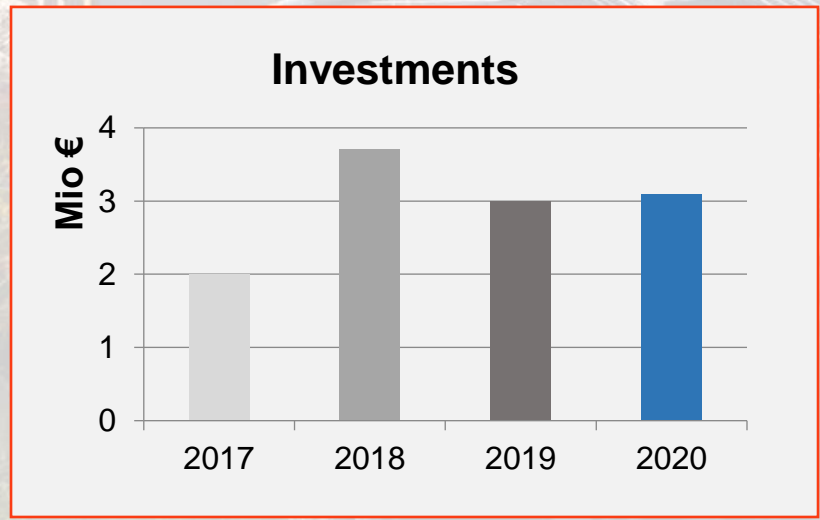
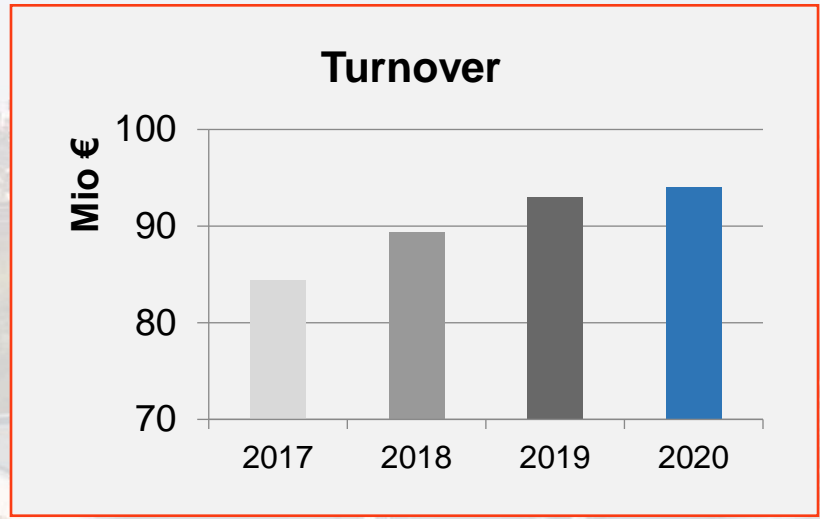
DLB  
OBERVIECHTACH

Manufacturer of:

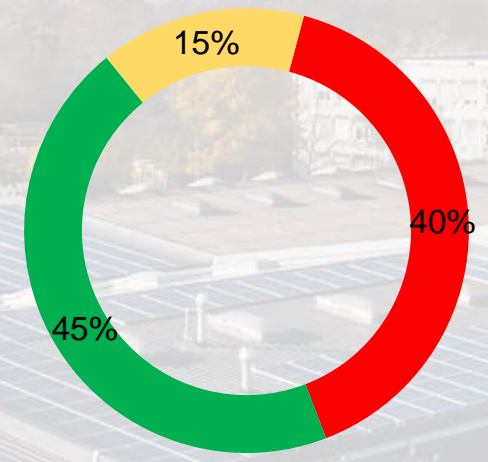
- Strands and ropes
- Acquired 2018
- 130 Employees



# Key figures KBE Berlin | KBE Tunisie



### Turnover distribution by industry



■ Solar



■ Automotive



■ Household appliances



# KBE Solar – Worldwide References

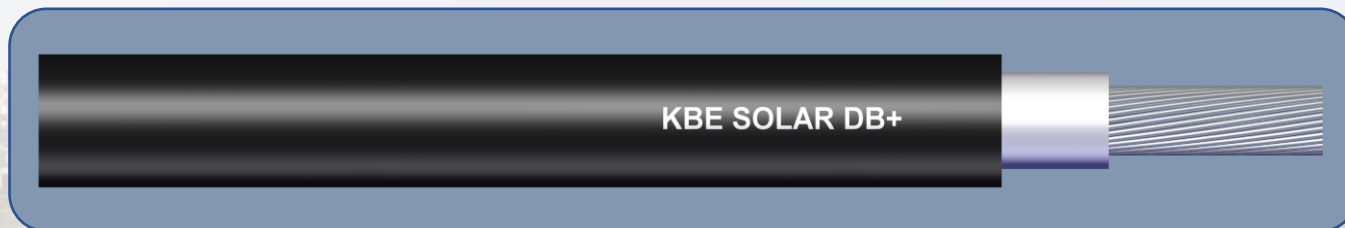


Installed in over  
70 countries!

# Power Plants – Powered by KBE



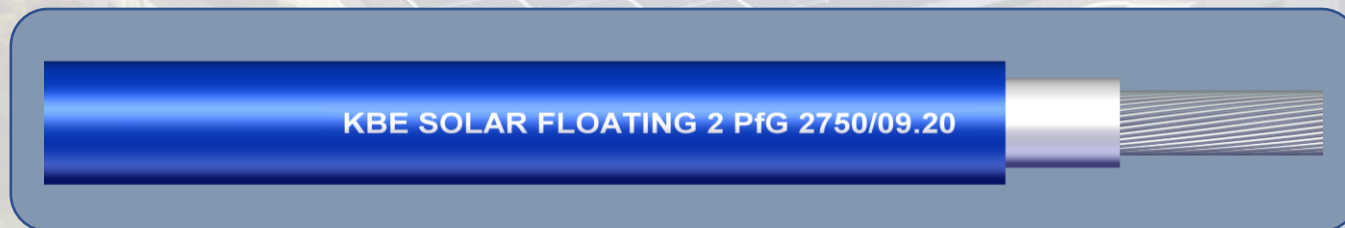
# KBE Solar Product Range



Established standard:  
Our triple certified  
highrunner






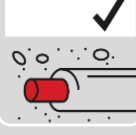

Optional DB+ Upgrade:  
Anti Rodent &  
Termite resistant











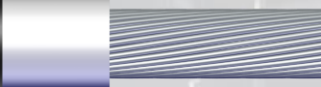
**NEW:** TÜV-certified  
Floating-PV solution

# KBE Solar DB+

Our USPs are your advantage:

	<p><b>TRIPLE CERTIFIED BY TÜV RHEINLAND</b>          EN 50618 (H1Z2Z2-K)   IEC 62930 (62930 IEC 131)   2 PfG 1169/10.2019 (PV 1500-K)</p>
	<p><b>HIGHER UV RESISTANCE THAN H1Z2Z2-K</b>          long-term UV resistance with min. of 2.000h (TÜV 2 PfG 1169/10.19)</p>
	<p><b>FIRE CLASS D<sub>CA</sub>(DOP)</b>          Tested and certified in accordance with EN 50575:2014</p>
	<p><b>DIRECT BURIAL</b>          High class materials resisting even strong environmental impacts underground</p>
	<p><b>HIGHEST WATER RESISTANCE (AD8)</b>          Voltage at 1 kV on cable in water at 50°C during 100 days without any break</p>

	
<p>Tear resistant</p>	<p>Expected lifetime 25 years</p>
	
<p>Halogen free acc. EN 50525-1, Annex B</p>	<p>Insulation resistance</p>
	
<p>reduced smoke opacity</p>	<p>flame retardant</p>
	
<p>impact resistant</p>	<p>resistance to extreme temperatures</p>



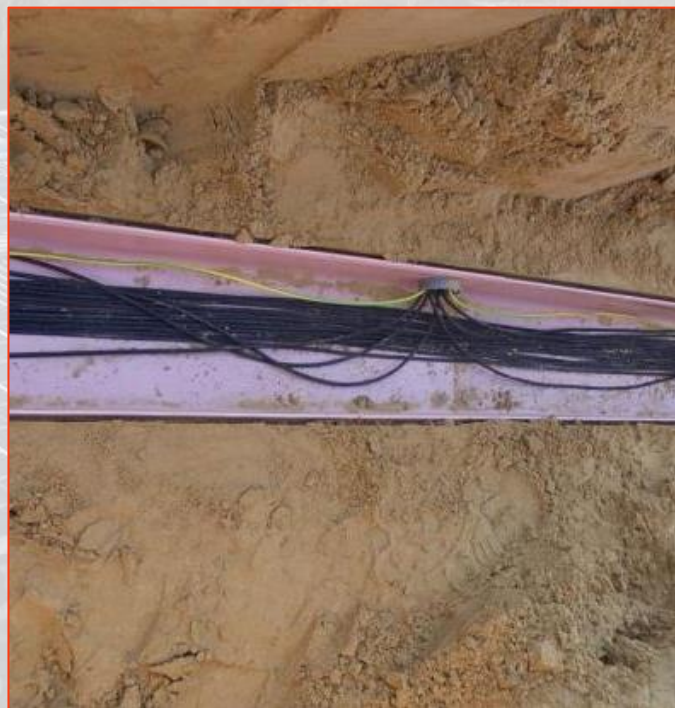
# Typical Problems in Power Plants



Ground and condensation water leads to permanent humidity



Water and sand can gradually penetrate empty conduits....



...and can damage solar cables



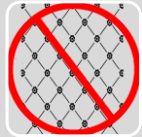


# KBE Solar DB+ AR + TR



## HIGHLY EFFECTIVE ADDITIVE

Reliability proofed by independent laboratories (i.e. by BAM)



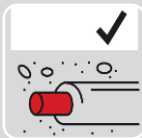
## No Steel Braiding

Easy to handle & cost reduction



## TRIPLE CERTIFIED BY TÜV RHEINLAND

EN 50618 (H1Z2Z2-K) | IEC 62930 (62930 IEC 131) | 2 PfG 1169/10.2019 (PV 1500-K)



## DIRECT BURIAL

High class materials resisting even strong environmental impacts underground



## HIGHEST WATER RESISTANCE (AD8)

Voltage at 1 kV on cable in water at 50°C during 100 days without any break

## Additives

AR = Anti – Rodent

TR = Termite – Resistance



# KBE Solar DB+ AR + TR

## Steel Braiding

- Reduced flexibility and bendability
- increased environmental impact
- Economic impact



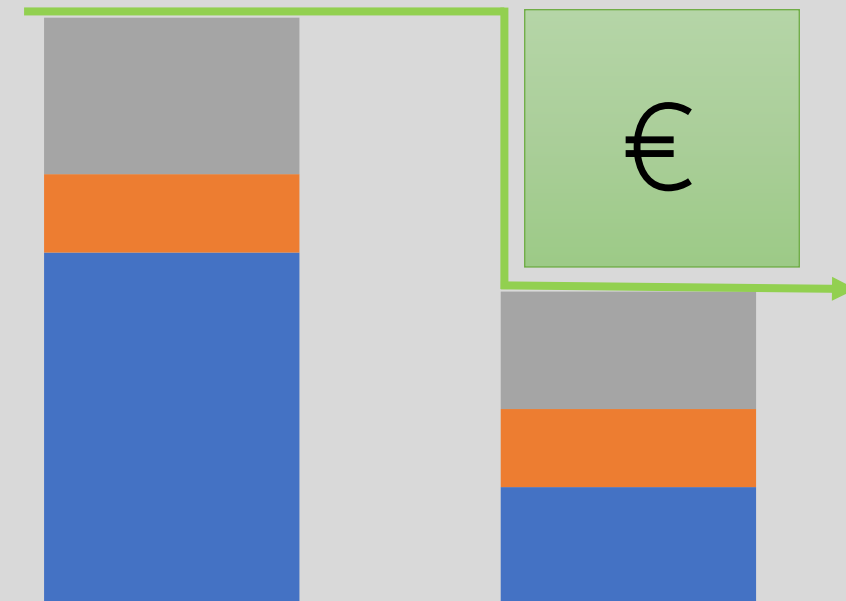
## DB+ TR+AR (Additiv)

- Non-toxic
- Climate-friendly
- Cost-effective
- Equally suitable for roofs and power plants



## Total Cost Ownership

■ Procurement costs ■ Maintenance ■ Disposal



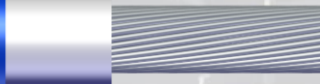
STEEL BRAIDING

DB+ AR + TR

# KBE Floating Solar



KBE SOLAR FLOATING 2 PFG 2750/09.20



power in wire and cables

# Challenges for FPV systems



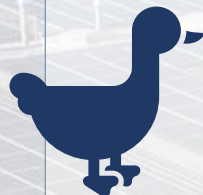
Permanent motion



Water & moisture



Salt & salty materials from the water



Environmental influences by animals and plants



Winds and storms



Enhanced requirements on material and components

# Advantages of KBE Solar Floating

TÜV Rheinland + KBE designed first official test methods for floating PV!



2 Pfg 2750/09.20 TÜV certified



Durable surface



High water resistance



Good workability / stripability



High insulation resistance



High flexibility / high bendability



Saltwater resistance



Flame retardent



UV- and weather resistance



Halogen-free

# Colors and Packaging



Colors: Black/ Red / Blue



Spools: 500 m up to 4000 m

Rings: 100 m



Packaging: Wood (500m/1000m)  
Plastic (> 1000m)



# Quality

## KBE - Berlin

### IATF 16949:2016



### ISO 9001:2015



## KBE - Tunisie

### ISO 9001:2015



### ISO 14001:2015



### IATF 16949:2016



Our Q-goal: To achieve a zero-error policy at all process levels through continuous improvement.

# Summary of the main Facts

**KBE offers you...**

**...triple certified solar cables**

**...quality „made in Germany“**

**...a reliable fire class**

**...best security for direct burial use**

**...usability for floating system**

**...anti termite/rodent options**

**...higher UV resistance than H1Z2Z2-K market standard**

**...reliable delivery dates and export service and know how**



# Contact

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