

**German electrical contractors &
the E-Haus at Light + Building 2024**



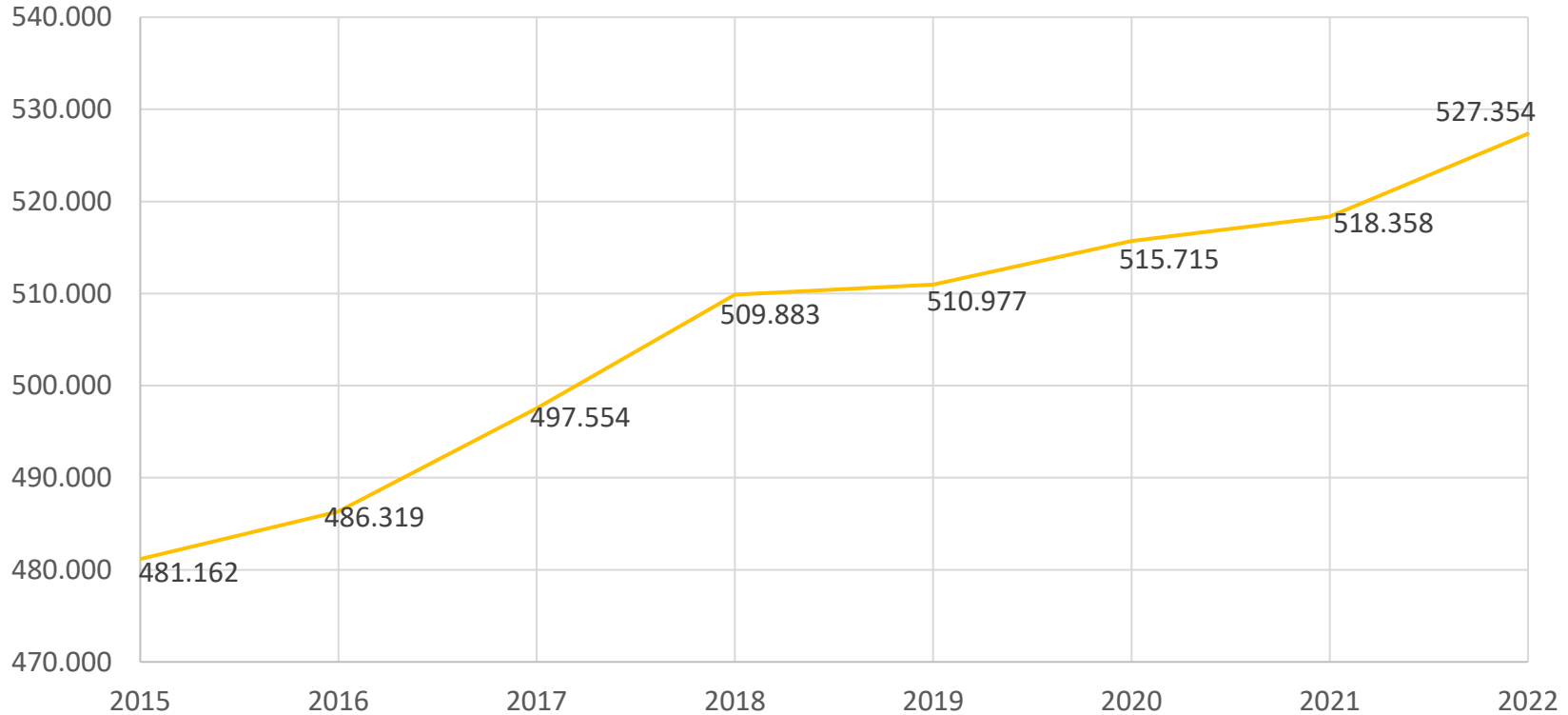
Key economic data



- Turnover: 81,4 billion € (+12,7%)
- Employees: 527.354 (+1,8%)
- New apprentices /new contracts: 15.521 (+2,6%)
- Apprentices /youngsters in training: 45.967 (+0,3%)



Key figures: Employees (2015 – 2022)





Growth factors

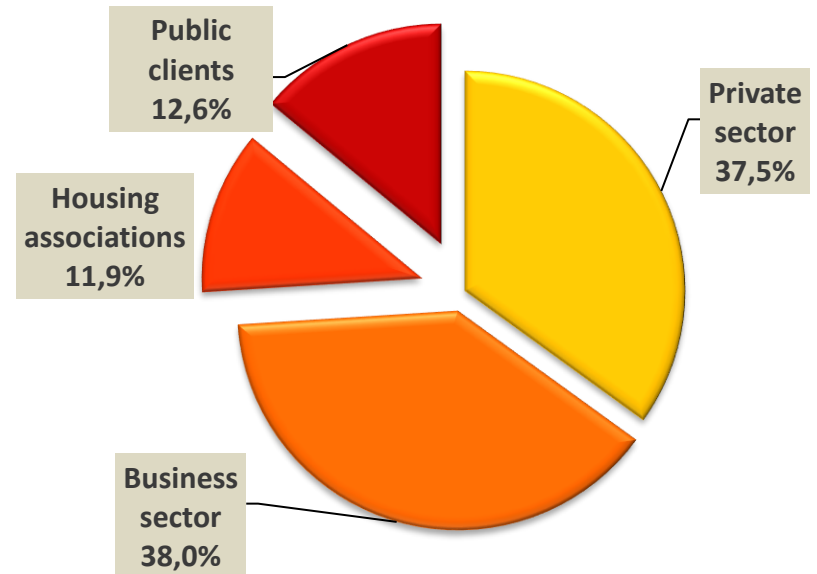
German electrical trade benefits from ...

- Embracing digitalization
- Participation in the energy transition and the associated electrification efforts



Future prospects

- Most of our companies have an order lead time of 2 - 4 months, despite the crisis in the German construction sector!
- Business climate index at 83,6 points (best score in 2019 = 89,4 points)
- Positive prospects for the future
- Customer diversification ensures resilience



Energy transition contributions

Out of 50.000 electrical trade companies ...

- 85 % install e-mobility charging infrastructure
- 50 % install solar systems
- 33 % install heatpumps

Renewable energies make up 6.7% of the turnover for electrical trade companies.
PV sector is showing the highest performance.

The total of companies engaging in these sectors is steadily increasing!



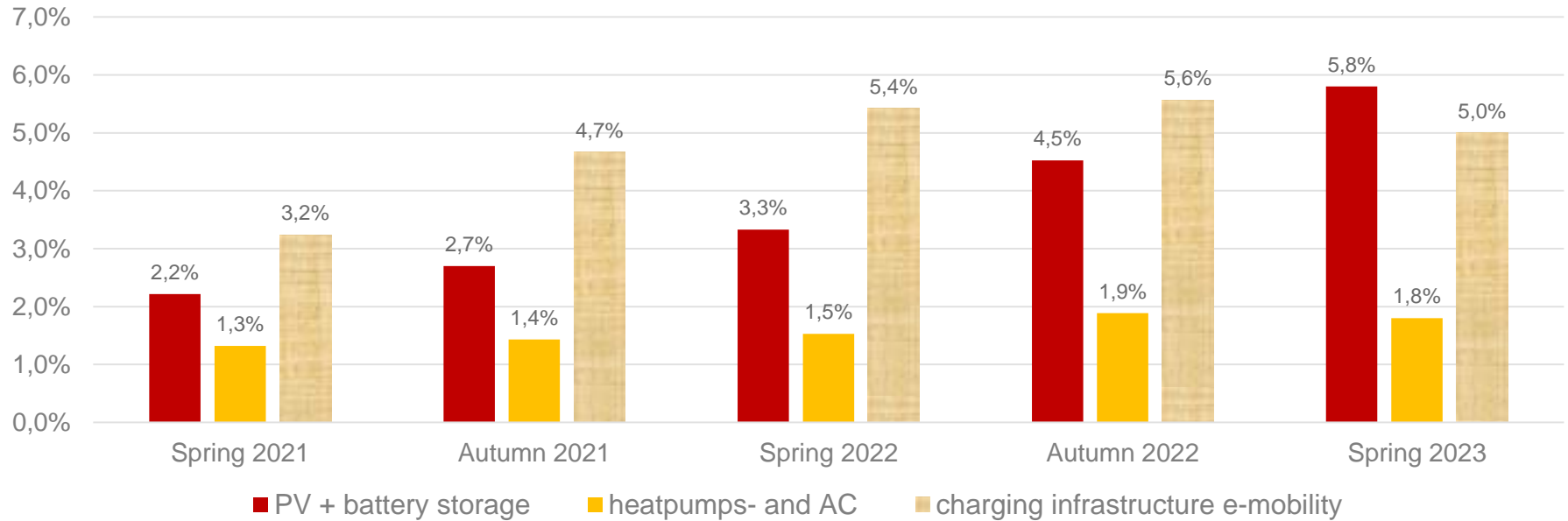
Contribution towards the energy transition in 2022

- **220.000 solar systems** (= 59 % of 375.00 solar systems installed in 2022)
- **180.000** out of 214.000 **battery storages** installed by electrical contractors
- **510.000 charging stations** with 600.000 charging points
- Involved in installation of **60.000 heat pumps**





Development of e-trade revenue in renewables





Light + Building 2024

Focusing on System Technology



The building as a system

- Energy transition redefines the role of buildings.
- Contemporary construction not only consumes energy but also has the capacity to store and generate it.
- The combination of electrification and digitalization allows for a holistic perspective on buildings as integrated systems (cross sector linkage)

The consequences:

- Connection of various technologies > PV, heat pump, storage, charging infrastructure
- Various trades collaborating and expanding together (electrical contractors, Roofers, Plumbing, Heating, Air Conditioning etc.). **New and emerging climate trade. New Cooperations!**
- New profession started by ZVEH in 2021: Elektroniker/-in für Gebäudesystemintegration. **Expert for integration of systems/building system integrator!**



Light+Building: system technology at the center

- Light + Building embraces this trend by showcasing all facets of building technologies.
- The increasing involvement of manufacturers from diverse sectors mirrors the growing emphasis on interdisciplinary collaboration.
- Fair scores with growing offer in sectors like electrical charging infrastructure, heat pumps, storage, solar systems
- The more dynamic and multilayered the building industry becomes, the more important becomes the World's Leading Trade Fair.
- Fair has the character of One-Stop-Shop for electrical and other climate trades.
- Forum for exchange and interdisciplinary work.



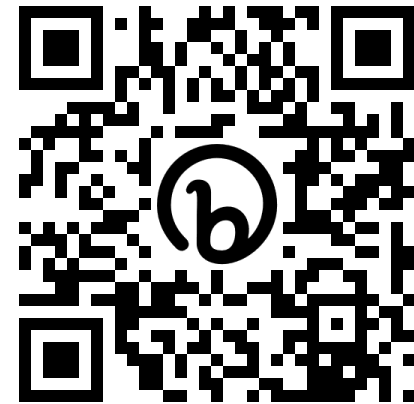
E-Haus OF ZVEH





The smart E-Haus

- Prime example of a futuristic building
- Shows the broad range of smart and sustainable technologies and the installation skills of electrical contractors
- **Cross sectoral linkage due to the use of**
 - PV as a source of renewable energy
 - Storage
 - Charging infrastructure for electric vehicles
 - Heat pump
 - Energy management systems



Take a quick glance at our promo movie!



- **Crash Detection Device:** A floor sensor equipped with automatic fall and inactivity detection, triggering an immediate alarm and emergency call for assistance
- **Breathing Air Monitoring:** Specifically designed for diabetes patients, this system continuously monitors breathing air quality and issues an alert, summoning help when critical air values are detected.
- **Moveable cabinets** (gestures/voice control)
- Daylight-dependent lighting control (**Human Centric Lighting**)
- Mirrors which function as heaters
- Access control for more security
- Voice control without external cloud (data remains in the house and is not available in the cloud)



E HANDWERK
Elektro • Energie • Digital



Das  macht die Zukunft.

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Light + Building 2024

Exhibition booth of the electrical trade





Six days filled with an engaging agenda



„Architektenforum“ – a special event format for architects, engineers, housing industry and facility management with a changing focus topic. Visitors can inform themselves by listening to different presentations.



"Smart Living Professional Awards: Every two years, three companies that have successfully executed exceptional projects in the Smart Building sector are honored as part of the Light + Building event.



Specialized Presentations: Each day, at the booth of the German electrical contractors, informative talks are conducted on various subjects including standardization, youth training, and continuing education.



Thanks for your attention!

Maren Cornils

Press Officer

m.cornils@zveh.de

Telefon: 069 24 77 47 28