



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

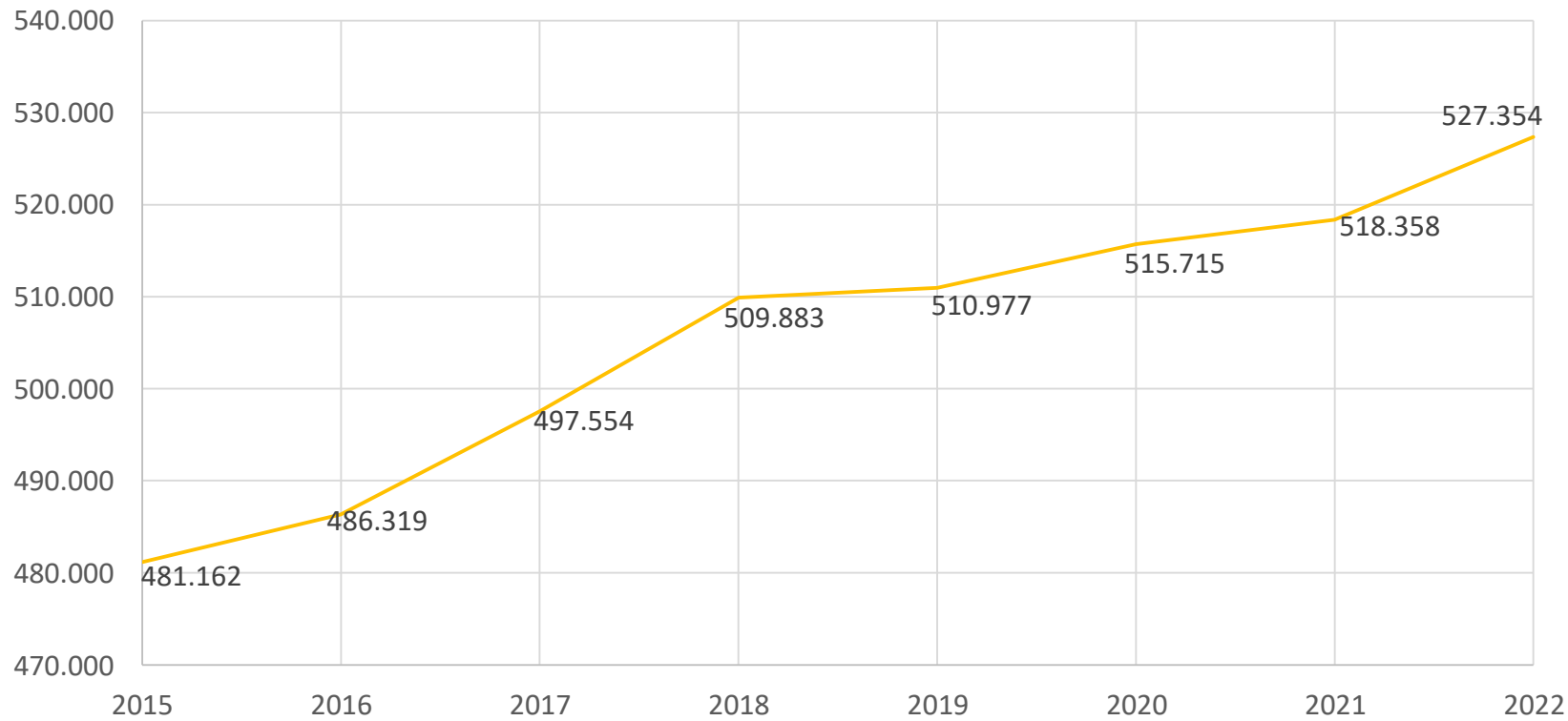
# Key economic data



- 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)





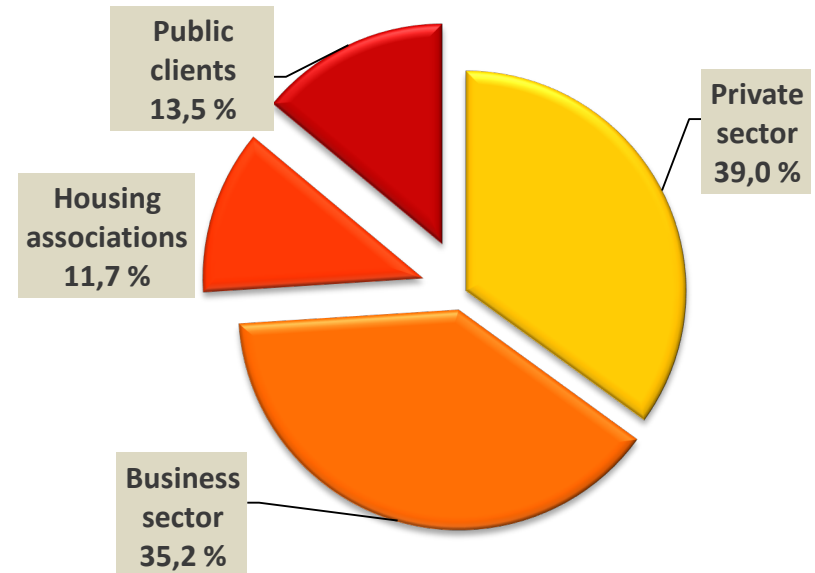
# Growth factors

## German electrical trade benefits from ...

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

# Future prospects

- Most of our companies (53,3\* %) have an order lead time of 2 - 4 months, despite the crisis in the German construction sector!
- Business climate index at 80,0\* points
- Positive prospects for the future
- Customer diversification ensures resilience



\* ZVEH Autumn Economic Survey 2023





# Energy transition contributions

Out of 50.000 electrical trade companies ...

- 70 %\* installed e-mobility charging infrastructure within the last 6 months
- 42,2 %\* installed solar systems ...
- 40 %\* installed heatpumps ....

Renewable energies make up 8.2 %\* 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!**

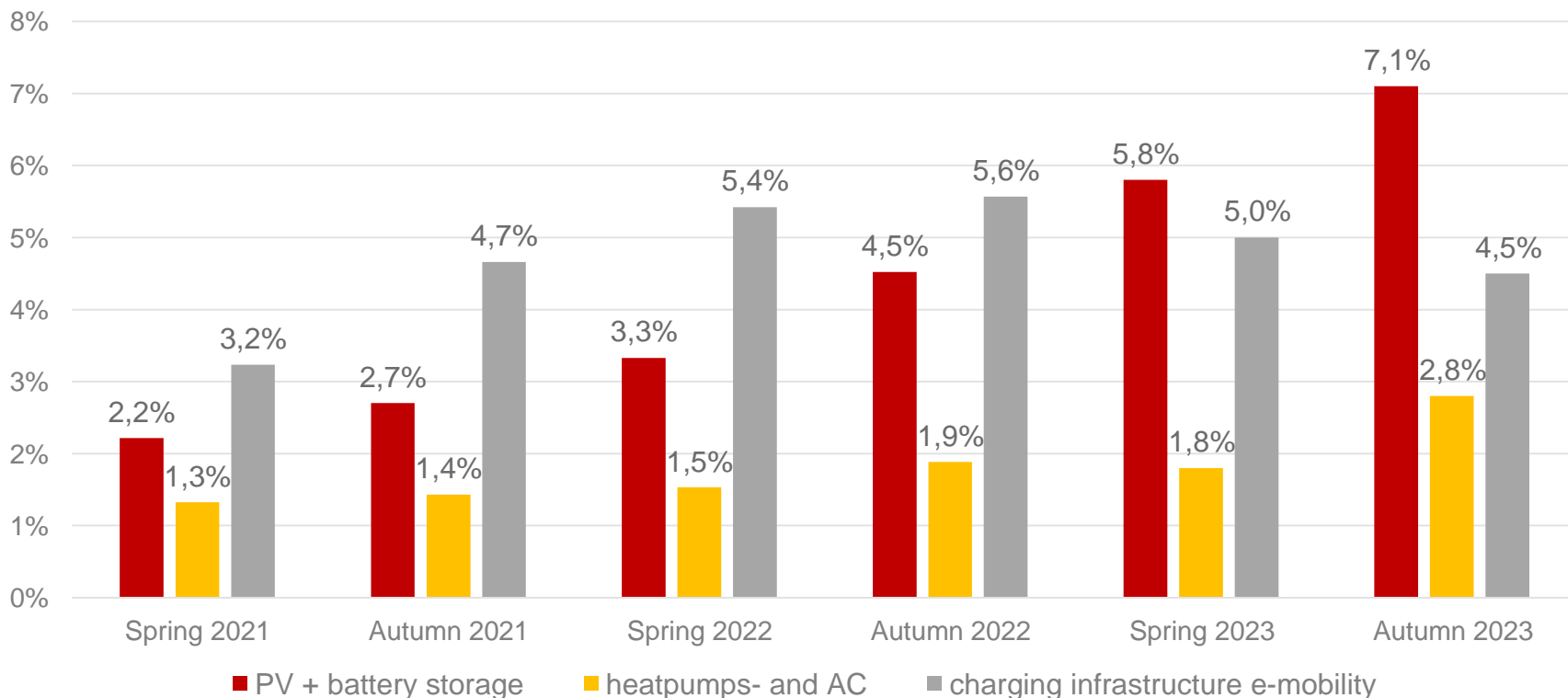
# Contribution towards the energy transition in 2022

- **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\*

**ZVEH**  
Elektro · Energie · Digital



\* ZVEH Autumn Economic Survey 2023



# 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.







# 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)





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!**

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