

# WORKING GROUPS

The Industry Alliance VHPready e.V. lives from its members and their active commitment. In working groups, the technical functionalities and application scenarios of the standard are developed. Furthermore testing and certification processes are modelled as well as positions and strategies of the Industry Alliance for public relations are designed.

There are currently three different working groups, each of them is headed by one member from the industry. The topics and organisation are determined jointly by the members in order to achieve the greatest possible benefit for all.



**WG1** ADVANCEMENT OF VHPREADY

**WG2** CERTIFICATION AND PREQUALIFICATION

**WG3** INTERNATIONAL MARKETING AND STANDARDIZATION

# SERVICE COMPANY

VHPready Services GmbH is the operative arm of the Industry Alliance. It supports the implementation and international dissemination of the open industrial standard VHPready by extending the network, events, publications, etc.

Based on test specifications and together with partner laboratories, the company will carry out attestations in accordance with VHPready. Test and reference systems will be available.

VHPready Services GmbH provides services on request, e.g. training courses and workshops regarding the implementation of VHPready standard into customer system environments.

Industry Alliance VHPready e.V.



VHPready Services GmbH



## CONTACT US



EUREF-Campus 13  
10829 Berlin



**p:** +49 30 39887441  
**f:** +49 30 39839800  
**e:** info@vhpready.de  
**h:** www.vhpready.de



**INDUSTRY ALLIANCE**  
VHPready e.V.

www.vhpready.com

# ABOUT US

The Industry Alliance VHPready e.V. promotes the energy transition („Energiewende“) by working on standard interfaces and protocols for decentralized networks of energy systems.

The VHPready standard ensures the seamless and economic cooperation of all components.

VHPready provides the basis for the flexible integration and aggregation of decentralized energy systems within Virtual Power Plants and Smart Grid Applications.

# BENEFITS AT A GLANCE



Save time and money in the construction and expansion of Virtual Power Plants



High reliability – binding descriptions of functional interfaces



System compatibility and limited costs for system components



Simplification and acceleration of pre-qualification

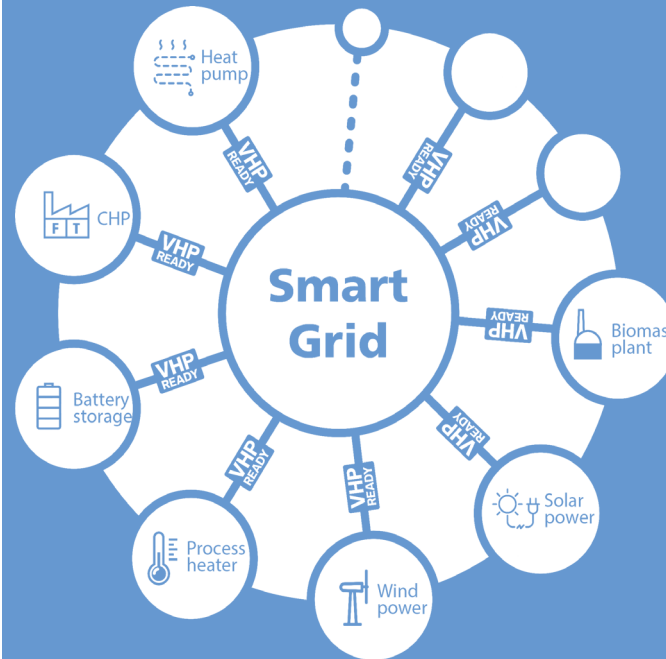


Preserve qualified business interests through participation in the development

Promote market development in Smart Grids

# SPECIFICATION 4.0

With the VHPready 4.0 specification a field-tested solution is being further developed. In close cooperation of several experts from areas of energy production, energy transport and distribution, energy trade as well as automation and communication technology the foundation for a standardized network of decentralized energy systems was defined.



The following types of systems are currently supported:

- |                                |               |
|--------------------------------|---------------|
| Battery storage                | Buffer tanks  |
| Combined heat and power plants | Solar systems |
| Electric heaters               | Heat pumps    |
| Boiler tanks                   | Wind turbines |
| Process heaters                |               |

# TECHNICAL ASPECTS

Internet and IEC-based communications and security functions

TCP/IP, TLS 1.2, SNTP/NTP, IEC 61850-7-420, IEC 60870-5-104



**INDUSTRY ALLIANCE**  
VHPready e.V.

- // Support of decentralized energy production systems, storage systems and controllable loads
- // Basis for the VHPready certification
- // Based on well-established and accepted standards from energy industry and automation engineering
- // Open for functional enhancements and new markets