

# EA – ENERGY SYSTEMS AND DRIVETRAIN

## THE POWERTRAIN COMPETENCE CENTER



## YOUR GLOBAL MOBILITY ENGINEERING EXPERTS

Achieving the necessary sustainability goals is a big focus in the mobility industry. Most important therefore? The openness to technology. Different concepts might fit different technological approaches. When we talk about alternative powertrains, there are multiple concepts in mind. Hydrogen Internal Combustion Engine (H2ICE), Fuel cell and cryogen hydrogen, HV battery storage, E-Drive, as well as different hybrid concepts.

### Our portfolio:

- Powertrain system design
- E-Drive
- HV battery
- Fuel cell & hydrogen storage integration (350 & 700 bar + cryogenic)

The efficient integration of a powertrain and storage system is possible through in-depth whole vehicle knowledge of EDAG experts across industries.

### Our competencies:

- Strategy, concept & package
- System design from level 0 for powertrains
- Requirement management & definition
- Design, system & function development
- Thermal & airflow management
- Attribute management (e.g. aero, energy, ...)
- Energy management 1.0 to 4.0
- E-Drive development incl. power electronics
- Component and system integration & simulation

- HV battery development (Cell2X)
- Weight management
- System and complete vehicle testing & validation (including H2 leakage tests)
- Prototyping & small series production & tooling
- Commissioning
- Legal requirements, norms & standards
- Supplier network services
- Fleet services: fleet support and fleet data management for H2
- Further innovation projects

### Applications suited across industries:

- Passenger cars
- Shipping industry
- Commercial vehicles: medium and heavy duty, busses
- Light commercial vehicles (LCV)
- Off-road & mobile working stations
- Agriculture
- Rail
- Aeronautics
- Stationary applications
- Special vehicles

### Contact our experts:

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