

# SHIFT to Direct Current



## The Four Demonstrators

### Buildings

France

The real-life commercial building demonstrator will be developed in France. The planned DC infrastructure will supply all DC compatible power needs of the building including the connection of PV system, DC/DC EV charging stations, heat pumps, a battery energy storage system as well as the traditional loads.



### Data Centre

The Data Centre Demonstrator located at the premises of Bachmann (Germany), will be set up in a container, housing two different compartments both supplied by the same DC distribution grid.



### Ports

Madeira, Portugal

The Port Demonstrator will be implemented in Funchal (Madeira Island) and has two main objectives: to study the potential of DC in Ports by leveraging a Digital Twin of the Funchal Port and to analyze user perspectives.



### Industry

Germany

The industry demonstrator will be performed at EATON/RWTH, where MVDC connection and protection systems will be demonstrated, and in PHOENIX, where LVAC/LVDC interface will be tested.



#### Coordinator



#### Consortium



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#### DC Foundations



#### Associated Partners



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