

PORTFOLIO FOR CLIMATE-NEUTRAL SOCIETY & MOBILITY



Coordination of support programmes, technology advice, networking

National Innovation Programme

For hydrogen and fuel cell technology



Electro Mobility on Site



National Center for Charging
Infrastructure



Mobility and Fuels Strategy



National Hydrogen Coordination Office



Promotion of Commercial Vehicles with Alternative

Drives within the Energy & Climate Fund

Promotion of Renewable Fuels

within the Energy and Climate Fund



National Networking of Competence

For Sustainable Mobility (NaKoMo)



Improving mobility in rural areas

to create equivalent living conditions (MogLeb)



Digitalisation of Local Transport Systems



Export
Initiative
for
Environmental
Technologies



Mission
Innovation _
Hydrogen
Mission



Promotion of Alternative Drives

for bus and rail transportation

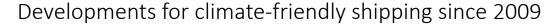


LNG-Bunker Vessels

Measure of BMWK from the economic stimulation package



INNOVATION CLUSTER - E4SHIPS







GOAL: TECHNOLOGY DEVELOPMENT - KNOWLEDGE TRANSFER - REGULATIONS DEVELOPMENT

Elektra 2

RiverCell 2

SchIBZ 2 & MultiSchiBZ

PaXell 2











NT-PEM

Hydrogen

HT-PEM

SOFC

HT-PEM

Methanol

Diesel & LNG

Methanol

Sea





OVERALL CONCEPT FOR RENEWABLE FUELS

BMDV funding strategy



PILLARS I AND II: Development and demonstration

Funding guideline for R&D on renewable fuels

- published
- active until 2024

Development platform for PtL fuels

selection process is currently ongoing



PILLAR III AND IV: Production and market ramp-up

Funding guideline for investing in fuel production

- Publication is not expected before end of 2022/ beginning of 2023
- EU notification pending

Funding guideline for market uptake of PtL-kerosene

- Planned publication end of 2022/ beginning of 2023
- EU notification pending

PILLAR I: FUNDING GUIDELINE FOR R&D ON RENEWABLE FUELS



GOAL

- Development and demonstration for the production of renewable fuels (electricity-based fuels and advanced biofuels)
- Feasibility studies, innovation clusters and innovation support services

SCOPE



Further development and opt

Current evaluation ongoing:

Special Call - Development of Renewable Ship Fuels



Coupling biofuels and E-Fuels production

KRAFTSTOFFE



Optimisation of existing production processes

e.g. decoupling of multi-stage processes



Liquid and gaseous biofuel production

Further development and optimisation



Innovative electrolysis technologies

e.g. in combination with e-fuel systems



Development of CO₂ negative fuels

e.g. storage of process-related carbon



OUTLOOK FOR FURTHER DEVELOPMENT OF E4SHIPS







Enlarging the scope of e4ships by merging the on-board fuel cell energy perspective with the renewable fuel perspective to ensure and to strengthen the energy transformation and further application of fuel cells in maritime applications on the way to climate-friendly shipping.

