



CAIPIR|NH₃A

COMBUSTION OF LIQUID AMMONIA, ASSISTED BY PLASMA DISCHARGES,
AS A NOVEL & CLEAN ENERGY CONVERSION METHOD

CAIPIRINH₃A DETAILS

Start Date: 1 November 2024

Duration: 4 years

EU Contribution: ~ € 2.5M



Funded by
the European Union

Funded by the European Union under the GA number 101191768. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.



Copyright ©

Development of the next generation Liquid-Ammonia (NH₃) combustion system to revolutionise the transportation & energy production sectors.



#CAIPIRINH3A
info@caipirinh3a.eu

METHODOLOGY



NH₃ combustion
kinetic model with
plasma-induced
effects.



Combustor prototype
followed by extensive
testing (TRL4).



Efficient & stable
NH₃-adapted plasma
systems.



Fuel injection,
combustor
components & active
control strategies.



Sustainability, economic
viability & market
uptake studies.



CERTH
CENTRE FOR
RESEARCH & TECHNOLOGY
HELLAS



Funded by
the European Union

Funded by the European Union under the GA number 101191768. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.



Copyright ©