



Bu proje Avrupa Birliği ve Türkiye Cumhuriyeti tarafından finanse edilmektedir
This project is co-funded by the European Union and the Republic of Türkiye

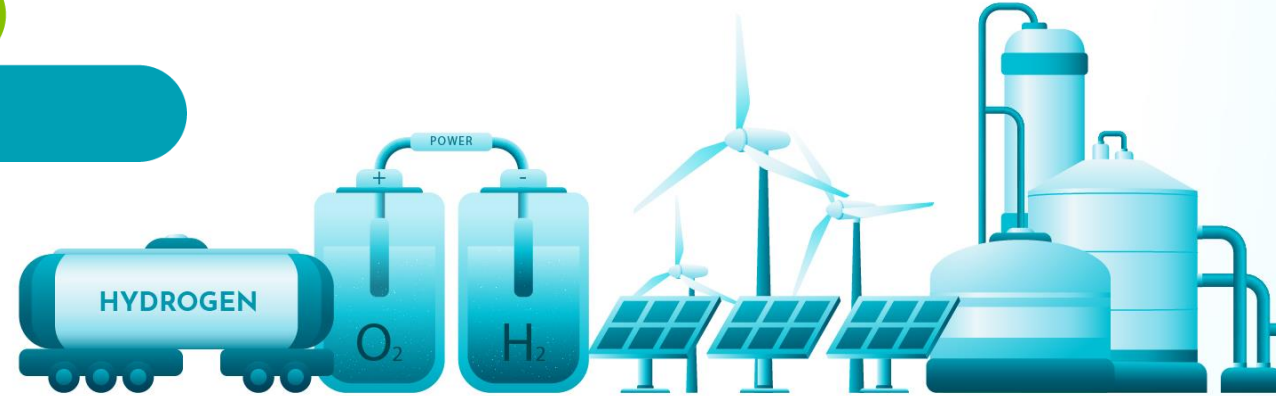


International Brokerage Event on Clean Hydrogen Partnership 2024 Call

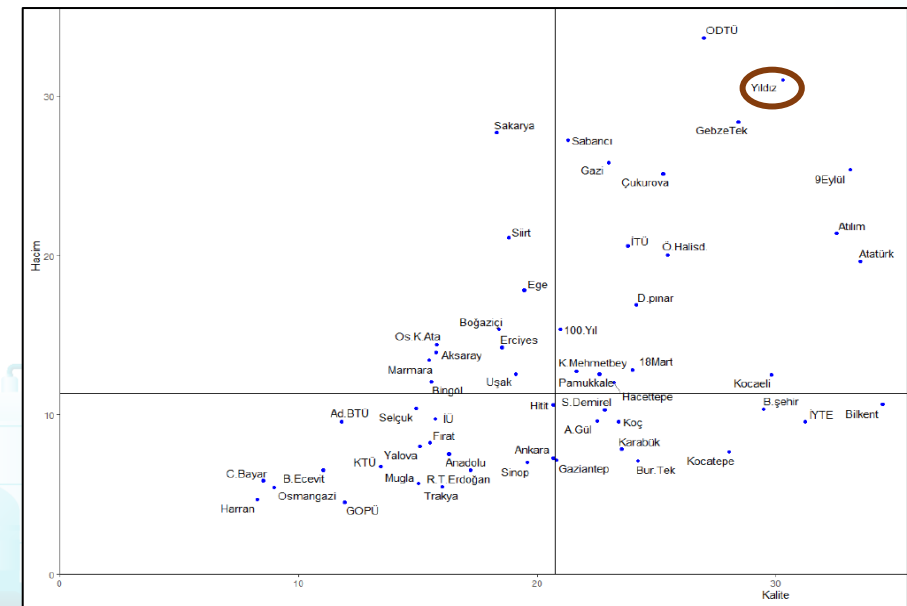
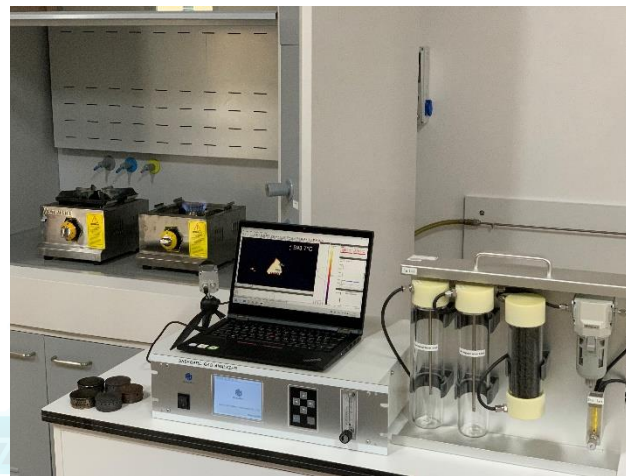


Online

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Description of the Organization

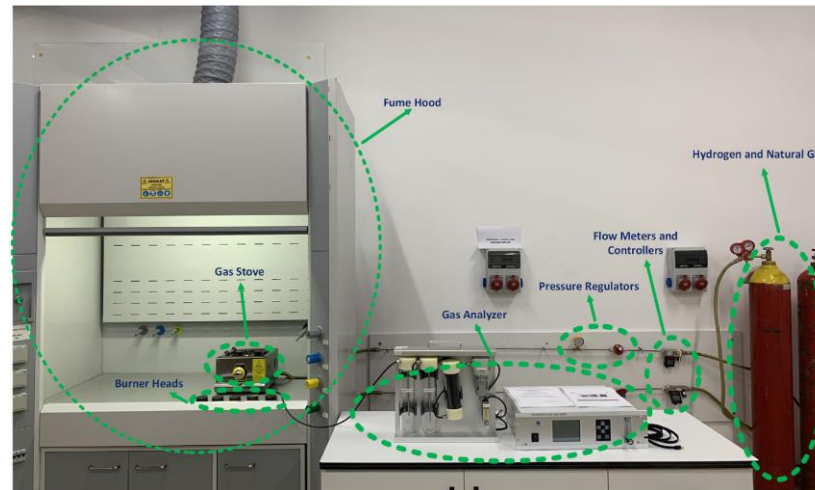
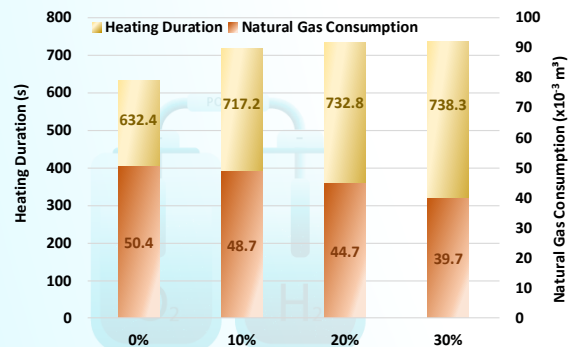
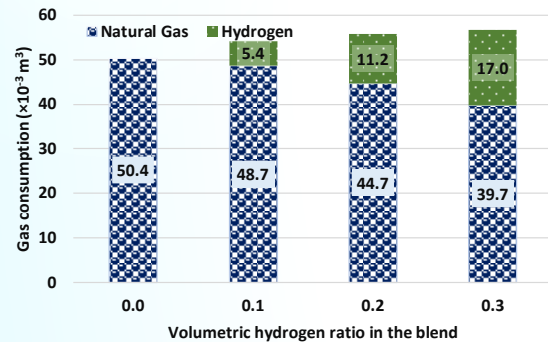


The research interest can be defined as following:

A Promising Hydrogen End Use Option for Clean Heat and Power: Hydrogen and Natural Gas Blend

Save 8% of NG with 20% of H₂ but Increase in heating time: 15.87%

Increase in LHV (mass-based): 4.2% but decrease in density: 16.9%



Our papers on hydrogen and natural gas blend-based systems in Q1 Journals:

<p>Contents lists available at ScienceDirect</p> <p>Energy Conversion and Management</p> <p>journal homepage: www.elsevier.com/locate/enconman</p> <p>Development and performance assessment of a calcium-iron bromide cycle-based hydrogen production integrated system</p> <p>Fatih Sorgulu ^{a,*}, Ibrahim Dincer ^{b,a}</p>	<p>Contents lists available at ScienceDirect</p> <p>Fuel</p> <p>journal homepage: www.elsevier.com/locate/fuel</p> <p>Full Length Article</p> <p>Thermoeconomic and impact assessments of trigeneration systems with various fuels</p> <p>Fatih Sorgulu ^{a,*}, Ibrahim Dincer ^{b,a}</p>
<p>Contents lists available at ScienceDirect</p> <p>Energy</p> <p>journal homepage: www.elsevier.com/locate/energy</p> <p>A solar energy driven thermochemical cycle based integrated system for hydrogen production</p> <p>Fatih Sorgulu ^{a,*}, Ibrahim Dincer ^{b,a}</p>	<p>Contents lists available at ScienceDirect</p> <p>Applied Thermal Engineering</p> <p>journal homepage: www.elsevier.com/locate/aptherm</p> <p>Development and assessment of a biomass-based cogeneration system with desalination</p> <p>Fatih Sorgulu ^{a,*}, Ibrahim Dincer ^{b,a}</p>
<p>Contents lists available at ScienceDirect</p> <p>Chemosphere</p> <p>journal homepage: www.elsevier.com/locate/chemosphere</p> <p>An experimental study on the environmental impact of hydrogen and natural gas blend burning</p> <p>Merve Ozturk ^{a,*}, Fatih Sorgulu ^{a,b}, Nader Javani ^{a,b}, Ibrahim Dincer ^{c,a}</p>	<p>Contents lists available at ScienceDirect</p> <p>Energy</p> <p>journal homepage: www.elsevier.com/locate/energy</p> <p>Development of a hythane based cogeneration system integrated with gasification and landfill subsystems</p> <p>Fatih Sorgulu ^{a,*}, Ibrahim Dincer ^{b,a}</p>
<p>Available online at www.sciencedirect.com</p> <p>ScienceDirect</p> <p>journal homepage: www.elsevier.com/locate/he</p> <p>Analysis and techno-economic assessment of renewable hydrogen production and blending into natural gas for better sustainability</p> <p>Fatih Sorgulu ^{a,*}, Ibrahim Dincer ^{b,a}</p>	<p>Available online at www.sciencedirect.com</p> <p>ScienceDirect</p> <p>journal homepage: www.elsevier.com/locate/he</p> <p>Experimental investigation for combustion performance of hydrogen and natural gas fuel blends</p> <p>Fatih Sorgulu ^{a,*}, Merve Ozturk ^a, Nader Javani ^{a,b}, Ibrahim Dincer ^{c,a}</p>
<p>Available online at www.sciencedirect.com</p> <p>ScienceDirect</p> <p>journal homepage: www.elsevier.com/locate/he</p> <p>Development of an integrated thermochemical cycle-based hydrogen production and effective utilization</p> <p>Fatih Sorgulu ^{a,*}, Ibrahim Dincer ^{b,a}</p>	<p>Contents lists available at ScienceDirect</p> <p>International Journal of Hydrogen Energy</p> <p>journal homepage: www.elsevier.com/locate/ijhe</p> <p>Experimental investigation of various burner heads in residential gas stoves tested with hydrogen and natural gas blends</p> <p>Merve Ozturk ^{a,b}, Fatih Sorgulu ^{a,b}, Nader Javani ^{a,b}, Ibrahim Dincer ^{c,a}</p>

Calls we are interested:

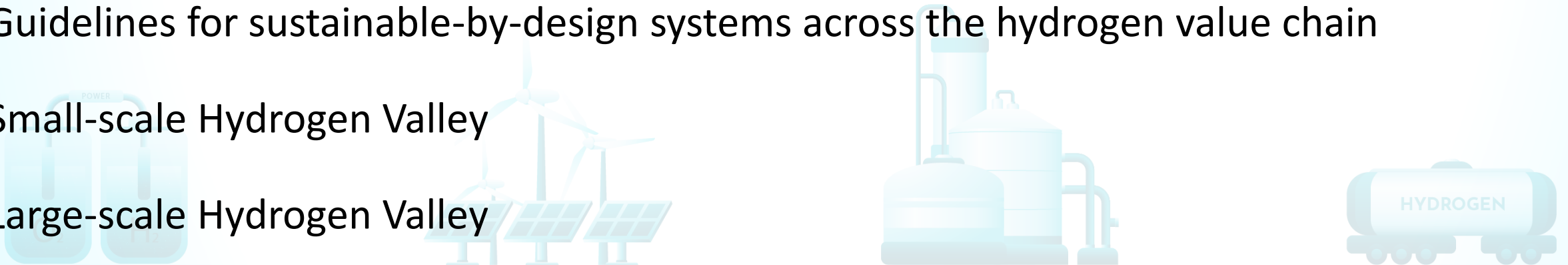
Hydrogen production and integration in energy-intensive or specialty chemical industries in a circular approach to maximise total process efficiency and substance utilization

Improved characterisation, prediction and optimisation of flame stabilisation in high-pressure premixed hydrogen combustion at gas-turbine conditions

Guidelines for sustainable-by-design systems across the hydrogen value chain

Small-scale Hydrogen Valley

Large-scale Hydrogen Valley





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