



## Hydrogen and decarbonization mission Torino- July 1° 2022

EDIS Srl (Group EGEA)



# EGEA

LA CASA DELLE BUONE ENERGIE



# EDIS

GREEN POWER

In collaboration with



And in collaboration with the Regional  
Innovation Clusters of Piemonte



per una crescita intelligente,  
sostenibile ed inclusiva  
[www.regione.piemonte.it/europa2020](http://www.regione.piemonte.it/europa2020)  
INIZIATIVA CO-FINANZIATA CON FESR



**Multiservices Company** – Energy & Environmental sectors

**Public-Private** Company based in Alba

**Leader of the Province of Italy**

**Glocal** (Global competence and Local focus)

**Presence throughout Italy** with over **28 services**

Over **30 plants** for the production of **renewable sources**

**"The House of Good Energy"**



**EGEA**

LA CASA DELLE BUONE ENERGIE

<b>Revenue:</b>	<b>1,5 Billion euros</b>
<b>EBITDA:</b>	<b>65 Millions of Euros</b>
<b>Public Partners:</b>	<b>over 110 municipalities</b>
<b>Private Partners:</b>	<b>over 100 companies</b>
<b>N. Employees:</b>	<b>1.600</b>



## Our activities

- *EDIS is the company belonging to the EGEA group specialized in solar energy development and production*
- *More than 260MW of agro-photovoltaic utility scale plants in pipeline*
- *Plants will be equipped with large scale battery energy systems and power to gas in order to produce green hydrogen from renewables*
- *The initiatives are located near the future national hydrogen transport network (also in blending with methane)*

### **EDIS current main projects in pipeline:**

- *50 MW Agro PV in Veneto, in Veneto, with up to 200 MWh of BESS capacity. Possible upgrade with 10MW electrolyser;*
- *90 MW Agro PV in Apulia, with 25 MW of electrolyzers and 50 MWh of BESS capacity;*
- *120 MW Agro PV in Tuscany, with 25 MW of electrolyzers and 50 MWh of BESS capacity;*

**Up to 460GWh/y energy production**

**Up to 3,6 Mkg/y green H<sub>2</sub>**

**Up to 171kton/CO<sub>2</sub>/y avoided**

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# What are we looking for

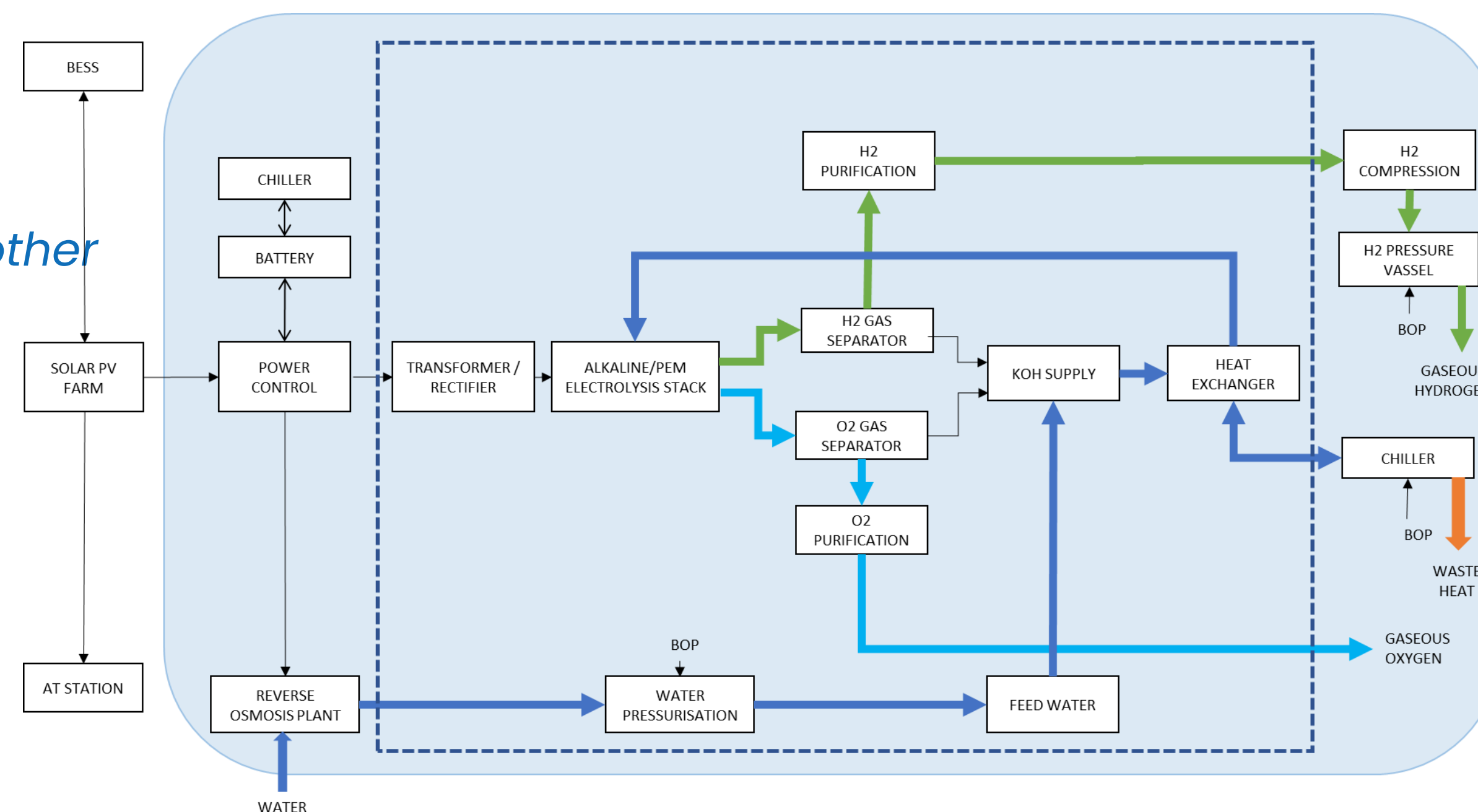
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*The presence of EGEA and EDIS in this meeting aims to show our developments of innovative projects, in order to attract companies with which to collaborate at different levels.*

*We would like to find in this meeting:*

- *Technology suppliers (electrolysers, pressure vessels and other components);*
- *Power management / control & SCADA (PV + BESS + PTG) suppliers;*
- *System designers and electrolysis experts;*
- *Co-investors;*
- *Green hydrogen off-takers, etc;*
- *Technical scientific partners (PNIEC / PNRR – IPCEI – NEXT GEN EU finance proposals....)*



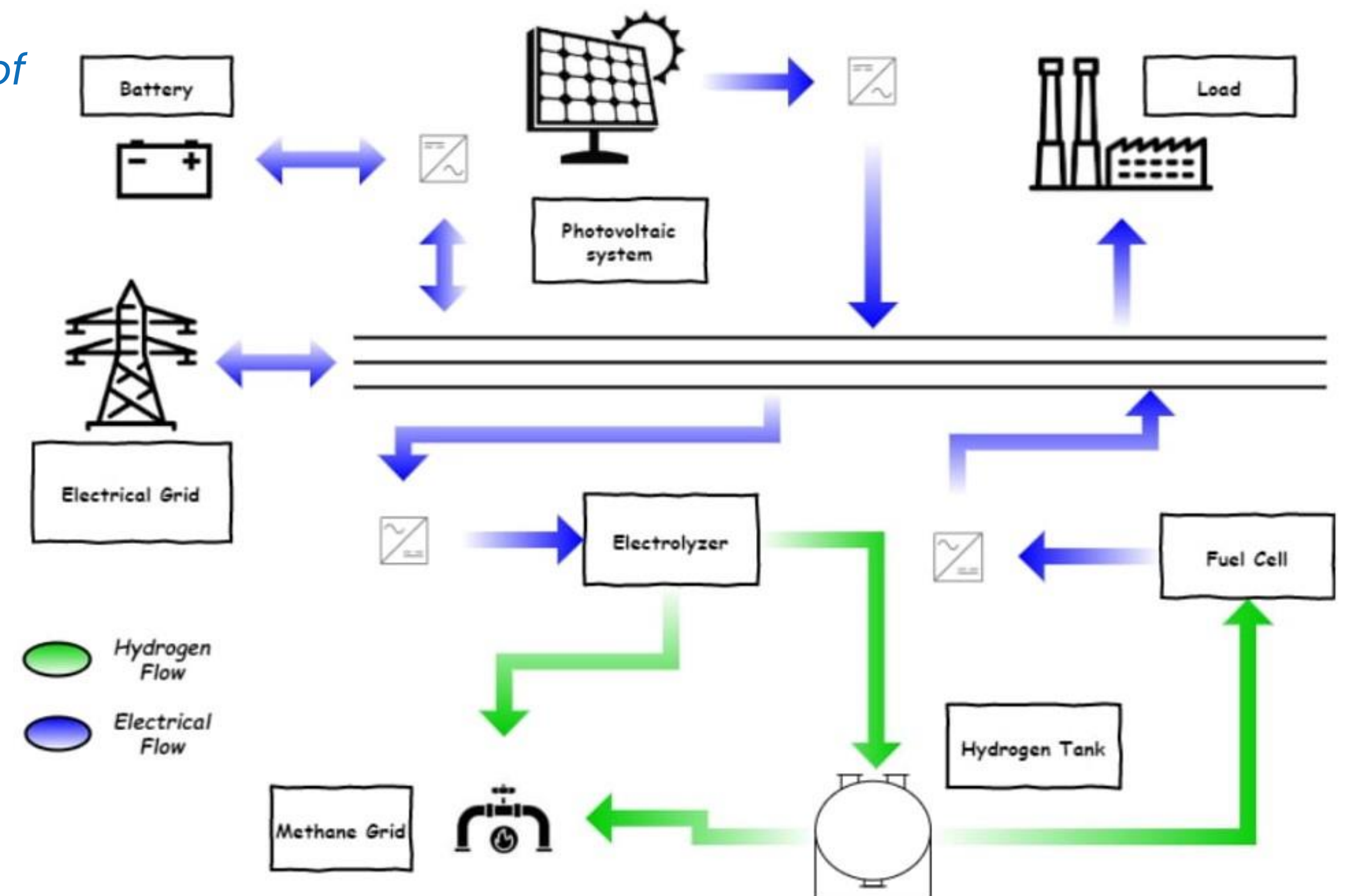


## What can we offer

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- *EDIS and Politecnico di Torino developed tools for the modeling and simulation of hydrogen-based energy systems .*
- *The main model allows the construction of Digital Twins (DTs ) of Hybrid Energy Networks. Such DTs rely on linear models.*
- *Mathematical Optimization of the DT is led via MILP solvers.*
- *Both economic and energetic specifications of the energy system are considered in detail.*
- *Electrochemical and Hydrogen storage can be exploited to perform arbitrage on commodity markets. Our model returns optimal power flows.*
- *The tool also outputs detailed economic projections to assess the feasibility of investments in utility-scale hydrogen systems.*
- *Our latest open reaserch project involves using Reinforcement Learning algorithms for the real-time control of energy systems.*



## Contacts

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