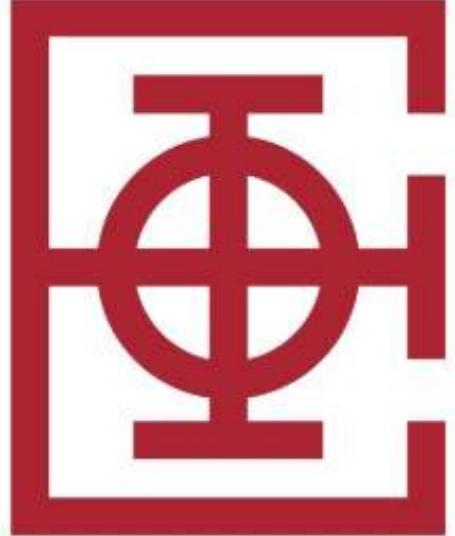
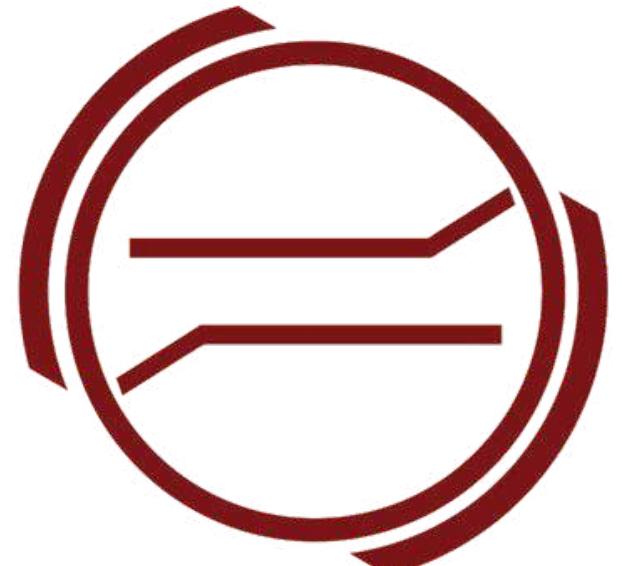




# COLLABORATION PROPOSAL



UNIVERSITY OF BELGRADE  
SCHOOL OF ELECTRICAL  
ENGINEERING



*"Save on iron and copper by smart use of silicon and software"*

# ABOUT THE TEAM

The team introduces a new dimension to higher education by preparing students for a successful career start.

**H-Bridges** develops software and hardware solutions in electric vehicles, renewable energy sources, and smart grid/home systems.

The team presents its achievements at international and national competitions, as well as scientific conferences.

The main competition in which the team participates is **IEEE IFEC**.



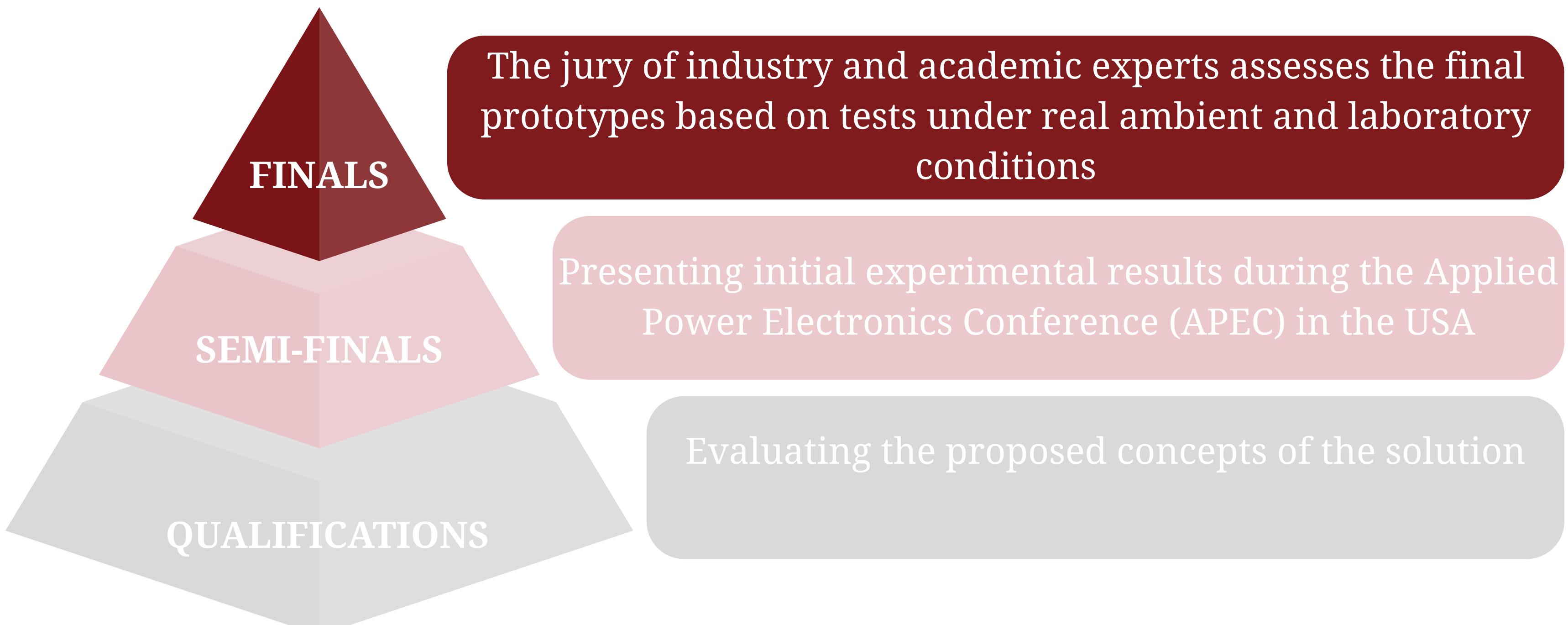
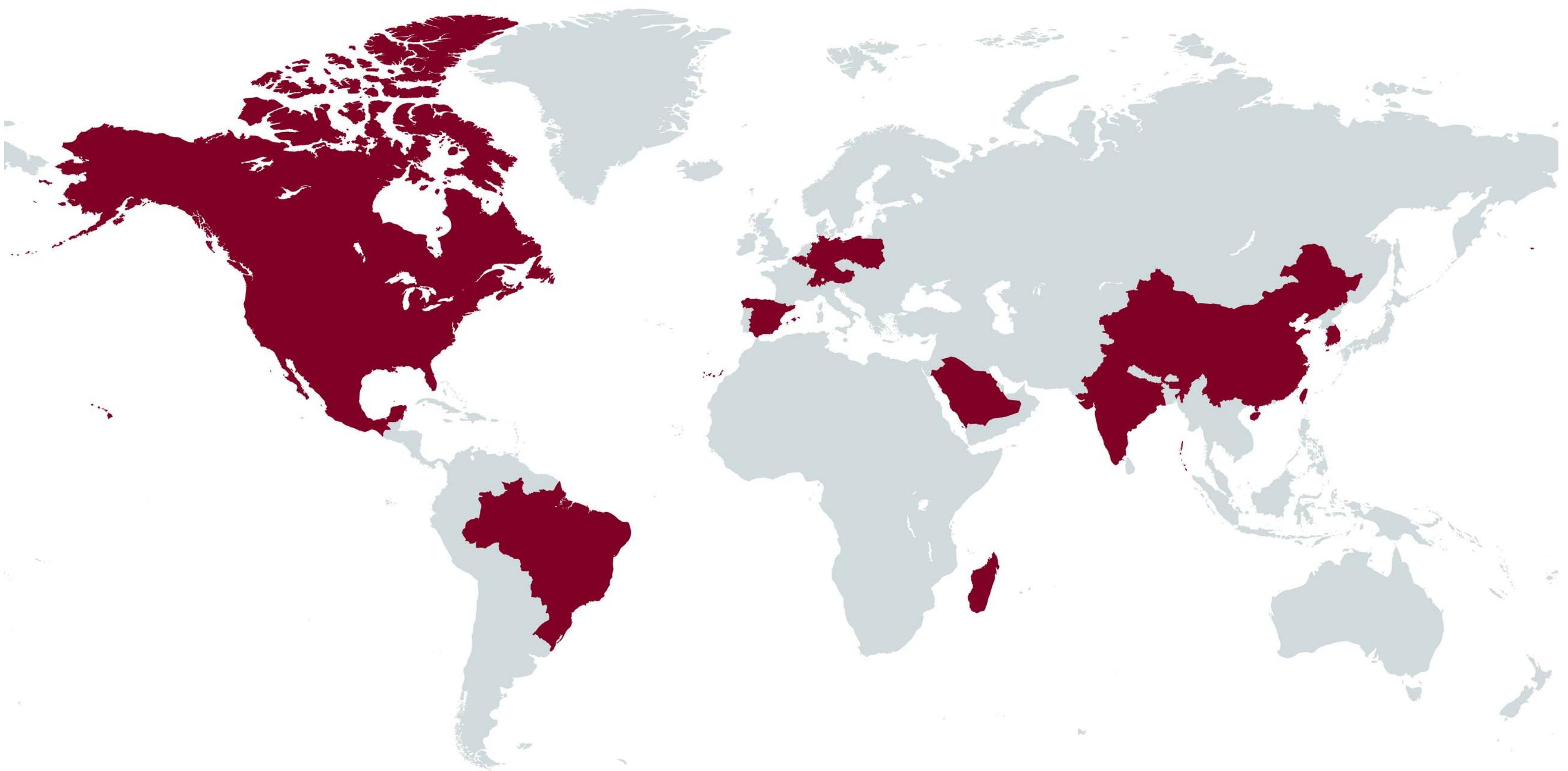
H-Bridges is a team from the Faculty of Electrical Engineering, University of Belgrade, within the **Laboratory of Digital Drive and Control**.

***International Future Energy Challenge (IFEC)***  
*is the biggest international university competition in innovative  
and energy-efficient solutions.*

*The competition is held by the*

***Institute of Electrical and Electronics Engineers (IEEE),  
the world's biggest organization of electrical engineers.***

**Our rivals come from industrially developed nations such as:**



# PREVIOUS ACCOMPLISHMENTS

**2016. 3<sup>rd</sup> place**

”The Best Education Impact Award”

**2019. 1<sup>st</sup> place**

”Grand Award”

**2022. 2<sup>nd</sup> place**

”Best Inovation Award”

**2024. 4<sup>th</sup> place**

”The Best Sound Quality Award”

**2005. 1<sup>st</sup> place**

”The Outstanding Technical Report Award & The Outstanding Presentation Award”

**2018. 4<sup>th</sup> place**

”The Best Education Impact Award”

**2020. 2<sup>nd</sup> place**

”The Outstanding Performance Award”

**2023. 2<sup>nd</sup> place**

”The Outstanding Performance Award”

**2025. 4<sup>th</sup> place**

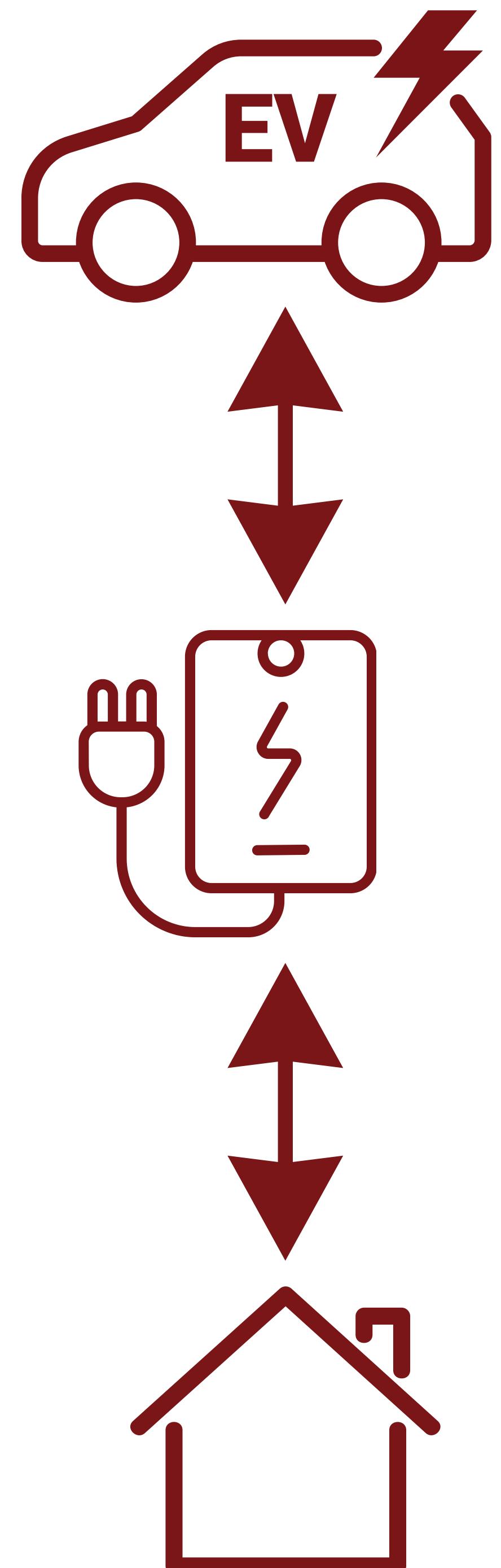
”Educational Impact Award & Outstanding Presentation Award”



# ONGOING PROJECT

The H-Bridges team's task this year is to develop and design a bidirectional on-board charger for electric vehicles. The charger must provide galvanically isolated battery charging while enabling energy feedback into the power grid as needed. Key requirements include high power density, energy efficiency, and reliable regulation in terms of power quality and response speed.

- power 1kW
- target power density - 2kW/l
- plug and play
- target efficiency > 92% at 1kW;



The IFEC competition requires that contestants raise funds independently for all necessary expenses related to electrical components, measuring equipment, and travel costs.

The team's participation in the competition contributes to the reputation of the University of Belgrade and the Republic of Serbia while also providing invaluable experiences and knowledge to the students, which can be significant and applied to improve the domestic economy.

**Semi-finals:**

**24th March 2026,  
San Antonio, USA**



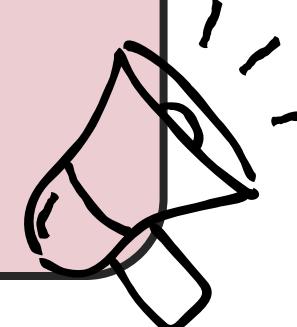
**Finals:**

**13–17 July 2026,  
Leuven, Belgium**

**The H-Bridges team represents the bridge between your company and students. The partnership packages of the H-Bridges team involve collaboration between your company and the School of Electrical Engineering.**

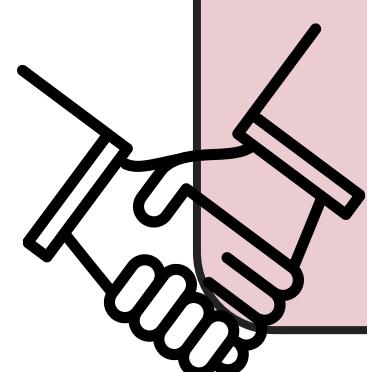
# PACKAGES

H-Bridges Promo Package  
“Advertising at ETF” Package



**H-START**

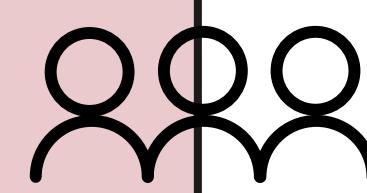
**H-PLUS**



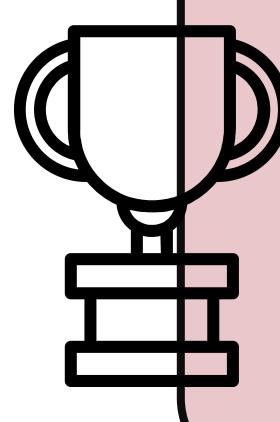
H-Bridges Promo Package  
Company event promotion  
“Career Bridge” event  
Panel discussion  
“ETF Partner” Package

H-Bridges Promo Package  
Company event promotion  
“Career Bridge” event  
Panel discussion  
Mock job interview  
“Major ETF Partner” Package

**H-MAX**

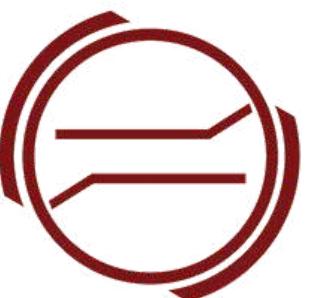
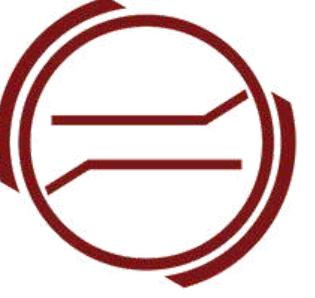
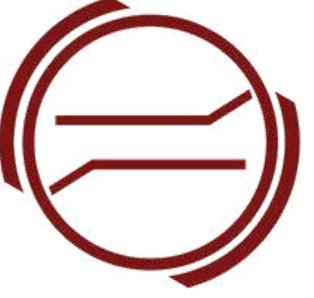
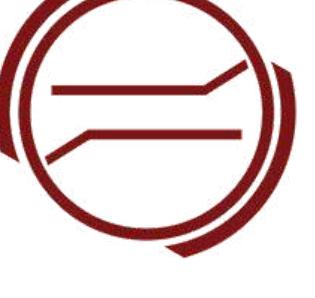
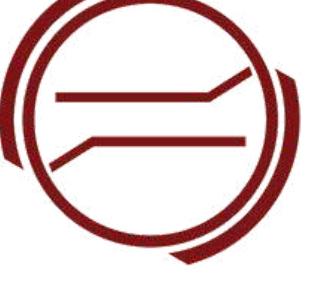
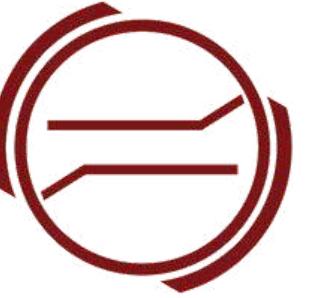
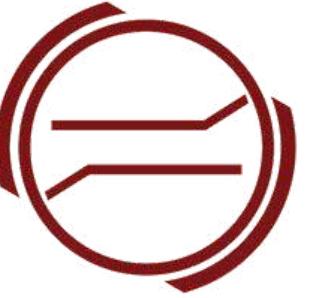
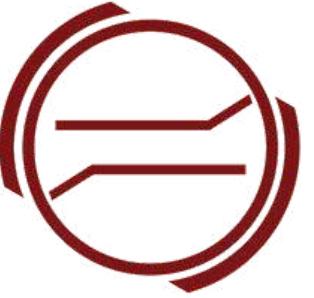
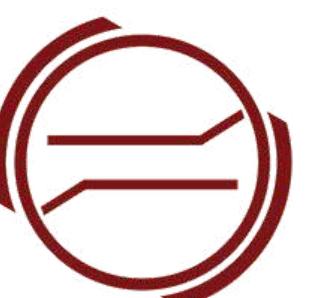
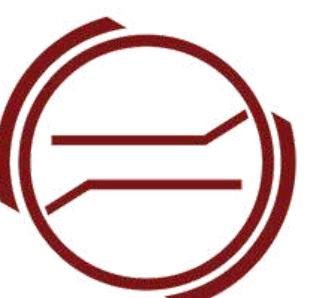
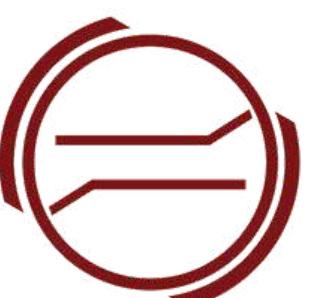
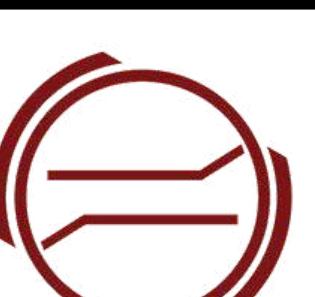
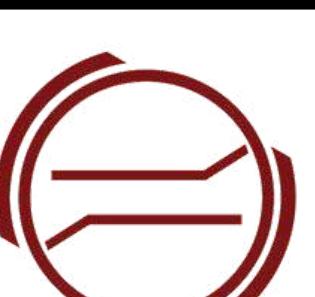
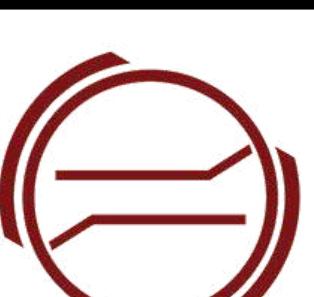
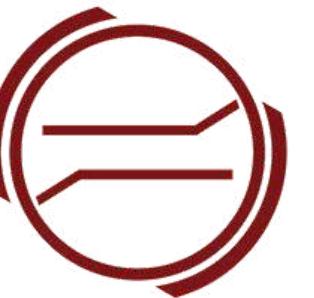
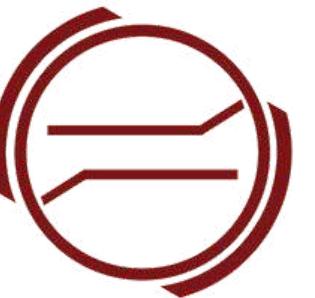
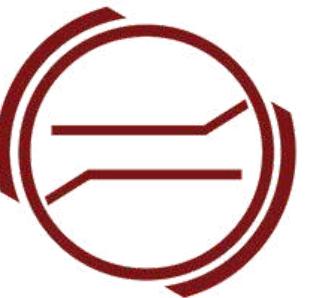
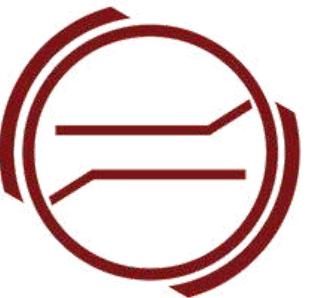
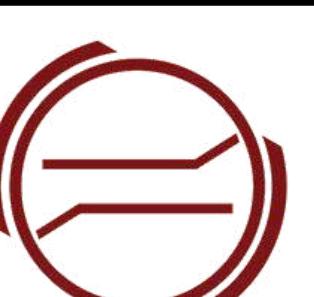
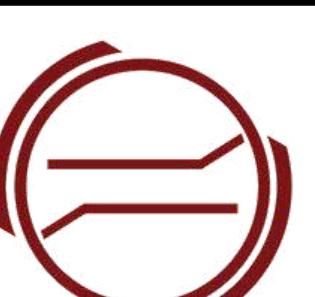
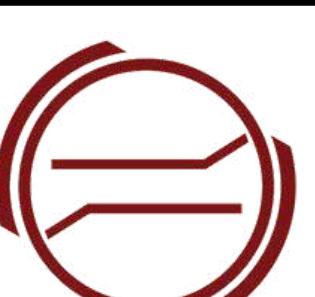
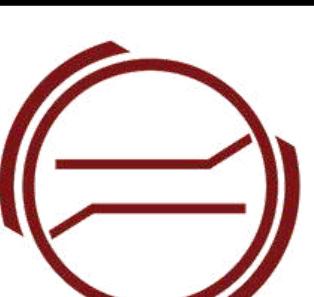
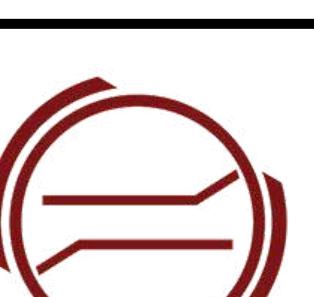
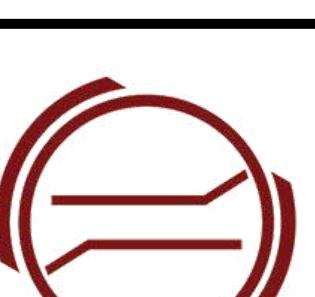
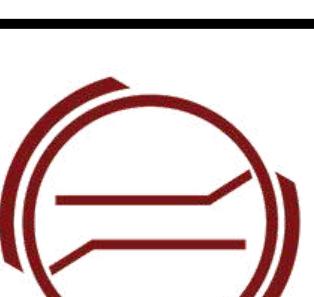
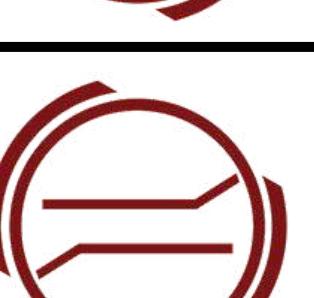
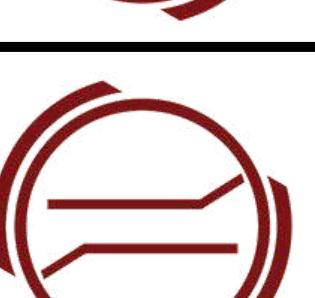
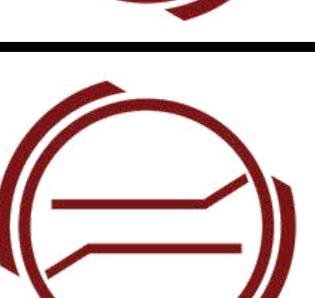
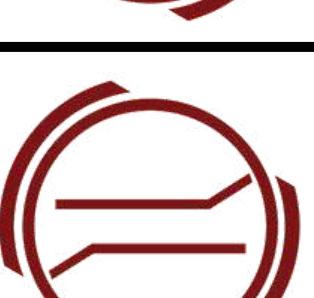


**H-PRO**



H-Bridges Promo Package  
Company event promotion  
“Career Bridge” event  
Panel discussion  
Mock job interview  
Field trip  
Speech at the gala cocktail  
“Silver ETF Partner” Package

# H-BRIDGES TEAM ACTIVITIES

PACKAGE	H-START 1.000€ +PDV	H-PLUS 3.000€ +PDV	H-MAX 5.000€ +PDV	H-PRO 10.000€ +PDV
Address by the company representative at team events (speech)				
Field Trip (student visit to the company)				
Job interview simulation				
Possibility of advertising company's offers for internship and employment				
Company participation in the Career Bridge event				
Company participation in the Panel discussion				
Possibility of promoting events and competitions held by the company				
Company description and banner on the official team website				
Company logo on the team's publications				
Advertising on the team's social media				
Advertising at the team's social events				

# ETF ACTIVITIES

PACKAGE	ADVERTISING AT ETF	ETF PARTNER	MAJOR ETF PARTNER	SILVER ETF PARTNER
Possibility of organizing specialized lectures for company representatives				
Short description of the company on the "Partners" page of the School's website			do 50 rečí 	do 100 rečí 
Possibility of cooperation on academic curriculum improvement				
Support in candidate selection for internships and employment				
Cooperation in choosing project topics, graduate and master theses				
Possibility of promoting events and competitions held by the company				
Company logo on the School's official yearly presentation				
Company banner on the "Partners" page of the School's official website				
Company logo on the School's promotional billboard				
Company logo on the official "School Day" leaflet				
Possibility of presenting the company to students				
Possibility of advertising company's offers for internship and employment				

# CONTACT

If you are interested in collaboration or have any additional questions, feel free to contact us:



**[h-bridges@student.etf.bg.ac.rs](mailto:h-bridges@student.etf.bg.ac.rs)**



or via phone:



Anja Babić  
Leader of the FR/PR team  
**+381 63 1897633**

You can also follow the Team's activities on social media and official website:



**FOLLOW US ON SOCIAL MEDIA:**

