Thinking along, collaborating, experiencing?

➡️ Drop by for a cup of coffee
➡️ Challenge our students with your real-world question
➡️ Or start a new DC project with our team!

👥 Team

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DE HAAGSE HOGESCHOOL



Research
Projects
Internship
Graduation

DC POWER LABORATORY

Why DC?
Why collaborate?

More and more devices run on direct current (DC), just like solar panels. So why are we still converting energy to alternating current (AC)? That process wastes energy, requires extra components, takes up space, and increases costs. DC is more efficient, more sustainable, and future-proof.

What we do for companies:

✓ We design and test the DC distribution board of the future
✓ We develop converters, circuits, and test setups
✓ We explore new DC applications in collaboration with companies
✓ We offer students who work on real-world industry challenges
✓ Together with our partners, we achieve sustainable breakthroughs

Highlighted benefits for companies:

• Energy and material savings
• New innovative applications (greenhouses, mobility)
• Collaboration with young technical talents
• Recognized research environment with international partners

Projects that make an impact!

For some time now, The Hague University of Applied Sciences has been conducting research on direct current (DC), a technology that plays a key role in the energy transition. Through the research group *Energy in Transition*, students have the opportunity to complete internships and graduation projects on this topic.

As young researchers, they work on practical challenges and present their results in IEEE-style papers at conferences. During this open day, they showcase their work to project partners and visitors — and we hope to inspire new students to join the DC Power Laboratory.

🧪 **Examples of projects:**

• NEWRAIL: solar panels on sound barriers in collaboration with TNO and ProRail
• DC Domestic Appliances: making appliances DC Ready
• DC Tiny House / Food Truck / Office Desk demonstrators
• International collaboration with South Africa
• DC Power Flow Converter for public transportation

🌎 **International recognition:**

🏆 Multiple national and international awards (3E–Royal SMIT)
📚 100+ publications (peer-reviewed) and trade journals

👷 **Who are we already working with?**

ABB, ATAG, CityTec, Victron, Fluke, TNO, ProRail, TU Delft, Municipality of The Hague, GVB, Heijmans, Stedin, HTM, Bender, and many others

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