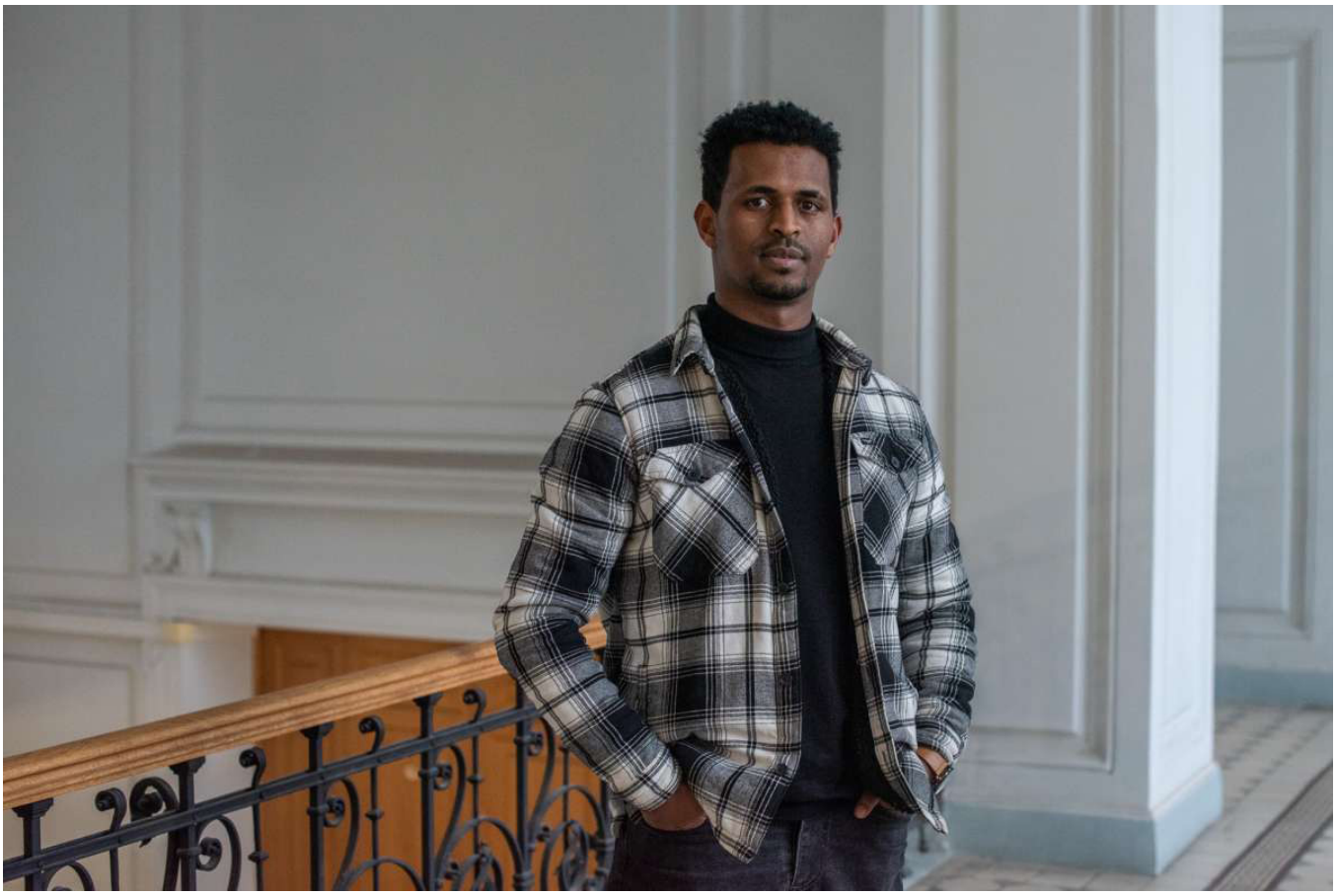
Vogen Yigebahal Zada: I am interested in the potential of hydrogen as a clean and promising energy source

Wogen Yigebahal Zada is a postgraduate student from Ethiopia studying energy systems. His focus is on alternative energy, from hydrogen technologies to renewable sources, energy policy and economics, and energy system optimization and modeling.



Hello Wogen, why did you choose energy and the Institute of Energy for your graduate studies?

It is very important nowadays to address global issues such as climate change, energy access, sustainable development and finding alternative green energy sources. I studied in an international master’s degree program and observed the quality of the education system and its reputation in energy research.

What attracts you most in your field of research?

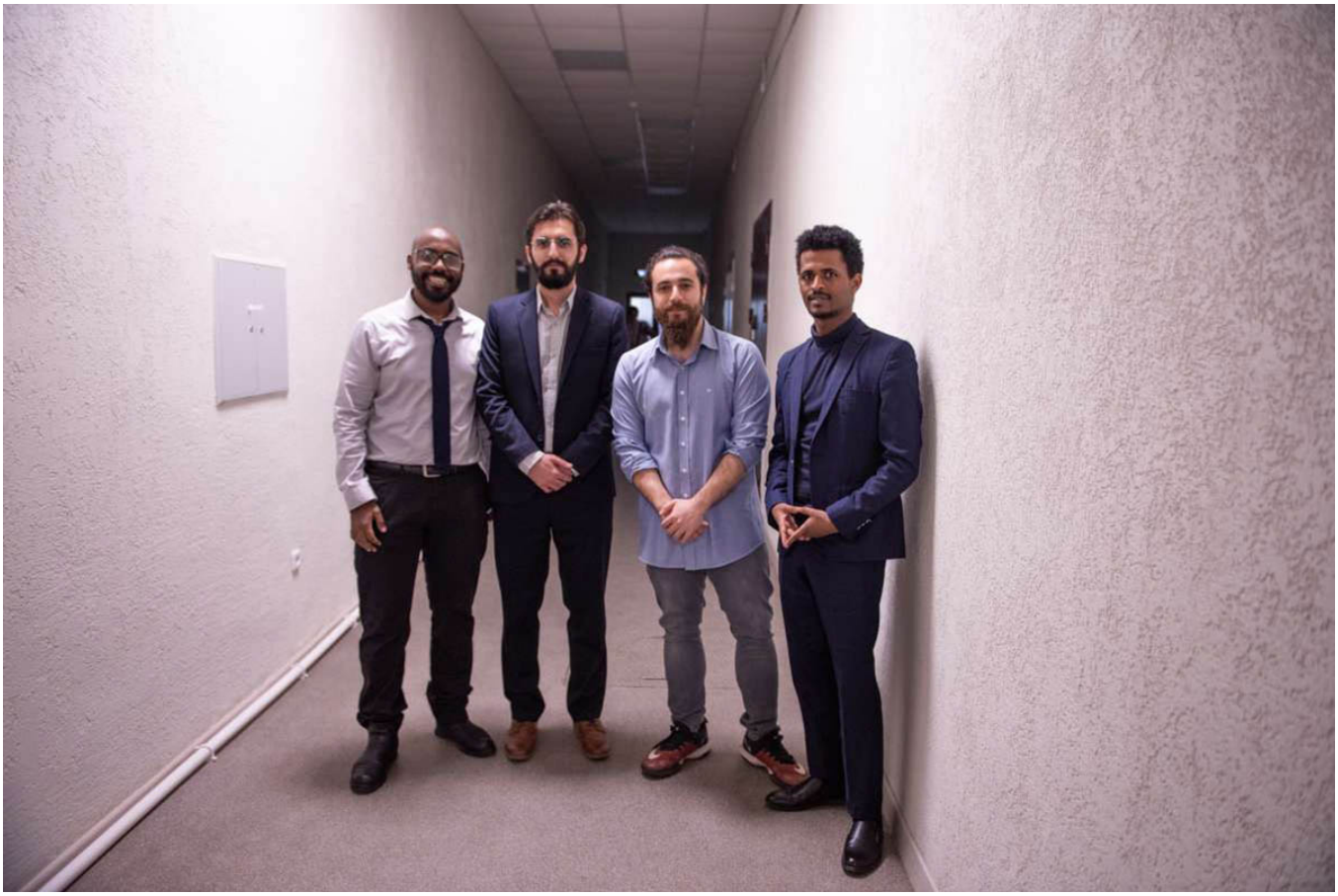
I am interested in the potential of hydrogen as a clean and promising energy carrier, especially its integration with renewable systems and its role in industrial decarbonization.

Tell us about your research topic.

My work focuses on analyzing hydrogen production technologies, particularly methane steam reforming and renewable energy systems, and their integration into existing energy infrastructures.

What challenges do you face when conducting research?

It is difficult to obtain regional energy data, to combine different technologies into one model and the economic issues of hydrogen production are also challenging.



What results have you obtained so far?

I have developed models for steam reforming of methane and integrating it into a thermal power plant system, as well as identifying key parameters affecting the efficiency of hydrogen production.

How do you find a balance between your academic, research and personal life?

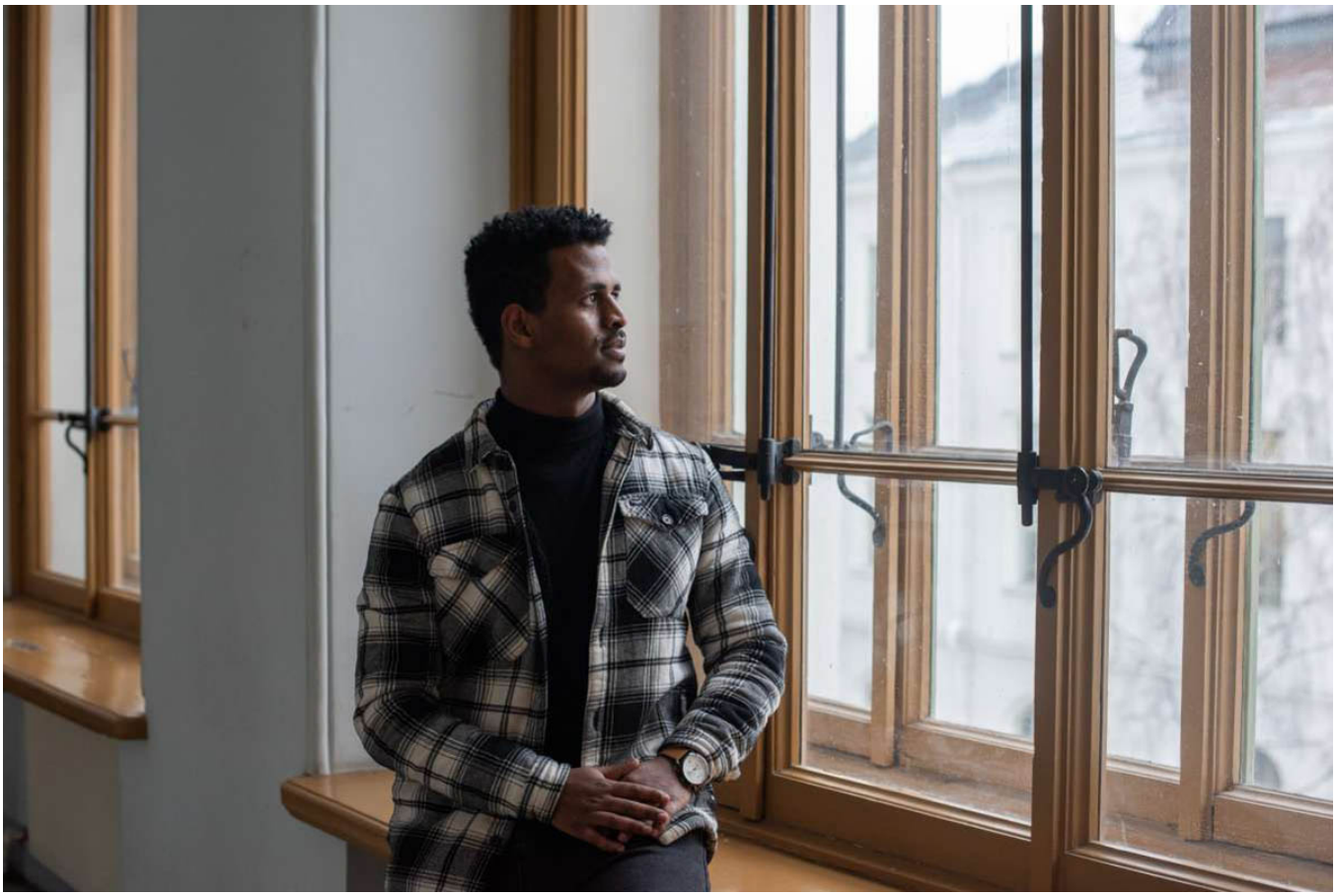
Time management is key. I strike a balance by prioritizing my interests, making time for personal growth while maintaining a physically active lifestyle.

What skills have you acquired during your time in graduate school?

I have gained experience in energy process modeling, energy systems analysis, scientific writing, big data analysis, and project management to name a few of the skills I have improved.

Do you plan to pursue a career in academia or industry?

I want to contribute to the energy sector, most likely in industry, focusing on clean energy innovation, but I am open to an academic career as well. At the same time, I have plans to join international energy agencies.



What challenges do you see facing today’s energy industry?

The modern energy industry faces major challenges, such as the need for decarbonization and universal energy access. At the same time, the industry has enormous potential through the development of hydrogen energy and renewable sources, as well as innovation in energy networks. An additional challenge is the complexity and instability of global energy policy.

How do you see the future of the energy industry in 10-20 years?

I see a global shift towards renewables, widespread adoption of innovative

hydrogen production technologies, and advances in energy storage and transportation systems.

Source

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