Meet the Buyer event

22 October 2020
Digital Event

Partners: TU Delft, The Green Village

CRE and The Green Village are looking for integral solutions to solve challenges around the energy transition in the built environment. This includes solutions for a smart multi commodity grid (SMCG).

Meet the Buyer events offer **interesting opportunities for your company** to get in touch with the leading enterprises in a variety of business sectors. The event is **invite only** and will give you the chance to have an individual **one-to-one meeting** with **key decision makers**. Join the event, establish valuable collaborations, pitch your products and services, and discuss business partnerships that can fast-forward your company's growth.

TU Delft is known for its ground-breaking research, excellent education and innovative cooperation with external partners. Campus and Real Estate (CRE) supports this. CRE develops and erects new buildings as well as renovations, manages and maintains buildings and sites and provides energy on campus.

CRE is subdivided into the departments of Strategic Campus Management, Campus Development, Science Park Development, Projects, Management and Maintenance and the Support Unit. These departments collaborate to provide a pleasant, sustainable studying, research and work environment at a lively campus so that TU Delft can maintain its international rankings.

The Green Village is the living lab for sustainable innovation in the urban environment at TU Delft Campus. This is where scientists, entrepreneurs, government bodies and the general public come together to test sustainable innovations on a small scale and eliminate possible bottlenecks. In doing so, innovations can scale up faster and be applied in the real world. Together we are working to solve the biggest challenges in the field of climate adaptivity and energy transition.

What is their business?

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Team Energy is the department of CRE which are responsible for:

- Energy purchase
- Energy production
- Energy infrastructure
- Energy storage
- Energy monitoring

For the Campus Real Estate department of Delft University of Technology, the goal of the energy transition of the campus is to create an energy system which is one of the foundations of a future proof campus.

A future proof campus is a campus:

1. Where can be studied, learned, taught, worked in a comfortable, healthy and safe environment
2. Where societal relevant innovative research can take place
3. Which represent and fulfil the sustainable ambitions of Delft University of Technology
4. Which is adaptive to the demand of functions and space
5. Which is economically viable

To realize this future proof energy system, the energy transition asks for an integral approach on:

- Values (from reliability to flexibility to economic feasibility)
- Perspective (Technology, Finance, Organisation, Communication, Legislation)
- Scale (User, Building, Area)
- System component (Energy production, storage, infrastructure, supply)
- Commodity (Electricity, heating, cooling, natural gas, hydrogen)

Therefore, an integral approach, innovations, and solutions are essential.

What are they looking for?

CRE and The Green Village are looking for integral solutions to solve challenges around the energy transition in the built environment. This includes solutions for a smart multi commodity grid (SMCG).

1. Within a few years, the limits of the capacity of the electrical grid of the campus will be reached. This could lead to power failures with severe effects on critical processes and long-term research experiments. To prevent this, we could invest heavily in grid reinforcements. But we prefer first to look for other solutions. We are looking for solutions which can help us to:
    a. reduce power peaks
    b. divide the energy demand more evenly during the day (energy buffering)
    c. get more insight in the division of the energy demand on the campus (sub-monitoring)

2. The transformation to a Smart Multi Commodity Grid (SMCG). An SMCG is an essential step into the energy transition. Without an SMCG it isn't possible to optimize energy usage, CO2 emissions, but also energy costs. Therefore, we are looking for solutions which can help us to:
    a. control and monitor integral a multi commodity grid (electricity, water, heat, gas)
    b. develop control strategies which are optimized for energy usages, CO2 emissions and/or energy costs in total
    c. maintain stability in the grids

An overview of the available infrastructure and assets at the TU Delft and The Green Village:

Assets:	**Infrastructure**:

Buildings with a variety in…
• Function
  • Education
  • Research
  • Office
	• Electricity
	• Heating
	• Gas
	• Water

• Residential
• HVAC installations
  • Heating:
  ○ District heating
  ○ ATES
  ○ Gas boilers
  • Cooling
  ○ Chillers
  ○ ATES
  • Ventilation
  ○ Mechanical
  ○ Heat recovery
  ○ Recirculation
• Electricity: AC, DC
• Monitoring: BMS, EMS
  • Manual metering
  • Automatic metering	

How can you apply?

If you are interested in this opportunity, please contact **Giuliana Unger** by sending an email to **g.unger@cleantechdelta.nl** and briefly indicate the interest of your company in the Buyer's case. You can also contact your regional SCALE-UP partner.

The deadline to apply is Friday, November 20, 2020.

Clean Tech Delta is organizing an event around the future of the build environment where the TU Delft and The Green Village will be presenting their challenge in a wider context. During the event, you will have the opportunity to ask your questions.

Sign up and find more information on the event itself here.

SCALE-UP PARTNERS

This Meet the Buyer event is an exclusive invitation for companies associated with the partner organisations in the North Sea region. Cleantech member organisations have joined forces in the Interreg SCALE-UP project to enable cross-border business contacts between SMEs with green solutions and established large companies. The overall aim is to facilitate for innovative cleantech companies to scale up your start-up. Consultants at the member organisations help participants prepare the meetings and support them through the business process.

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