

Blended Intensive Programme: Positive Energy Districts

2–6 September 2024 (campus)

9–13 September 2024 (online)

Dalarna University, Sweden



- Aim:** Students will increase their knowledge and understanding of positive energy districts to develop carbon-neutral cities
- Target:** Postgraduate students
(students working towards a Degree of Master/Degree of Doctor)
- Why:** Opportunity to take a blended intensive programme - the first of its kind in PEDs - with an international peer group, and to network and cooperate in an interdisciplinary environment
- Content:** Definition and Context; Technical Mastery; Impact Assessment and Social Engagement; and Implementation and Replication (incl. Business Model and Policy Framework)
- Lecturers:** Researchers from eight universities from diverse fields of study working with PEDs and carbon-neutral cities
- Forms of Study:** One week of campus study and one week of online study (lectures, group exercises, real site/lab facilities visit, workshops, presentations)



SCHEDULE

Time/Date	Mon. 2 Sep. 2024	Tues. 3 Sep. 2024	Wed. 4 Sep. 2024	Thu. 5 Sep. 2024	Fri. 6 Sep. 2024
8:30 AM	Welcome coffee				
9:00-10:30	<i>PED: definition and context</i>	<i>Energy mutation of cities facing climate change: key role of solar energy</i>	<i>Digitalization technologies: from BIM to CIM</i>	Impact assessment	<i>Business models for PEDs</i>
10:30-11:00	Break	Break	Break	Break	Break
11:00-12:30	<i>Urban planning</i>	Energy storage	Quantifying pathways to climate-neutral cities	<i>Sustainability of materials and protocols</i>	Implementation and replication
12:30-13:30	Lunch	Lunch	Lunch	Lunch	Lunch
13:30-15:00	<i>Visit laboratories and RE installation</i>	<i>Tools and exercises for characterisation of PEDs</i>	<i>'City Energy Analyst' (CEA) tool for simulation of PEDs</i>	<i>System dynamics modelling for enhanced social engagement</i>	Student presentations
15:00-15:30	Break	Break	Break	Break	Break
15:30-18:00	<i>Visit renovations in district</i>	Poster session	Group exercise 1	Group exercise 2	Home assignment
19:00-21:00	Social activity	Pizza night	Group work	Dinner	End of campus studies

Note:

1. Total 3 credits (equivalent to two-weeks of full-time study).

2. The group will design a group assignment that they will work on in week two (the online component of the programme).

PED Aspects	Definition and Context	Technical Mastery	Impact Assessment and Social Engagement	Implementation and Replication	Individual Study
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FEES AND COSTS

- You can apply for an Erasmus+ scholarship for your stay in Borlänge, Sweden: contact your home university.
- Lunch and social activities are organised by Dalarna University at no cost for students; however, students need to cover their travel costs.
- This BIP is offered to exchange students at no cost.

APPLY

- Apply from 15 March 2024: du.se/applytocourses
- Please contact your International Office for nomination/financial support.

CONTACTS (DALARNA UNIVERSITY)

- Programme-related questions: Xingxing Zhang (xza@du.se)
- Admission-related questions: Susanne Corrigox (sco@du.se)