

To:

Partners in Northern Connections

## Welcome to Oslo and *Økern Sentrum* living lab



**Økern Sentrum** is situated in the heart of Hovinbyen, one of Oslo's newest and most ambitious city development areas. Økern Sentrum has a potential growth of 30-40,000 new residents and will accommodate a total of 100,000 people in addition to its 2.5 million m<sup>2</sup> area for industry and trade.

From 2020 the developers [Steen & Strøm](#) and [Storebrand](#) will create an urban, sustainable and innovative 163,000 m<sup>2</sup> urban centre including an indoor aquapark, a cinema, a substantial amount of housing facilities, cultural venues, offices, hotels and a leading commercial centre in Økern Sentrum. With this living lab we invite companies, businesses and SMEs and partners in Northern Connection to help us develop Økern Sentrum with clean-tech solutions, innovations and services.

## Oslo Living lab Innovation Award

We hope to be able to sign contracts with many of the participants under the Økern Sentrum - Oslo Living lab. In addition we will provide an innovation award - 50 000 NOK,- (5200 Euro) to the company who provides the best contribution to our project. The award ceremony will take place at Stratos Roof-top Bar Thursday 29<sup>th</sup> of November, directly after the innovation lab.

The jury will consist of

- Robert Steen, Vice Mayor – The City of Oslo (TBC)
- Mali Hole Skogen, director OREEC
- Thomas Holth, Project Director Steen&Strøm
- Unn Hofstad, Sustainability Director Storebrand ASA

We're looking forward to meet with you and your company in Oslo in November. Please Contact [mali.skogen@oreec.no](mailto:mali.skogen@oreec.no) if you have any questions.

Best regards

Pål Samuelson

Head of development Steen&Strøm

Mali Hole Skogen


Director OREEC

# What and who are we looking for?

ØKERN SENTRUM

Looking for the sustainable solutions for the future of  
ØKERN SENTRUM

Project specific goals



- BREEAM "Excellent"
- Reduced energy consumption
- Mobility - high arrival by foot, by bicycle or public transport
- Deliveries optimized for sustainability
- Local water management and green roofs, as well as reuse of water
- Co2 footprints are calculated and planned - goals of lower levels than market standard
- Circular economics and fossil-free construction sites.

TECH SOLUTIONS & use of new products in all phases of the project, but especially for the underlying for categories.

## Circular and holistic waste management

Waste management - Under ground waste management opportunity

- vacuum systems
- central systems for waste management
- smart handling of public waste
- food waste programs and circular waste management
- ...And what we don't know

## Sustainable energy solutions

Heating & cooling

- Energy wells
- Battery/storage technology

Electrical production

- Solar panels on all surfaces
- Wind power, wind trees, movement etc
- Hydroelectric plants in the sewage system etc.
- ...And what we don't know



### Green Mobility & Infrastructure for sustainable transport

- Smart transport of goods
- Fossil free private car, cycle parking & pooling
- Car/Ridesharing.

### Construction period / Execution

- On site circularity & re-use of materials
- Co2 emission free construction site
- Energy consumption & usage during construction period
- Re-use & circularity of materials – cradle 2 cradle.

If you have any questions, please contact [einar@fuglen.no](mailto:einar@fuglen.no) and [mali.skogen@oreec.no](mailto:mali.skogen@oreec.no)



# Program Living Lab Økernbyen

**Organizer:** OREEC, City of Oslo, Steen og Strøm/  
Storebrand and Interreg North Sea  
Region

**Place:** SALT Langhuset,  
Adresse: Operatunnelen, 0150 Oslo  
Langhuset rises 12m above the  
ground underneath a gigantic fish rack.

**Time:** November 29th 2018 09:00 -15:00

**Registration:** <https://kunnskapsbyen.hoopla.no/sales/3026199019>



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*Dinner and presentations of companies will take place at Stratos Roof-top bar  
from 17:00*

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09:00 **Welcome to Oslo – [European Green Capital 2019](#)**

Vice Mayor The City of Oslo, Lan Marie Berg



09:10 **Oslo – world class arena for renewable energy**

Mali Hole Skogen, director [OREEC](#)



09:30 **Presentation: [Økern Sentrum living lab](#) –Who and what are we  
looking for?**

Pål Samuelson Project manager - Økernbyen



09:50 **Let`s bring the best and newest solutions to Oslo**

Thomas Bermann Director [Pådriv](#)



10:10 Introduction to innovation labs

10:15 **Innovation lab 1** Open sessions – round table questions and discussions.

At this session the companies will have the opportunity to speak directly with the developers of Økernbyen. Here you can ask questions and immerse yourself in the project and get guidance directly from the developers of Økernbyen. The session will be organized as a group discussion

- 1) Circular and holistic waste management
- 2) Sustainable energy solutions
- 3) Green Mobility & Infrastructure for sustainable transport
- 4) Construction period / Execution

11:00 Break

11:15 **Innovation lab 2** 1-1 sessions

At this session the companies will have the opportunity to speak directly with the developers of Økernbyen. Here you can ask questions and immerse yourself in the project and get guidance directly from the developers of Økernbyen. The session will be organized as 1-1 meetings between the companies and Økernbyen. 5 meetings of 10 min.pr. topic

1. Circular and holistic waste management
2. Sustainable energy solutions
3. Green Mobility & Infrastructure for sustainable transport
4. Construction period / Execution

12:05 Summary Innovation labs

12:15 Lunch

13:15 Preparations for presentations

Companies work on the presentations. Representatives from Økernbyen will be available for questions and guidance the whole session.



# Oslo Living lab mingle dinner party and company presentations



**Place:** [Stratos Roof-top bar](#)

**Time:** November 29th 2018 17:00 -22:00

**Target group:** All participants at the political conference, the living lab and Transnational Working day, guests and friends of NoCo

**Registration:** <https://kunnskapsbyen.hoopla.no/sales/3465097159>

**Dinner:** Bar will be open all night and dinner will be served from 18:00

17:15 Welcome to Oslo by Mali (OREEC), Pål (STEEN& Strøm)

Presentation of the jury

- Robert Steen, Vice Mayor – The City of Oslo (TBC)
- Unn Hofstad, Sustainability Director Storebrand ASA
- Thomas Holth, Project Director Steen&Strøm
- Mali Hole Skogen, director OREEC

17:45 Presentation of companies - living lab pitches

7-10 slots of 7 min each

19:30 New deals -Presentation of other development projects in Økern/Hovinbyen. Several development projects is live and operational Økern. Many of the developers have shown interest in the NoCo Oslo living lab. A few of them have also expressed interest in meeting the the companies.

[Obos: Construction City](#) Director– Benedicte Økland

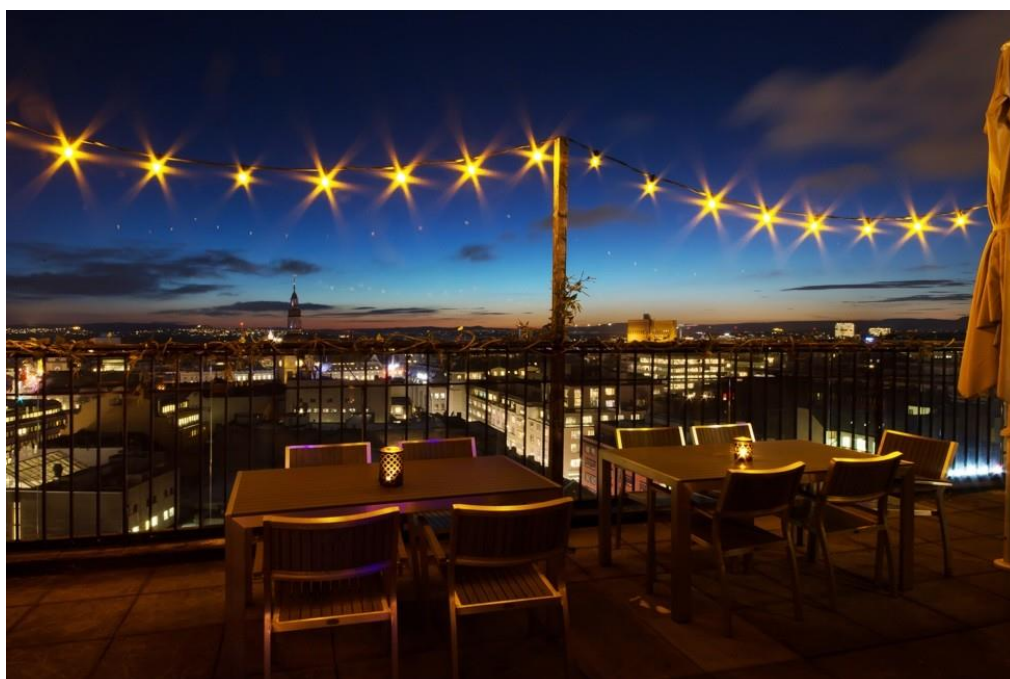
[Pådriv:](#) Thomas Bermann



HOVINBYEN – SENTER FOR NY BYUTVIKLING

1. **INNOVASJONSDISTRIKTET HOVINBYEN**  
*Byråd for Næring*
2. **HOVINBYEN SENTER FOR NY BYUTVIKLING**  
*PBE*
3. **INTERREG LIVING LAB ØKERN SENTRUM**  
*North Sea Connection  
Interreg / OREC / Byrådet for Næring og Økern Sentrum*
4. **CONSTRUCTION CITY, ULVEN**  
*OBOS / AF-gruppen*
5. **BETABYEN PÅDRIV**  
*Pådriv*
6. **TÅRNET KULTURARENA**  
*Oxer Eiendom*
7. **KABELGATA KULTURFABRIKKER**  
*Oxer Eiendom*
8. **KUBEN YRKESARENA**  
*Oslo Kommune*
9. **UKS KUNSTNERBOLIGER**  
*Hasle kunstnerboligprosjekt fragment*
10. **VOLLEBEKK FABRIKKER**  
*OBOS og Aspelin Ramm*
11. **NORSK GJENVINNING**  
*Oslo Kommune*
12. **TELIA + ØKERN PORTAL**  
*Telia og KLP*

- 19:00 Presentation of companies - living lab pitches  
7-10 slots of 7 min each
- 21:00 Award ceremony





## About the organizers:

### Oslo Renewable Energy and Environment Cluster (OREEC)

OREEC is a network with businesses, research institutes, education and public actors within the field of renewable energy and environment in the Oslo region. OREEC's purpose is to contribute to increased innovation, increased business opportunities and increase value creation for our partners.

OREEC's aim is to make Norwegian businesses world leading within their fields. We do this with close collaboration with local governments and other public and private actors so that we can create a market for technology and competence from the regions tech companies and service providers. We promote our partners through our extensive international network. We believe that this will give OREEC's partners increased exposure and opportunities both abroad and domestic.

We believe that innovation is a result of collaboration between the private sector, governments and the research and educational institutions. Forward - looking solutions requires holistic thinking and collaboration between different focus areas. OREEC has a holistic approach and facilitates dialogue and greater interaction between the different actors across the thematic focus areas. We also work for better conditions for business in certain areas.

OREEC contributes to the establishment of new partnerships between businesses and between businesses and research. More and more companies are joining as a partner in OREEC. Many of the partners actively participate in OREEC's projects, others attending various meeting places or engage in OREEC's work in other ways.

## City of Oslo

Making Oslo region attractive for innovation and transforming it into the world's most sustainable, smart and innovative region will require collaboration efforts. Tackling climate change is a high priority for Oslo. That is one of the reasons why City of Oslo is partner in North Sea Region EU project Northern Connections (Interreg 2016-2020). Main output is building capacity and transnational relations of sustainable energy clusters to provide demand-led innovation support. This creates the foundation for involving more SMEs and startups in innovation. Develop broader *political* backing using Northern Connections to create coherence between political ambitions and cluster potential for innovation support.

The Partnership consists of 21 clusters, cities, regions and knowledge institutions. The main goal is to unlock the potential for sustainable energy clusters across the borders in the North Sea Region. As the pollutions know no borders so should the clean tech solutions –the key here being best practice sharing, both on policy and on concrete solutions and new

innovation. It is going to be two political conferences, one in 2018 and the closing conference in Goteborg in 2020.

The city of Oslo aims to cut emissions by 50% by 2020 (compared to 1990) and to be carbon neutral by 2050. Oslo has introduced a range of integrated measures to achieve these ambitious targets, for example, by promoting zero emissions transport. The city has become the 'Electric Vehicle Capital of the World' with 30% of all vehicles now sold in the city being electric.

In 2016, the city introduced a 'Climate Budget', an initiative consisting of 42 separate measures across three sectors: energy and the built environment, transport, and resources. Carbon Dioxide emissions are now being counted in the same way a financial budget would account for funding. The unique 'Climate Budget' is one of the main initiatives that the City of Oslo is driving to reach its goal of 50% emissions reduction by 2020

Innovation and the promotion of new jobs in the circular economy is a priority for Oslo and the city is at the forefront of circular use of available resources. Biogas produced from bio-waste and city sewage is used to fuel city buses and waste trucks.

The City of Oslo aim to be a part of how can Cities can unlock the potential for regional innovation across borders.