



OMSORGSBYGG
OSLO KF



Zero emission construction sites

«Climate change will engage in all politics in the coming years. Climate action is not something that should be taken somewhere else, at a different time or by someone else.»

- Governing Mayor Raymond Johansen in VG 19.10.2015

Focus areas

- Comfort, health and working environment
- Energy usage
- Local emissions from construction sites
- Climate gas emissions from:
 - Materials
 - Construction sites
 - End-of-life



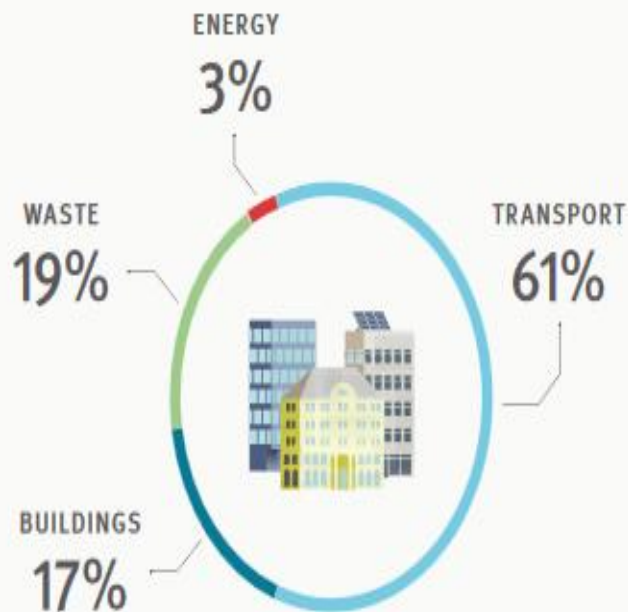
Mandag ble det installert 392 kvadratmeter med solceller på taket av trygdeboligene som rehabiliteres på Tåsen i Oslo. (Bilde: Mari Gisvold)

BYGGEPLASS PÅ SOLKRAFT

Her driftes hele byggeplassen med solceller

- Første steg mot utslippsfrie byggeplasser.

Main sources of greenhouse gas emissions in Oslo



Distribution of emissions from transport

Source: Statistics Norway combined with The City of Oslo's own numbers, 2013.

PRIVATE CARS



TAXI



3%

PUBLIC
TRANSPORT



3%

LEIGHT FREIGHT VEHICLES



10%

HEAVY DUTY VEHICLES



15%

CONSTRUCTION MACHINERY



30%

Source: Statistics Norway combined with The City of Oslo's own numbers, 2013.

Dialog med markedet

BELLONA



NHO



Nasjonalt program for leverandørutvikling

Innovative offentlige anskaffelser



Uttestinging av nye løsninger





Jan Gunnar Halstvedt viser hvor batteriet plugges inn når anleggsmaskinen skal lades. (Bilde: Mari Gisvold)

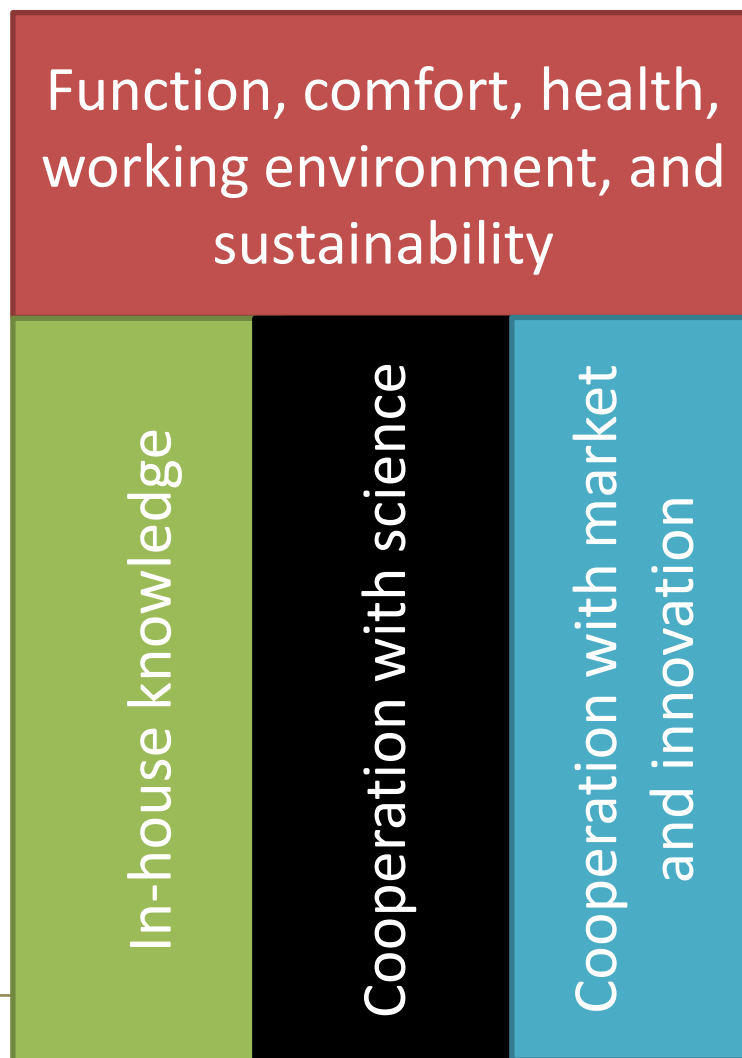
BYGGEPLASS PÅ SOLKRAFT

På denne byggeplassen drives anleggsmaskinene av solceller

På vei mot utslippsfrie byggeplasser.

AV: MARI GISVOLD GARATHUN | **BYGG** | PUBLISERT: 27. JUNI 2016 - 11:59

Our approach



Process

- Cooperation with NGO
 - Knowledge
 - European dimension
 - Networks
 - Communication
- Dialogue with the market
 - Conference
 - 1-on-1 meetings
 - Implementation of quick-fixes
- RnD partnership with market and science
 - Development of new technologies
 - Development of new processes and monitoring

Preliminary results

- All construction sites are fossil free
- Implementation of all electric machinery available
- Improved process for heating and drying

Next steps

- Innovation and research partnerships
 - Battery-run 16-ton excavator due aug -17
 - Improve processes
 - Improve technologies/electrification/hydrogen
 - Study the health effects for construction workers

Questions?

Thank you for your attention!

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