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.

AV: MARI GISVOLD GARATHUN | BYGG | PUBLISERT: 11. NOV. 2015 - 14:26
Main sources of greenhouse gas emissions in Oslo

**Energy**
- 3%

**Waste**
- 19%

**Buildings**
- 17%

**Transport**
- 61%
  - Private Cars: 39%
  - Taxi: 3%
  - Public Transport: 3%
  - Light 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

Nasjonalt program for leverandørutvikling
Innovative offentlige anskaffelser
Uttesting av nye løsninger
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

Function, comfort, health, working environment, and sustainability

- In-house knowledge
- Cooperation with science
- Cooperation with market and innovation
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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