

**ASKO**  
– vi forsyner Norge med mat

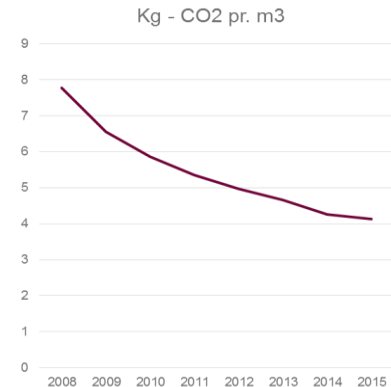
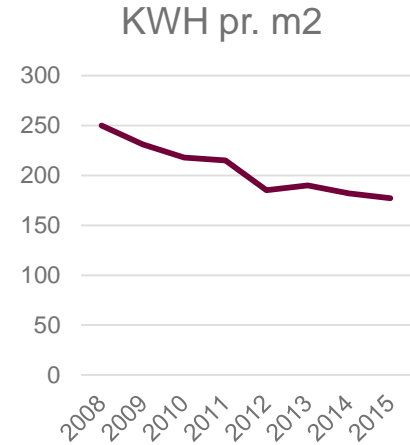
## Brennstoff for fremtiden

September 2016

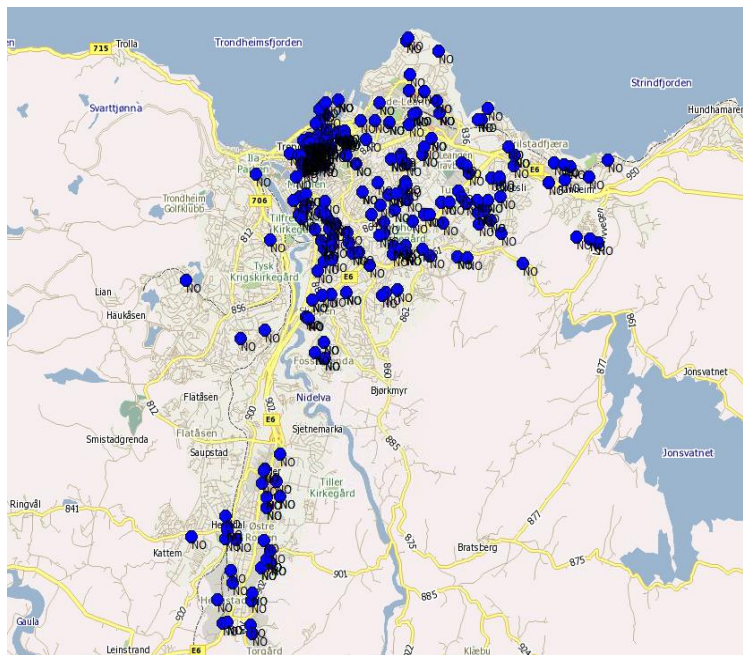
# ASKO – milestones Enviromental



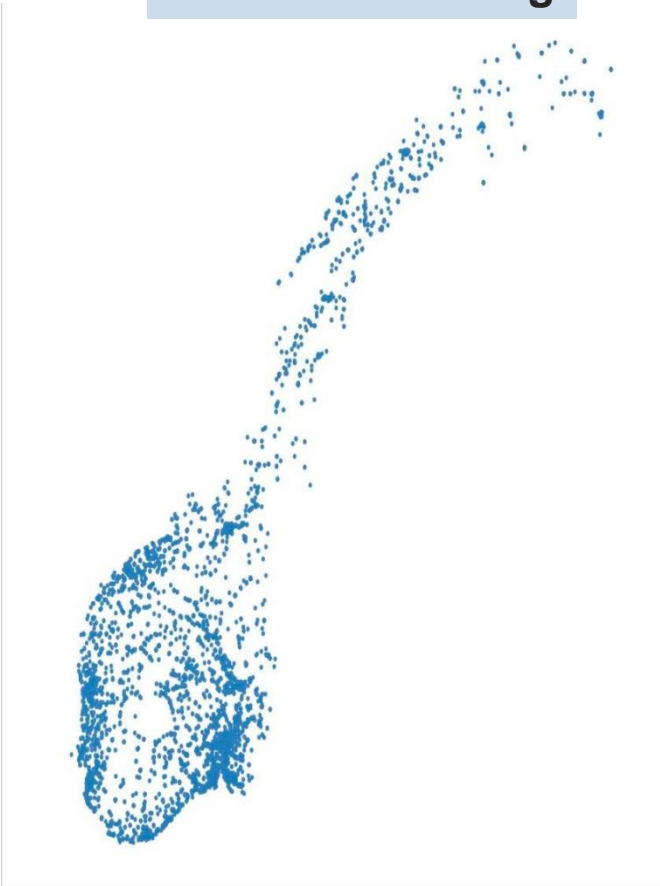
- 2005 – ASKO Norge AS – først i Norge med kryogenteknologi i aggregater
- 2007 – ASKO Norge AS – først i verden med kryogenteknologi i aggregat på semitrailer
- **2007 – ASKO Oppland AS B-30 (30% biofuel)**
- 2008 – ASKO - Styring av energibruk i alle lagre – SD anlegg
- 2009 – ASKO Norge AS – først i Norge og verden med distribusjonsbil drevet med bioetanol
- 2010 – ASKO tok i bruk B-30 i de fleste ASKO selskapene (30% biodrivstoff)
- **2012 – ASKO VEST AS – EURO 6 i Norge**
- 2013 – ASKO Oppland AS – tar i bruk bergvarme og varmepumpe til oppvarming
- 2013 – ASKO Rogaland AS – første i Norge - EURO 6 distribusjonsbil drevet med biogass
- **2014 – ASKO ØST AS – Norges største på solkraft**
- 2015 – ASKO Vestfold Telemark AS – Hybrid lastebil
- 2015 – ASKO Rogaland AS – først i ASKO med 2G B-100 (fornybar biodiesel)
- **2016 – ASKO Rogaland AS – 5 vindmøller**
- 2016 – ASKO NORGE AS – Norges første elektriske lastebil
- 2017/18 – ASKO Midt-Norge AS – Pilot hydrogen



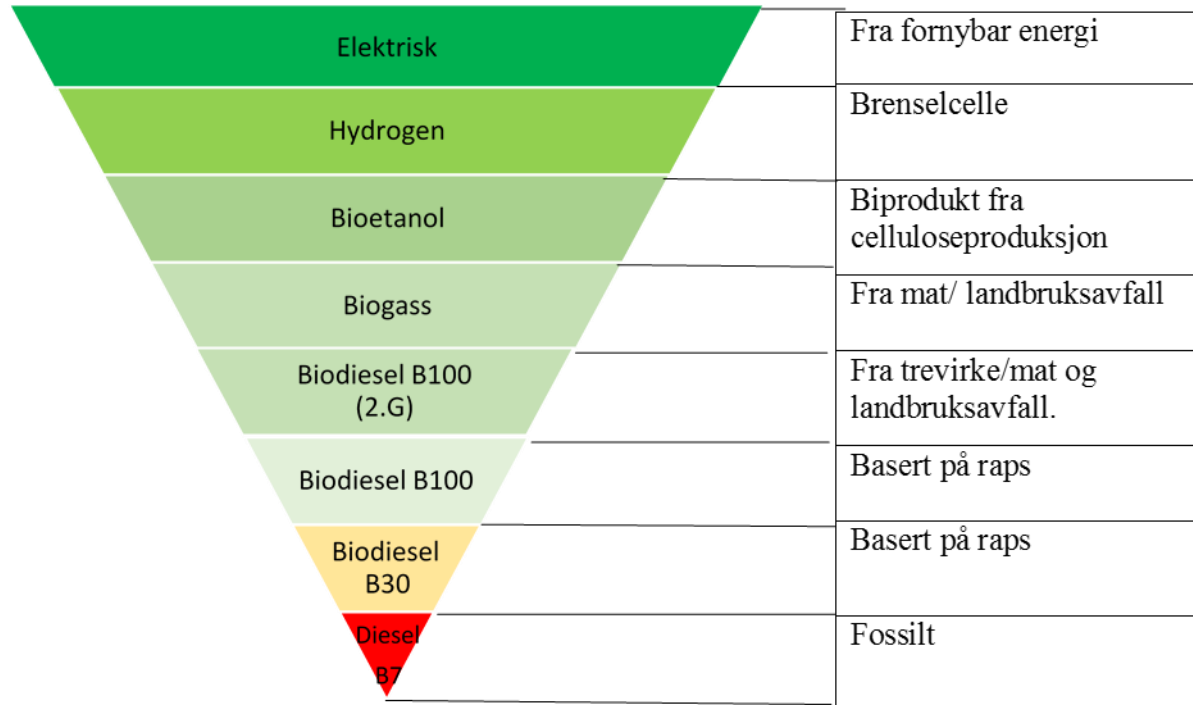
## Mandagsleveranser Trondheim by



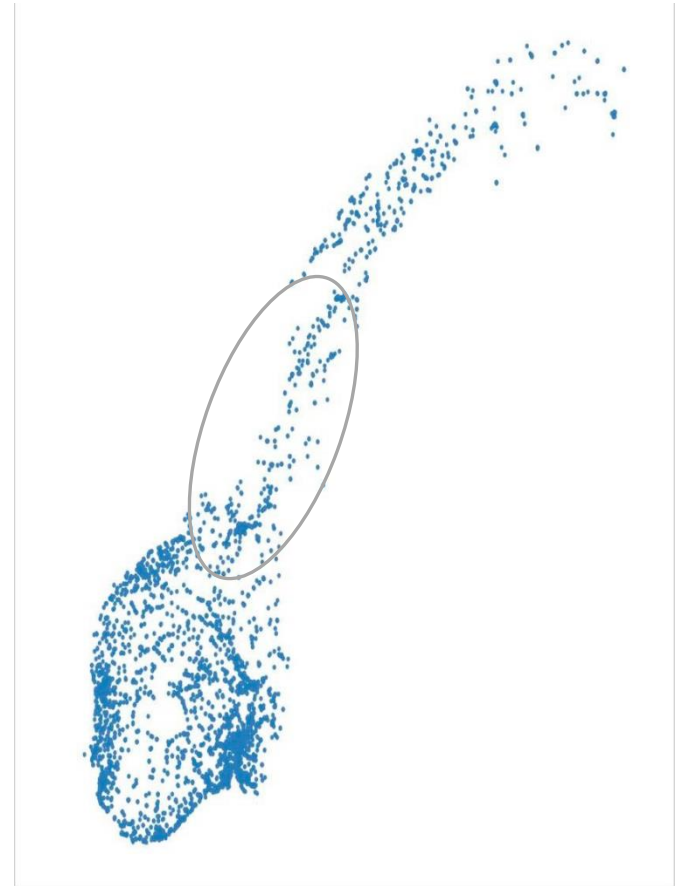
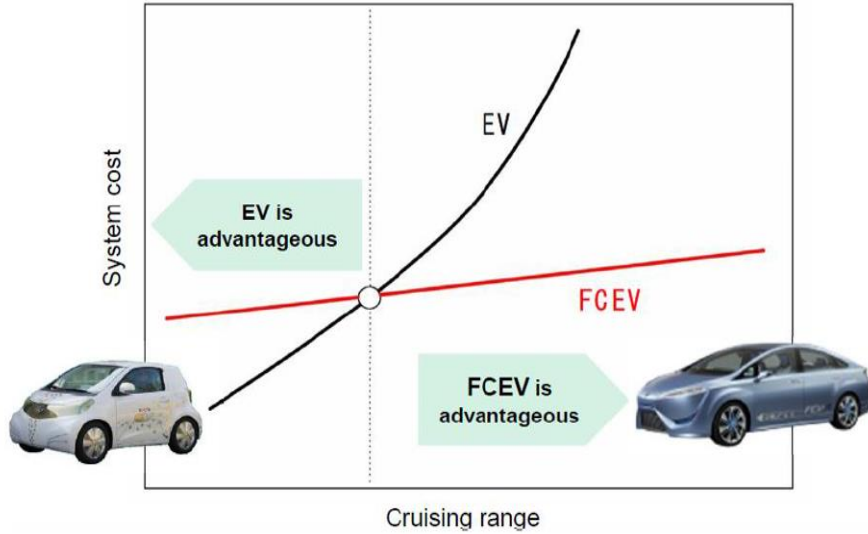
## 600 biler hver dag



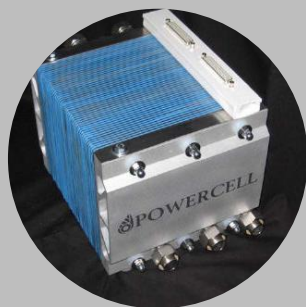
# Brennstoff - hierarki



# EV vs Hydrogen?



## Hydrogen & Solkraft



REFORMERE  
DIESEL TIL H2



SOLKRAFT  
1,2 GWH



INFRASTRUKTUR  
150 – 200  
KG/ DAG



INTERNE  
TRUCKER



DISTRIBUSJONS  
BILER  
3/4

**Totalprosjekt 70 mill**

Pilot ASKO MIDT – NORGE  
med støtte fra ENOVA

# Scania og ASKO

VOLKSWAGEN  
AKTIENGESELLSCHAFT



[Homepage](#)  
[The Group](#)  
[Brands and Products](#)  
[Innovation](#)  
[Sustainability and Responsibility](#)  
[Investor Relations](#)  
[Human Resources](#)  
[Press](#)

[Deutsch](#)  
**[English](#)**

**STOCK TICKER**

**Preference: 120.40 €**  
**25/08/2016 | 05:35 pm**  
**Ordinary: 127.55 €**  
**25/08/2016 | 05:35 pm**

📁 Open the File Folder. (0)

## News

📁 Add to File Folder

> to overview

Södertälje, 2016-08-18

**Scania and Asko test hydrogen gas propulsion**

Asko, which is Norway's largest convenience goods wholesaler, is continuing its investment in sustainable transport services. The company will together with Scania start testing trucks with an electric powertrain. Electrical energy is converted from hydrogen gas in fuel cells on board the vehicles. The hydrogen gas will be produced locally, using solar cells. The trucks will run in distribution service with distances of almost 500 km.

"This very interesting project represents a unique opportunity to test the fuel cell technology for conversion of energy to our electric powertrains in a challenging customer operating environment. The conversion of hydrogen gas to electrical energy on board trucks, which are operated for longer distances will thus provide value experience for Scania's continued development of electrified powertrains," says Nils-Gunnar Vågstedt, who is responsible for the development of Scania's hybridisation and electrified vehicles.

**Film**