

# Country report: Sweden



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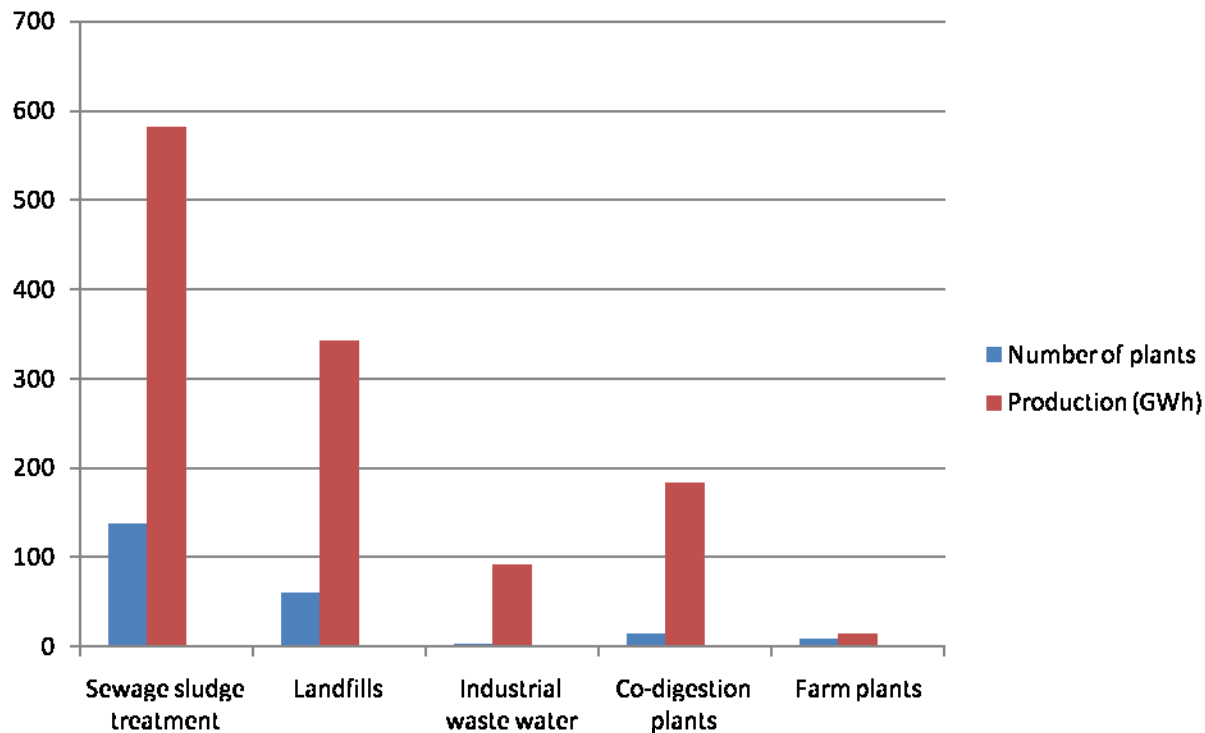
# Biogasproduction in Sweden 2006

- 1.2 TWh produced per year
- 223 plants
  - 138 municipal sewage treatment plants
  - 60 landfills
  - 3 Industrial wastewater treatment plants
  - 14 Co-digestion plants
  - 8 Farm plants

Source: Swedish Energy Agency, ER 2008:02

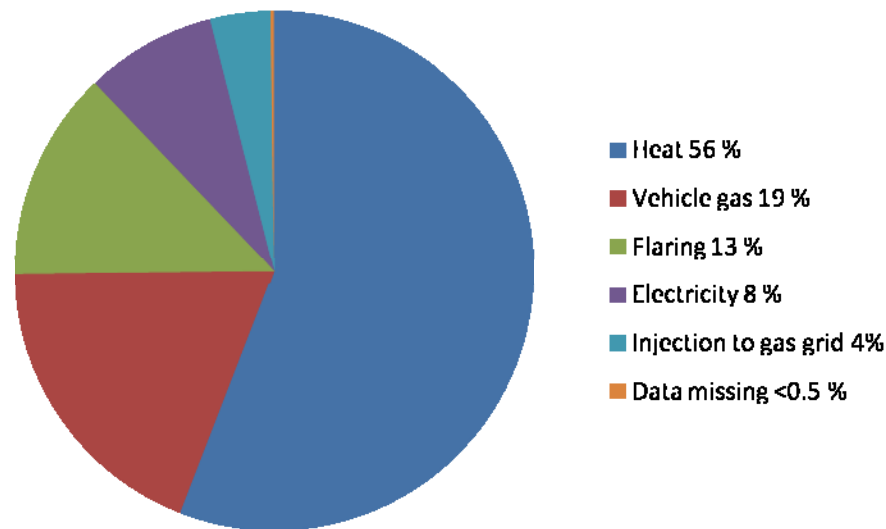
New statistics for 2007 and 2008 will be available Q3 2009

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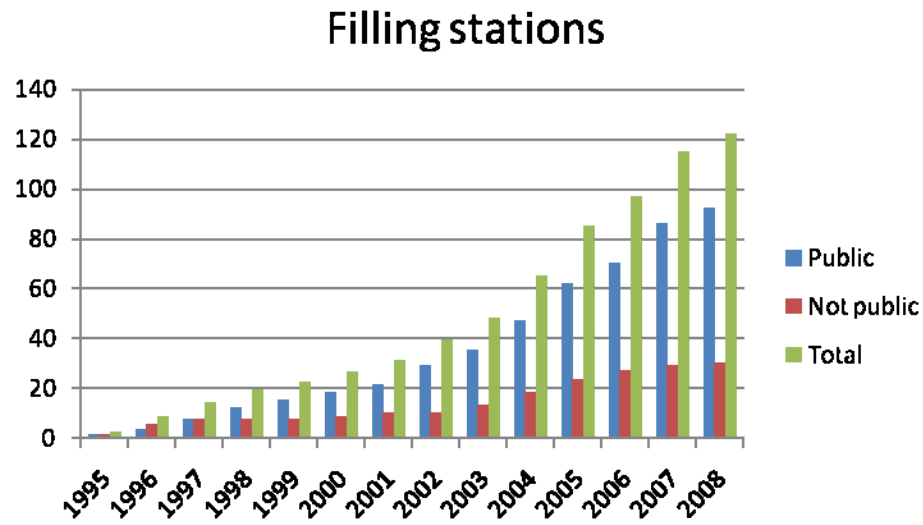
# Utilization of biogas in Sweden (2006)



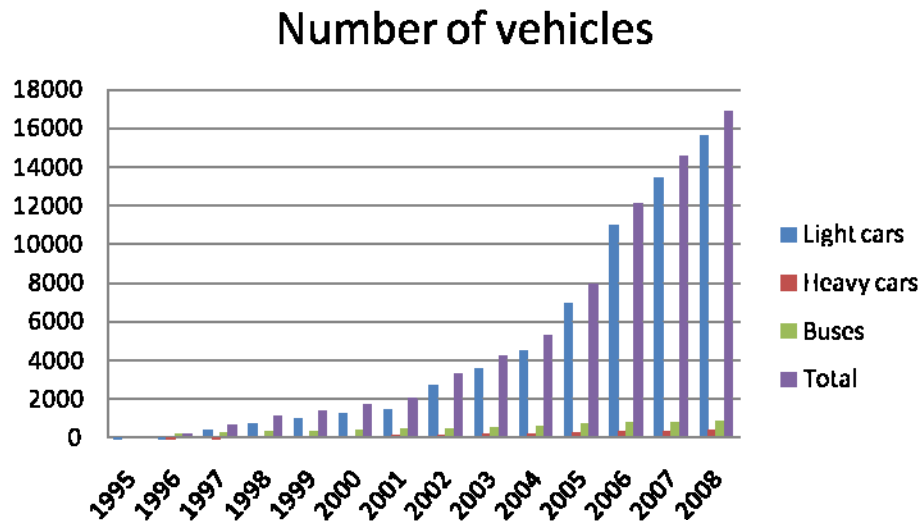
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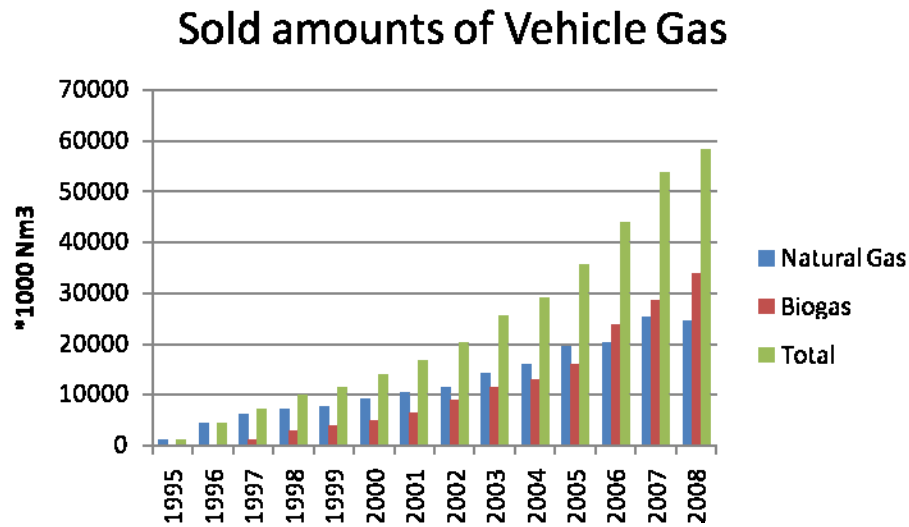
# Filling stations



# Gas vehicles



# Sold volumes of vehicle gas



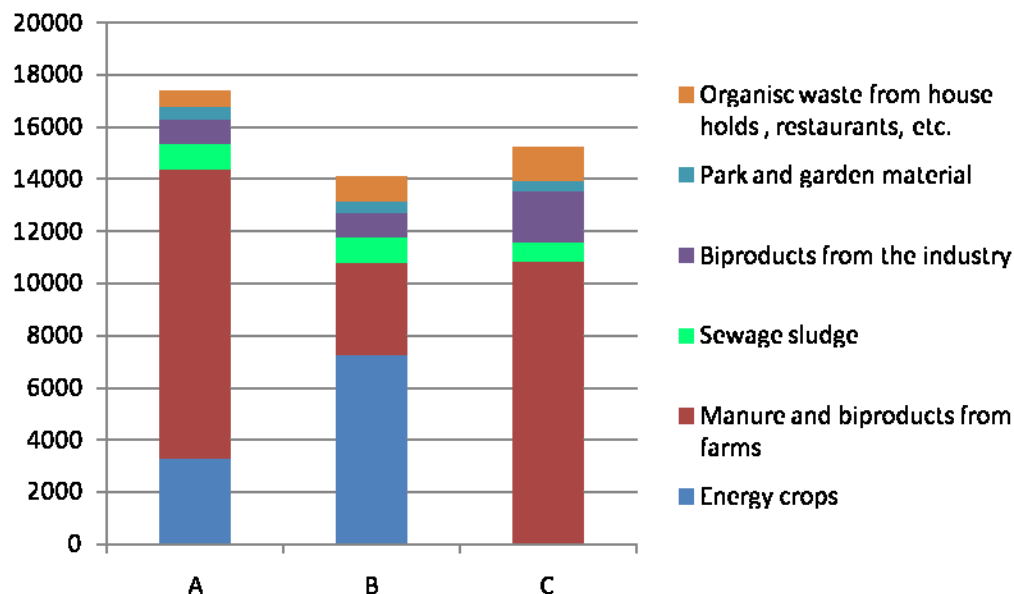
# Biogas upgrading

- In Sweden today:
  - Water scrubber (24)
  - PSA (7)
  - Chemical absorption (3)
- In the near future:
  - Cryogenic



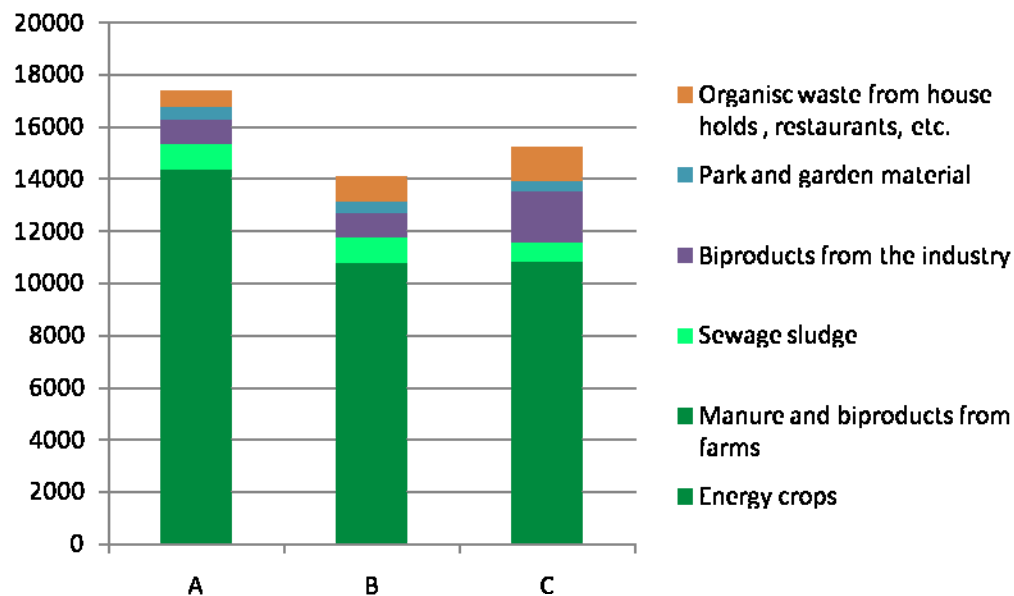


# Potential for biogas production



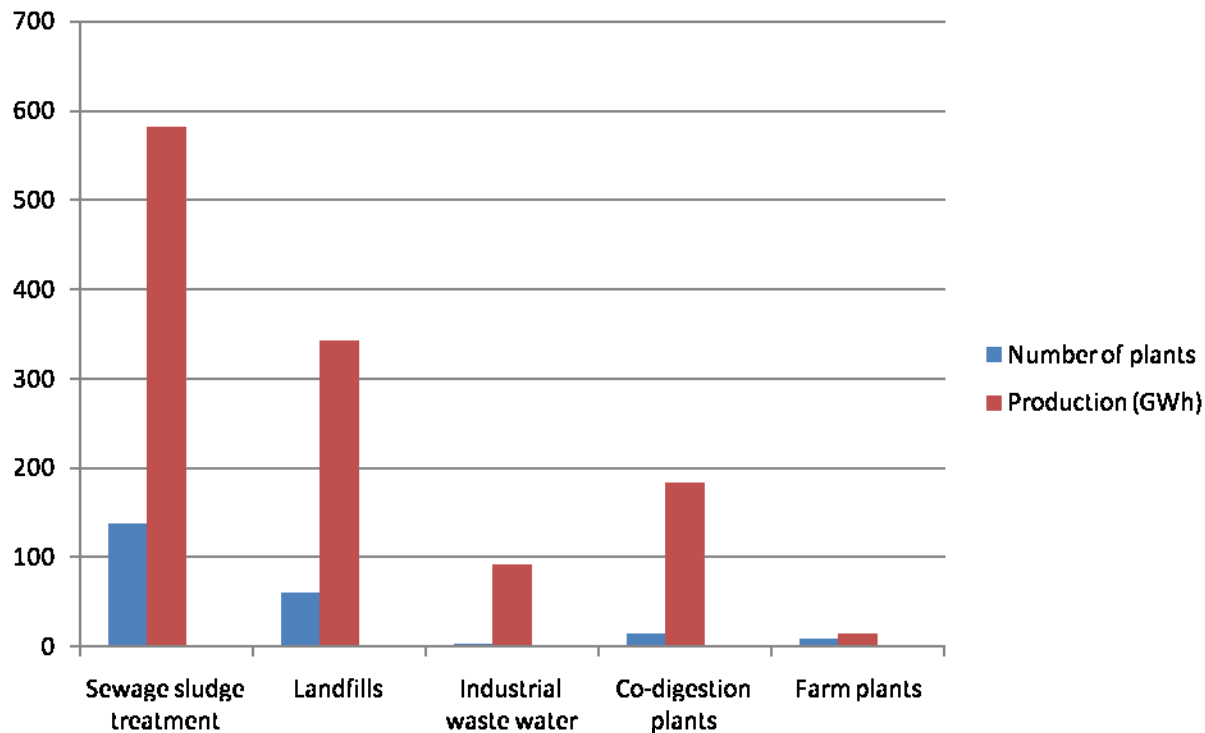
- A: Biogaspotential och framtida anläggningar i Sverige, Nordberg *et al.* 1998  
B: Sammanställning och analys av potentialen för produktion av förnyelsebar metan (biogas och SNG) i Sverige. Linné och Jönsson. 2005  
C: Den svenska biogaspotentialen från inhemska restprodukter. Linné *et al.* 2008

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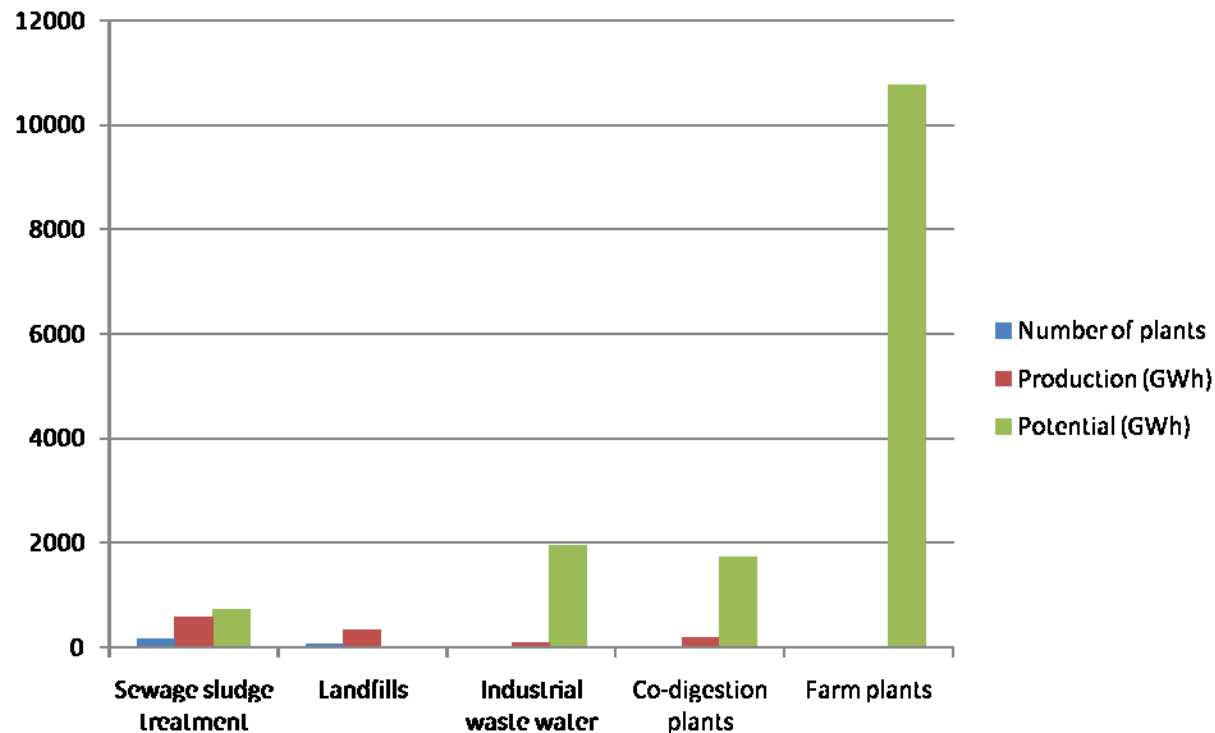


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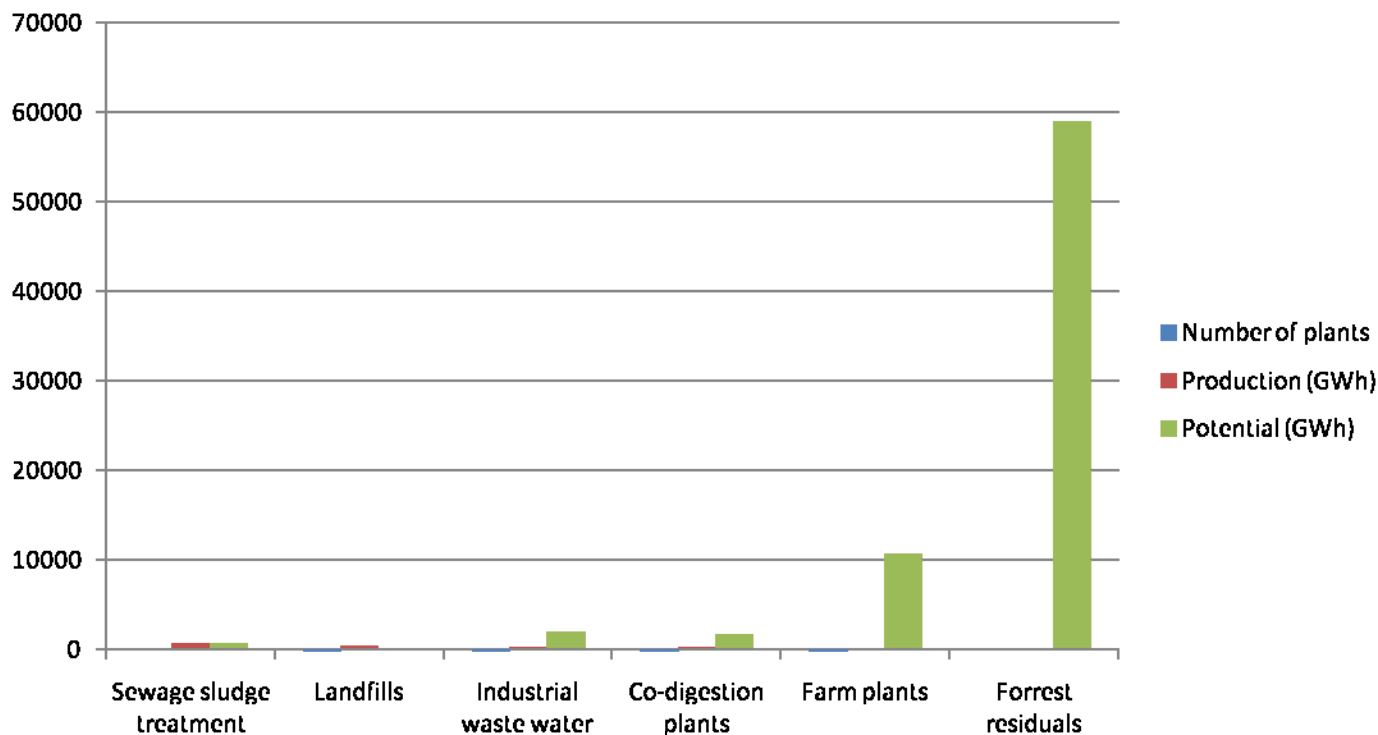
# Biogas production in Sweden 2006



# Biogas production i Sweden 2006 and biogas potential



# Biogas production i Sweden 2006 and biomethane potential



# Publications

- [Biogas from manure and waste products – Swedish case studies \(www.gasforeningen.se\)](#)
- [SGC Rapport 200 Substrathandbok för biogasproduktion](#)
- [SGC Rapport 202 Sammanställning från två seminarier: Kryoteknik för biogasbranschen, LBG - andra generationens fordonsbränsle](#)
- [SGC Rapport 198 Bio-Propane from glycerol for biogas addition](#)
- [SGC Rapport 197 LNG as an Alternative Energy Supply in Sweden](#)
- [SGC Rapport 193 International Seminar on Gasification 2008](#)
- [SGC Rapport 190 Elektroporation för forcerad metanutvinning från förnybara resurser](#)
- [SGC Rapport 188 Demonstration of Software Application Biogas Optimizer™ at the Händelö Biogas Site](#)



# News

- Svanen award (a Nordic ecolabel) for vehicle gas
- Pro-longed investment support for filling stations
- Investment program for farm biogas plants
  - 2009-2013
  - At least 50 % of the substrate should be manure
  - Up to 30 % of the investment cost can be covered (though not more than 200 000 euros per project)
  - Total budget 200 miljon sek
- Cryogenic upgrading and LBG production to be ready 2009 in Sundsvall

Thank you for your attention!

