

ACTA UNIVERSITATIS AGRICULTURAE SUECIAE

DOCTORAL THESIS No. 2009:78

With diminishing fossil fuel reserves and concerns about global warming, the agricultural sector needs to reduce its use of fossil fuels. The objective of this thesis was to evaluate systems for biomass-based production of tractor fuel and mineral nitrogen fertilisers, which at present are the two largest fossil energy carriers in Swedish agriculture. The results showed that the use of fossil fuels to a large extent can be reduced in crop production, as well as the impact on global warming.

Serina Ahlgren received her graduate education and the Department of Energy and Technology. She also received her Master of Science in Agriculture from the Swedish University of Agricultural Science.

Acta Universitatis Agriculturae Sueciae presents doctoral theses from the Swedish University of Agricultural Sciences (SLU).

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FACULTY OF NATURAL RESOURCES AND AGRICULTURAL SCIENCES

Crop Production without Fossil Fuel

Production Systems for Tractor Fuel and Mineral Nitrogen Based on Biomass

SERINA AHLGREN

