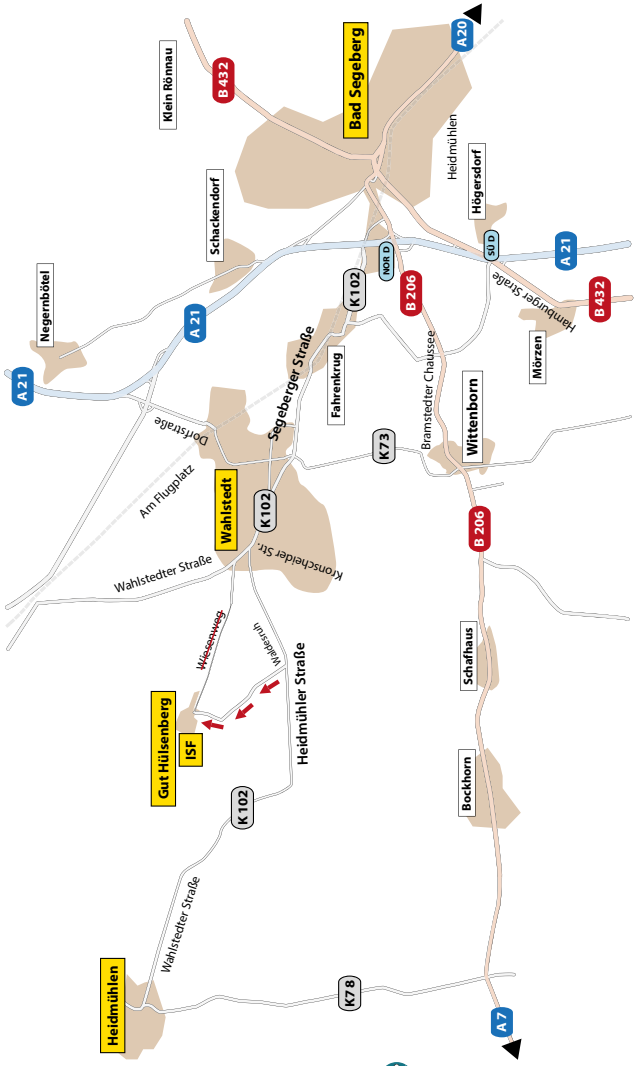

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Available areas
653 ha operating area
Maize, ley, cereals
Peaty mineral, light to loamy sandy soils
(18-35 soil rating points)

Dairy cows
230 cows
12,067 kg milk with 3.83 % fat and 3.32 % protein
New barn with 123 beds built in 2010 (open design, lateral ventilation controllable via shutters, insulated roof, experimental set-up with two groups of 60 cows each)
Refurbishment of older barn in 2012 with currently 105 cubicles (three groups) and three deep-litter calving boxes
Dual 12-point side-by-side milking parlour

Calf barn
New barn built in 2013 for 100 calves in three barn areas: Single boxes, deep-litter section and slatted section with cubicles

Heifer barn
Refurbished in 2012 after 25 years of use
134 cubicles
Heifers from about five months of age

Biogas plants
776 kW field test biogas plant:
526 kW power output and
250 kW via satellite cogeneration plant
75 kW liquid manure biogas plant solely for fermenting cattle manure

Training site for farmers
Internships for tertiary students
Seminars and training events by Huelsenberg Holding

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ISF Schaumann Research

Wahlstedt site
Office, laboratory and technical facilities
Experimental biogas spaces and animal pens located at Hülsenberg Estate since 2013; 17 employees
Fundamental scientific research facilities located at Pinneberg; 16 employees

Laboratory facilities
· Chemical and microbiological analyses
· Physical and technical investigations
Analyses focused on feedstuffs, silages, minerals mixtures and biogas fermenter contents

Focus of investigation
Raw nutrients (DM, crude protein, ash, sugar, starch, crude fibre, ADF, NDF, fat)
Minerals and trace elements, heavy metals, organic acids, lactic acid bacteria, harmful microorganisms including yeasts, moulds, clostridia

Technology centre and biogas test facilities
150 biogas batch fermenters with 1 to 30 and up to 60 l capacity
24 continuously operating biogas microplants with 18 l capacity

Experimental animal pens
For calves, piglets, fattening pigs, broilers and laying poultry