

**GUT HÜLSENBERG**

**ISF**

SCHAUMANN RESEARCH

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180220GB



## GUT HÜLSEMBERG

### 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

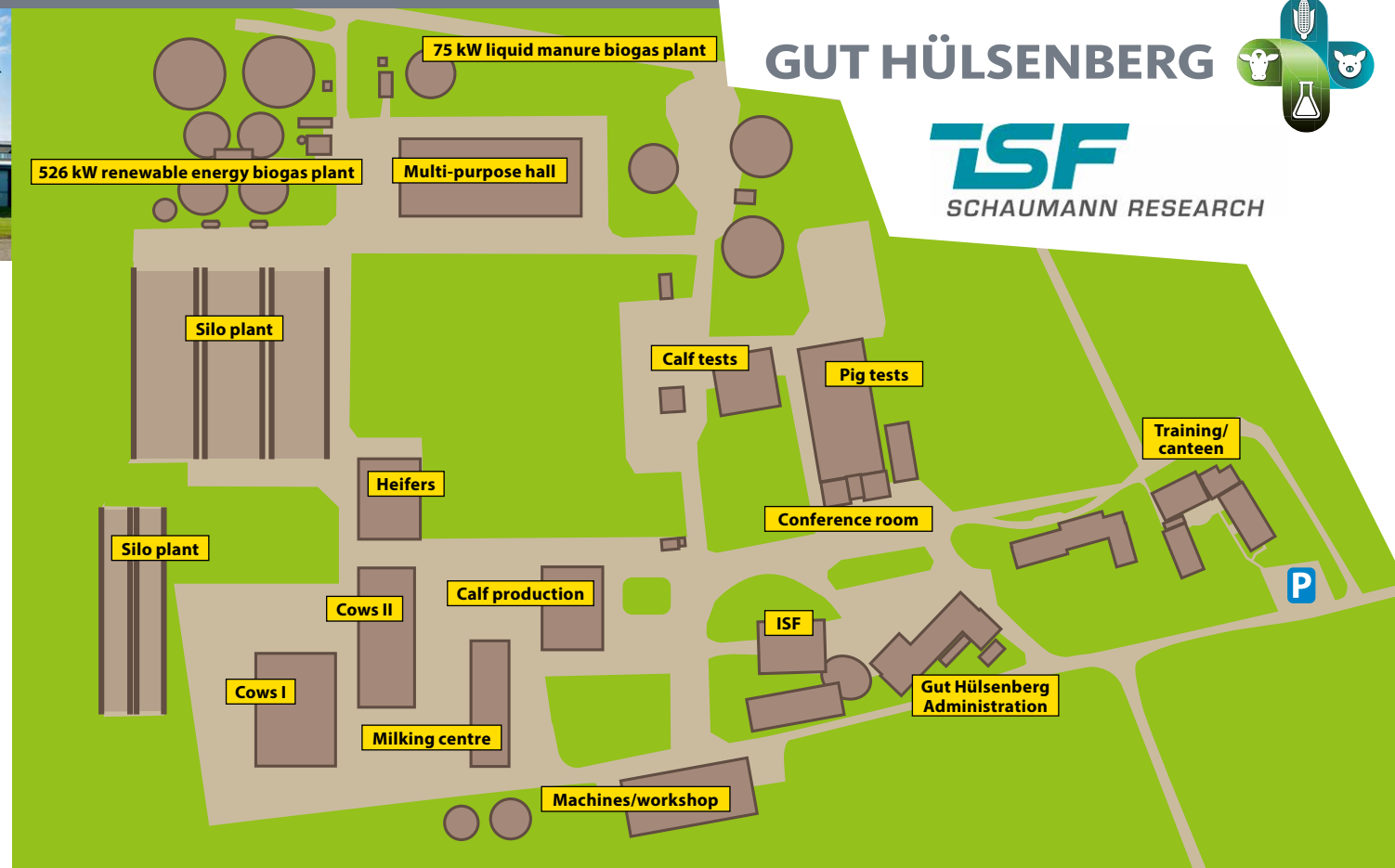
### Heifer barn

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 Hülseberg 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