# Elecritricity consumption during 2010

## Plans and reality

- Plans was following
  - Grain dryer electricity measurement certified installer came after the drying period
  - Viikki cattle house agrotechnology installer started to work in february
  - Maaninka cattle house measurements started last autumn
  - Broiler house measurements are going on
  - Pork production measurements are going on

## Viikki cattle house

The main electricity center is complicated and the meter assemblies need good knowledge to find out the proper measuring lines
Some of the machine electricity consumption can be measured at the power plugs

- The measurements will be strted during spring 2011
- Still more than 1 year time to make the measurements, results comes in time







## **Broiler house**

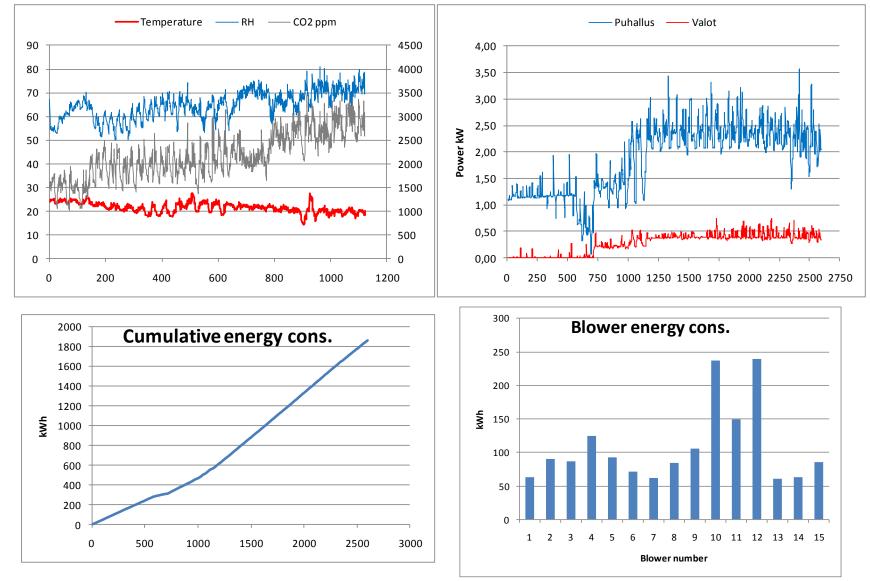
- Ventilation and illumination electricity consumption is going on
- The measurements will last one year
- Besides this also heat losses are recorded
- After next summer the whole year analysis can be done

### Electricity measurements





### Results



#### Results

Feed and water		
water	I	
feed	113527	kg
- wheat (bought)	31190	kg
-start concentrate	12000	kg
- finnish concentrate	10500	kg
- crop	59837	kg
Meat		
- produced meat	48339	kg
Broilers (39 days)		
-arrived	28400	
- dead	1026	
-to slaughter house	27374	
Litter		
- peat	30	m3
Manure		
- amount	80	m3
Water		
- washing water	16500	l
Energy consumption		
- heating	49700	kWh
- blowers	1618	kWh
- illumination	245	kWh
	51563	kWh

			Energy ratio	0,18
Meat - produced meat	•	48339 kg	8,3 MJ/kg	401213,7 MJ
	•			
Arrived broilers	•	3692 kg	Sum	<u>30644</u> MJ 2198573 MJ
Heat Electricity Feed	•	49700 kWh 1863 kWh	3,6 MJ/kWh	210494 MJ 6707 MJ 1950729 MJ

## Pork production

- Feeding machine and milling energy consumption started last autumn
- Besides this also heat losses are recorded
- One year consumption can be analysed after next summer







This material has been produced in ENPOS project. ENPOS is acronym for *Energy Positive Farm*.

The project partners are

- University of Helsinki, department of Agricultural Sciences Agrotechnology
- MTT Agrifood Research Finland Agricultural Engineering
- Estonian University of Life Sciences

Project home page is at <u>http://enpos.weebly.com/</u>

The project is financed by the EU Central Baltic IV A Programme 2007-2013

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