

Profit by low-emission stable

Background

Within the public-private cooperation "Innovations in pig housing" - together with partner-companies and pig farmers - a lot of knowhow is developed regarding to lying and defecating behaviour of pigs and the reduction of ammonia, scent and dust at the source
Goal: reduction of costs and better well-being and results of the animals.

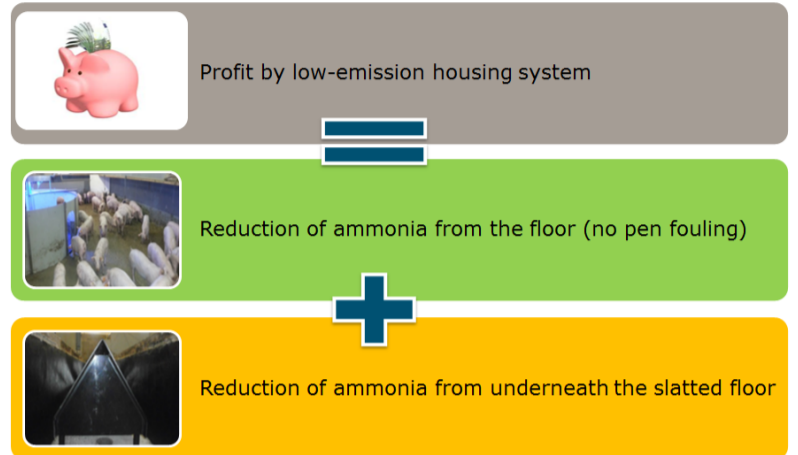
Design

WLR, SIC Sterksel, a network of pig farmers and private companies working together in experimental and applied research and initiatives on practical pig farms. Economics calculations based on KWIN 2014-2015, 4.200 finishers places.

Involved parties



Ministerie van Economische Zaken



Results

This knowledge is now gathered and shared with pig farmers and other stakeholders (download QR-code or www.vicsterksel.nl):

A low-emission (toilet) stable...

...is always a combination of measurements 'above' and 'underneath' the slatted floor

...requires a well-considered construction plan

...requires a 'finishing touch'- mentality of the pig farmer in the overall management



Opportunities for the pig sector

- Improving return on investment of obligated reduction of ammonia: costs air washer **€ 2.50 / finishing pig**. This brings opportunities for an integrated reduction of ammonia, scent and dust at the source, where besides the environment also pig and pig farmer will benefit;
- Cutting back on costs by direct separation of faeces and urine compared to mechanic separation: **€ 3/ place or € 1/ finisher**;
- Cutting back on construction costs: **€ 30/ place**;
- Improving animal welfare, health and performance in the stable;
- Working conditions of pig farmer and his staff;
- CHALLENGE: a combination of measurements can be necessary to reach the aimed reduction and not all systems can be easily realized in existing stables!

	Air washer	Belts
Electrics	1,2	0,05
Acid	0,7	-
Maintenance	0,7	1,0
Water and effluent	0,8	0,3
Separation manure	3,0	-
Totaal (€/dp/jr)	6,6	1,35

Investment (euro per pig place)	Completely cellared & air washer	25% cellar + manure trays + storage manure	25% cellar + manure belts + storage urine/faeces
Building stable (incl. general costs)	315	265	225
Airwasher	30		
Manure trays		25	
Manure belts			60
Lay-out housing incl feed/ climate	95	95	95
Storage manure (extern)		25	30
Total	440	410	410
Housing costs	40	37	36

Biogaspotentieel als functie van ouderdom mest

