



**ZONVARKEN** ★★

# Revolutionary Pigfarm

Animal friendly

Environmental friendly

Farmer friendly

Climate-friendly

Neighbourhood-friendly

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Zonvarken (Sun Pig) is an initiative of four entrepreneurs with roots in conventional and organic pig farming. Cooperation Zonvarken sets up small-scale pig farms. Partly under own management, partly by joining farmers.





2018 / 2019

newspaper items about pigfarming

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**Party for the Animals accuses government being lax about piglet mortality**

The curse of eating meat; bad for climate, environment and people

**Resistance to building mega farms**

77 Arrests during stable occupation in Boxtel

**Millions of pigs less, how much nitrogen emissions can be saved?**

Get rid of the smell; money for pig farmer who stops

**900 pigs suffocated in stable due to power failure**

All 2500 pigs die in fire in Didam

**Farmers struggle for their survival**

Many farmers have been living in poverty for years

**“difficult to hold on to the passion for pigs”**

Use of Soya contributes to deforestation

**Farmers should switch to circular agriculture**



# Zonvarken solutions to these themes

**Piglet mortality**

Robust breeds & extra labour at birth

Meat vs. climate

Steps to climate neutral pork

**Mega farms**

Small-scale (family owned) farms

Stable occupation

Many extra's on animal welfare

**Nitrogen emissions**

Avoid liquid manure + daily removal of manure

Odour nuisance

**Suffocated power failure**

All animals can go outside 24 / 7  
+ natural ventilation

Pigs die in fire

**Struggle to survive**

Farmers with a socially accepted system  
with sales and price guarantees

Farmers lives in poverty

**Keep the passion**

Use of soy

Circular feed without use of  
soybean expeller

**circular agriculture**









### **SSF- Family Loft System (Specific Stress Free)**

- Sows are kept per 2 during lactation
- Piglets stay in the same pen with straw from birth to slaughter
- Weaning at 8 weeks by moving the sow
- This system prevents stress and improves well-being



### **Outdoor grazing & rooting**

- The pigs are kept at least at welfare rules that are applicable to organic farms as well
- In addition: pregnant sows have access to the meadow.
- But also the fattening pigs periodically come on unpaved surfaces to root. !



## Unique 100% circular feed

- All Zonvarken pigs are fed completely with former foodstuffs and co-products of human nutrition.
- No feed – food competition
- No agricultural land is needed to grow their feed.
- The carbon footprint of this feed is considerably smaller



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unsold bread  
 seavings of crackers, chips,  
 cookies  
 wheat semolina  
 co-products of meat  
 substitutes  
 malt sprouts  
 oat hulls  
 apple molasses  
 apple pulp  
 peanut expellet

## The way to climate-neutral pork

- Circular feed: 50-60% CO<sub>2</sub> reduction depending on recipes + where to compare with;
- On the roofs of our stables is sedum (green roof) and solar panels
- Innovative manure separation reduces the greenhouse gas methane by up to 90%
- Once the separated urine has been accepted as a substitute for chemical fertilizer, we should be able to produce climate neutral pork.



## Ultimate separation of manure and urine

- No phosphorus detectable in the liquid fraction
- Minimal ammonia emission (nitrogen) by avoiding existence of liquid manure
- Maximum reduction on methane and smell!
- Less nitrogen washout of nitrogen on land compared to chemical fertiliser and liquid manure.
- Straw rich manure contributes to bio-diversity

