

# MORE HUMANE LARGE SCALE DEPOPULATION

Large scale handling of animals due to outbreak as Avian Influenza, African Swine Fever, Salmonella, closed borders or others



OUR TECHNOLOGY IS

## SCALABLE | SAFE | EASY TO USE | RELIABLE

### OUR SOLUTION

At HEFT, we develop and offer sustainable solutions to end the life of pigs and poultry in a more humane way.

Our technology is based on nitrogen induced high expansion foam to create an anoxic atmosphere with less than 2% oxygen.

- Nitrogen expansion foam stunning (NEFS)
- Easy to transport, retrofitted dumpster/ISO containers
- Scalable technology for small and large operations
- Quick setup and efficient throughput
- Animals may be processed by their own and in cages
- Developed in line with upcoming depopulation guidelines (e.g., AVMA, EFSA)

### AN EMERGENCY SOLUTION WITH THE ENVIRONMENT IN MIND

Our nitrogen foam system is built for both animal welfare and sustainability



Plant-based foam



Low water usage



Nitrogen – a natural, abundant resource



Minimal waste

## OUR NITROGEN BASED METHOD



### PROCESS

- 1 In 30 seconds the container is filled with foam. The bubbles contain 100% nitrogen.
- 2 A burst of nitrogen is added, the bubbles break in 1 second and a homogeneous and anoxic atmosphere is created (<2% oxygen).
- 3 The animals lose consciousness within 10-20 seconds and will be irreversibly stunned with minimal stress and pain.

### BENEFITS

- High expansion foam controls the gas, pushes out the air and makes the process quick.
- No occlusion of airways due to dry and large bubbles that burst quickly to release the gas.
- Animals have no receptors that make them react to the instantaneous change of atmosphere with nitrogen levels from 78% to 98%.

**75%** **GAS SAVINGS**  
Reduced gas consumption compared to regular gas flushing

**H<sub>2</sub>O** **LOW WATER CONSUMPTION**  
~1,3 liter per m3  
Expansion ratio 1:700-850

With over 15 years of dedicated research, our technology is grounded in science and validated by leading academic institutions and researchers across Europe and the United States.