Sustainability and Climate Change Agency, Chile

National Designated Entity of CTCN

August 23, 2019, Climate Week Salvador de Bahía, Brasil

MISSION

To Promote sustainable production in chilean enterprises, with an emphasis on SME's, in a public/private dialogue and participation context

About us

- Voluntary agreements
- Technology transformation
- Promotion and Subsidies
- Relationship with the private sector

Case Study

"Energy and Environmental Technology Transformation Program for the SME Segment of the Pork Industry"



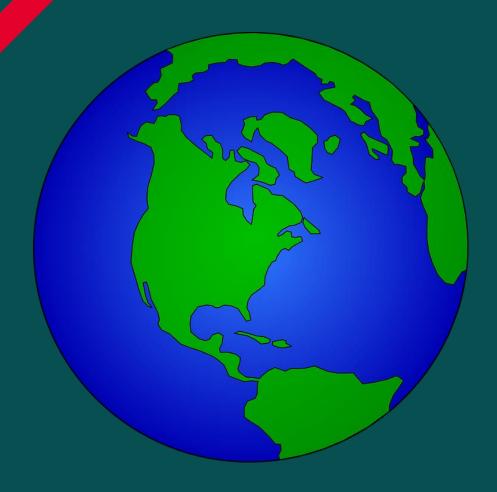








PORK INDUSTRY PRODUCTION IN CHILE



- Chile, 5th place in the International Ranking of Exports
- Export to 64 country
- 63% of its production is exported to high demand countries (Japan, South Korea, Russia and China)
- 2.43 million pigs.
- But the SME's don't comply with environmental standars
- 33 SME's in Chile

Objective

Promote, in the SME's, the use of energy and environmental technologies for the treatment of pig slurries that allow sustainable production in the long term, by reducing GHG and NH3, making the activity compatible with nearby communities

Program Cost: US\$ 680.000



Program Components

Diagnostic: sector, territory and companies

2

Technology Evaluation and business model 3

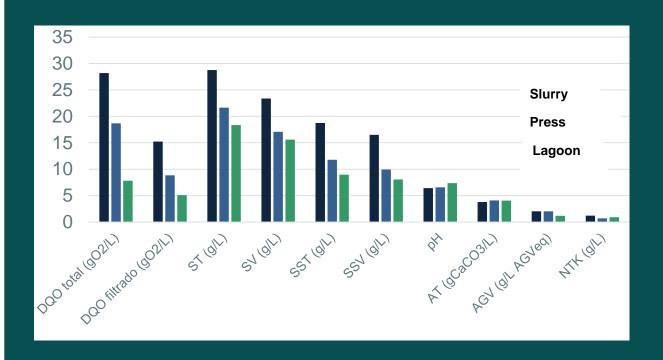
Technical, legal and financial feasibility

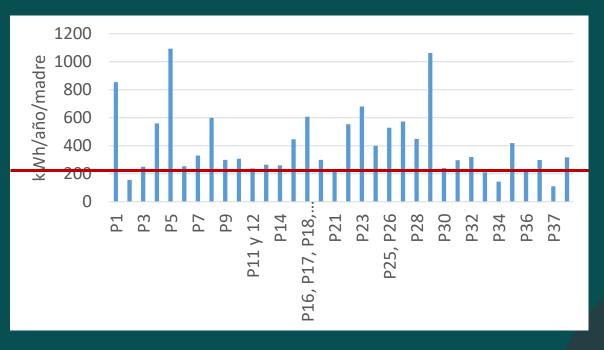


Program Results



Program Results

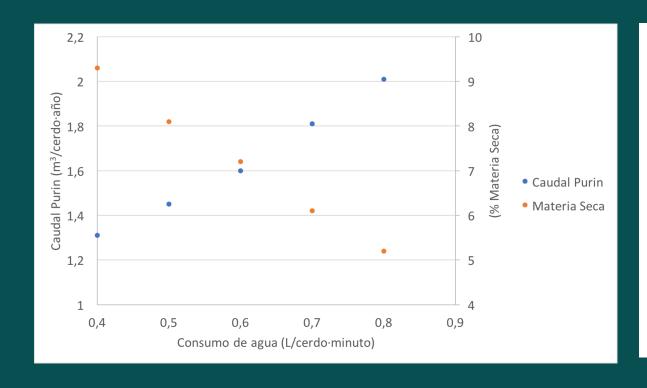




Characterization and quantification of critical parameters

Mother pig energy consumption per/year in farms

Program Results



Odor emissions, GHG y NH₃

Total*: 219 Ton NH3/year

Total*: 70.000 Ton CO2eq/year

Flow of slurries v/s water consumption and concentration of slurries in farms

Total number Diagnostic farm

Final results

- 23 Anaerobic Digestion projects
 - 2 Nitrogen removal projects

25 Projects for SME's

Total Investment (CAPEX) USD M\$ 10,7

Reduction 23.000 Ton CO2 eq/year GHG (only treatment)



Additional Benefits

Biogas thermal utilization options

Fossil fuel replacement * GHG reductions

Obtaining stabilized digestate

Latest generation organ-mineral fertilizers

Reduction of odor emissions

Minimization of socio-enviromental conflicts

SME Transformation

More Sustainable country



Whats Next?

Legal Requirements

Entrance of projects to the environmental impact assessment system

Financing options

Traditional Banking, Green Credit (State), Green Investment Platform

Sustainability Program

Strengthen the country's agro-export image in international markets as a provider of safe, healthy and sustainable food 236 M US\$





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