



Energy Efficiency in the Beverage Industry

Eckes-Granini-Germany The Juice Brand Company Tokyo 10. July 2014

we bring the best of fruit for a healthy and enjoyable life

Agenda





- Introduction
- The company
- The Products
- Energy Efficiency in the Bev. Industry
- Achievements
- ECO Management Audit Scheme
- Questions / Answers





Reiner Pfuhl

Mechanical Engineer

Eckes-Granini Germany for 10 years

Director Supply Chain

Member of the German Board

Environmental Manager

Historical Background

1857



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CKES Same and Same and Sa Same and Same	1930s	Eckes Grape Juice is the first juice product marketed.
All	1958	hohes C is introduced.
	1993	Systematic international expansion begins.
granini	1994	Eckes acquires granini.
Erras 84	2006/2007	The spirits division is sold off.
ECKES granini the best of fruit	2007-2012	Eckes-Granini continues to expand as a 100% juice company
and the		

The Eckes Distillery is founded.

Eckes-Granini acquires Pago

Natural Fruit Dago Best Faste

2012



Market segments

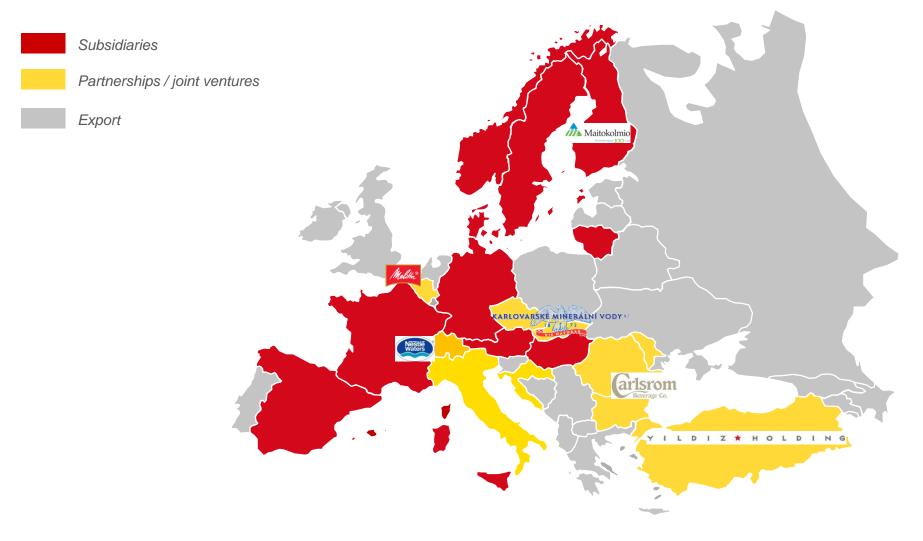


Core business encompasses ambient juices/nectars complemented by syrups, freshly squeezed juices and fruit-based refreshment drinks.

Internationale Expansion



Growth via strategic partnerships











Our Products





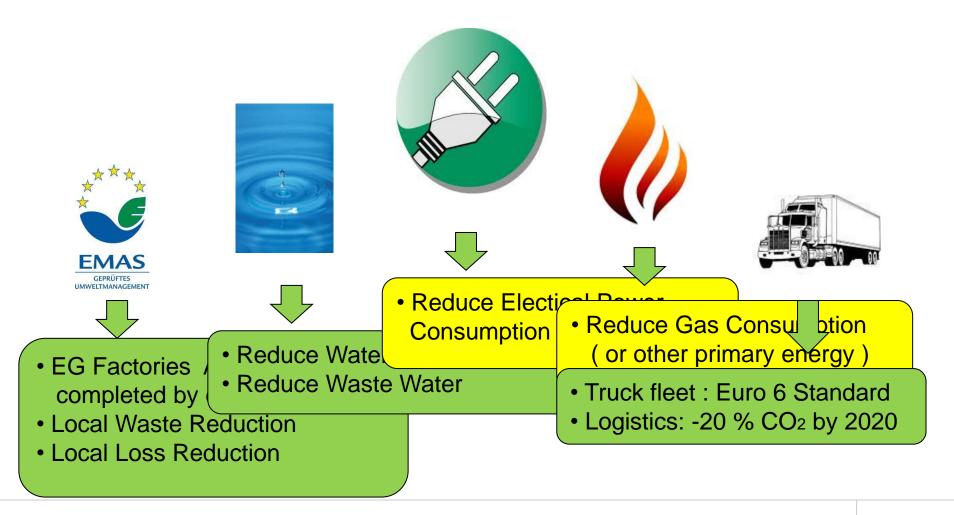


10 factors consumers expect regarding sustainability:

- \succ Contribution to increase quality of life, Reponsible dealing with resources Engagement for environmental topics >Good relation with environmental organisations \succ Environmentally friendly technologies >Strong engagement for charity projects >Match with legal regulations Get environmental awards Clear statements about environmental initiatives
- >Finally, fair play with competitors and partners.

Sustainability Progress in Operations / Logisitcs

Core Initiatives





How we define new projects :

Internal Continous Improvement Teams

• Network with Key Suppliers

Network with Sustainability Organisations

PET Process







Previous Solution	New Solution	Effect
Bottle weight high (PET bottles)	Bottle weight reduced by 15 %	Less heat for bottle blowing
Steam heating on various locations	Shut of consumtions, find leaks (use thermo camera)	Less gas consumption
Air compressors running On/off mode	Freqency controlled compressors	Less electrical energy
Compresssed air lost at bottel blower	Recycling of compressed air	Less electrical energy, Prevent Investment
Shrink pack with electrical heat	Shrink pack with gas heat	Fast start up saves energy
Sterile water preparation by steam	Sterile Water by filtration	No steam consumption

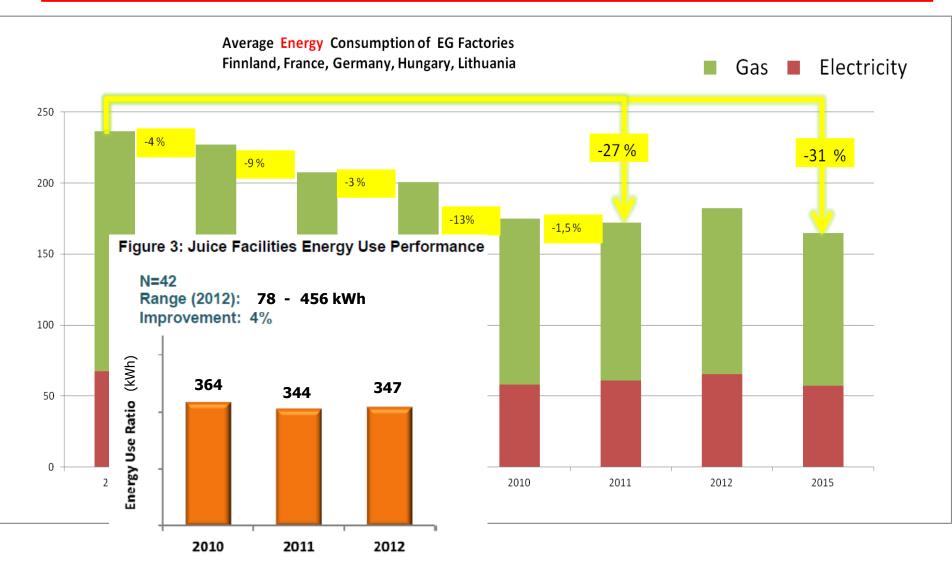


Previous Solution	New Solution	Effect
Long cleaning cycle on filling machines	Short intense cleaning cycle	Energy & water savings
Preform radiation heating	New specific radiation	Energy saving 10 %
External Sourcing of electricity	Inhouse 10% of electricity from gas	20% better energy utilisation

Energy Consumption (kWh/1000L)

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ECKES granini

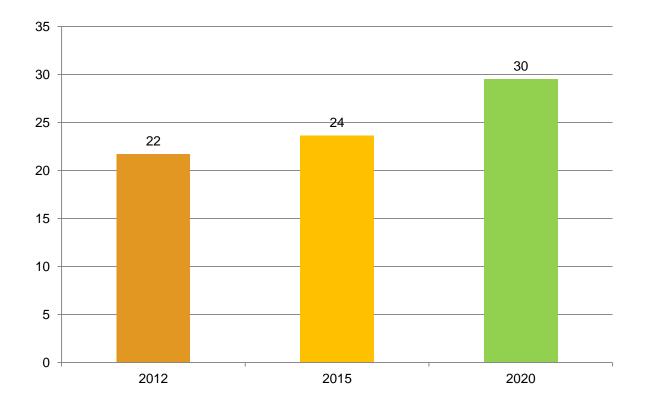


Renewable Energy



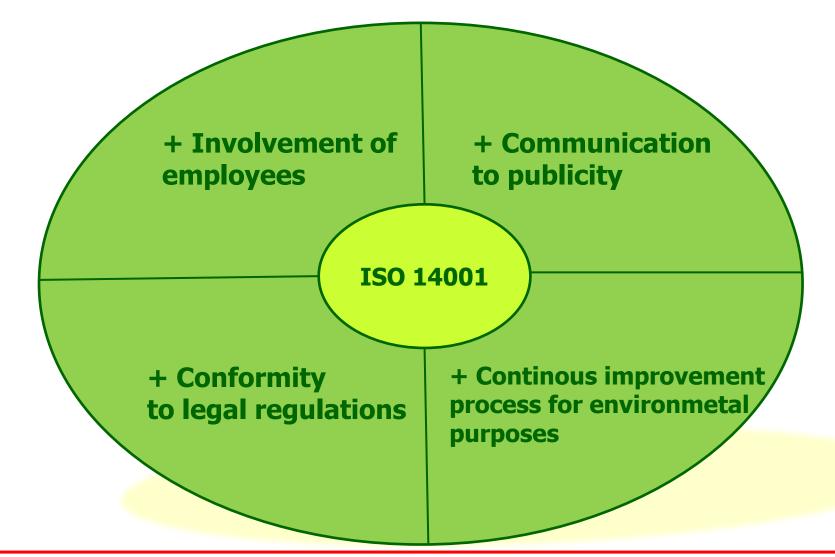
Weighted renewable energy

Pecentage of Renewable Energy from Electricity Used of Finland / France / Germany / Hungary / Lithuania



EMAS – Eco Management Audit Scheme the best of fruit

→ The reliable environmental management system in EUROPE



EGD / SC / RP / 20140304



Our distinctive sustainability philosophy



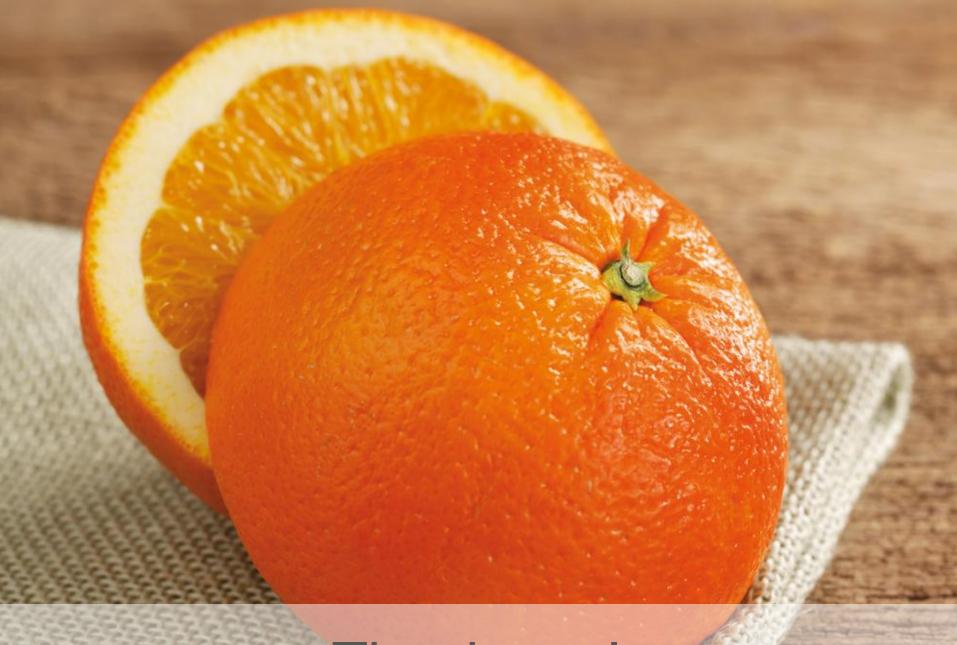
© 2013 Eckes-Granini We strive to balance the social, economic and ecological impact of our business activities.



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Sustainability at Eckes-Granini





Thank you!

The man