Franz Hölzl

Franz Hölzl graduated from the University of Linz with a degree in Informatics. He joined Spar Austria in 1978. From 1988-2008, he was the CIO of Spar Austria. Since 2008, he has been the head of sustainability.
Our strategy and results concerning energy efficiency and GHG reduction on supermarket level

Franz Hölzl
Head of Sustainability
Spar Austria
Agenda

1. Few words about SPAR
2. Energy Efficiency
3. GHG Reduction
4. Natural refrigerants
SPAR is represented in 44 countries on four continents

12,500 SPAR locations world-wide

But: SPAR countries act autonomously and independently of one another!
On our way to a Central European retail group
The business year 2016

- food retail business in **Austria**: turnover of **6.42 billion euros** (+5.3%)
  - 1,620 outlets (SPAR, EUROSPAR, INTERSPAR, Maximarkt)
  - approx. 42,800 employees

- turnover of the SPAR Austria Group: **13.80 billion euros** (+4.8%)
Energy Strategy SPAR

• By 2050 SPAR will have
  • 50% reduction in energy consumption.
  • 90% less GHG Emission.

• Compared to 2009
Climate Change threatens SPARs Supply Chain

Weather Impact  PERU

“El Niño Costero”
March 2017
Update 27-03-2017
Energy Efficient Supermarket: - 50%

ES - Ried, Goethestraße
1.266 m²
Investment renewable energy: 50 Photovoltaics

Solar Energy

Supermarkets need most of their energy, when sun is shining
Our Goal: - 5% annual reduction of GHG per m² sales area:
32% Reduction since 2009

Hotspots are
• electricity
• refrigerants, because 50% of our GHG emission are caused by R404a
Energy Efficiency CO₂ refrigerants?

Energy consumption  \( \text{CO}_2 / \text{R134-CO}_2 \)
CO₂- Cooling: Learnings

• 4-6% less energy per year
  • but more energy consumption during summertime

• +4,5 % Investment in 2017
  • will be reduced to equal costs in 2019
Summary:

• Climate Change threatens our supply chain
• Climate change threatens our society

• Energy efficiency is a must in all our sites!
• Run Supermarkets without fossil energy
• Replace HFCs!
Thank you for your attention!

Questions: gerald.geiger@spar.at
• 2014:
  – VK 1.321 m²; 549.034 kWh; 416 kWh/m²VK
• 2015: Abbruch und Neubau lt. SPAR - MHB
• 2016:
  – VK 1.266 m²; 267.617 kW/h; 211 kWh/m²VK

Ergebnis: - 49%
Energy Efficiency: outside and inside the supermarket

- DGNB Standard
- SELT
- Construction material
- Heat Shield
- Efficient Pumps
- Heat Pump
- Mainly air heat pumps
- Heat recovery
Energy Efficient Store Equipment

- LED Lighting
- CO$_2$-refrigerant
- Bakers oven
- Kleingeräte
- Warmwater
- Scales
- Slicing machines
- Cash registers
- IT-equipment
- Reverse vending systems