

VYBAVENÍ PRODEJNY 2024

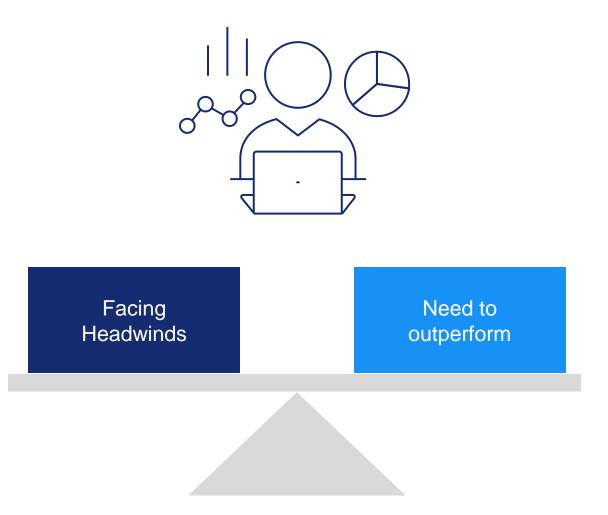
Marián Bacmaňák

Praha 12.11.2024



Food Retailers in complex environment

- Fight Inflation
- Control cost
- Mange shortage of skilled workers
- Fulfill directives like
 F Gas regulation



- Maintain the store attractiveness and customer loyalty
- Increase Sales and market share
- Implement sustainability concepts

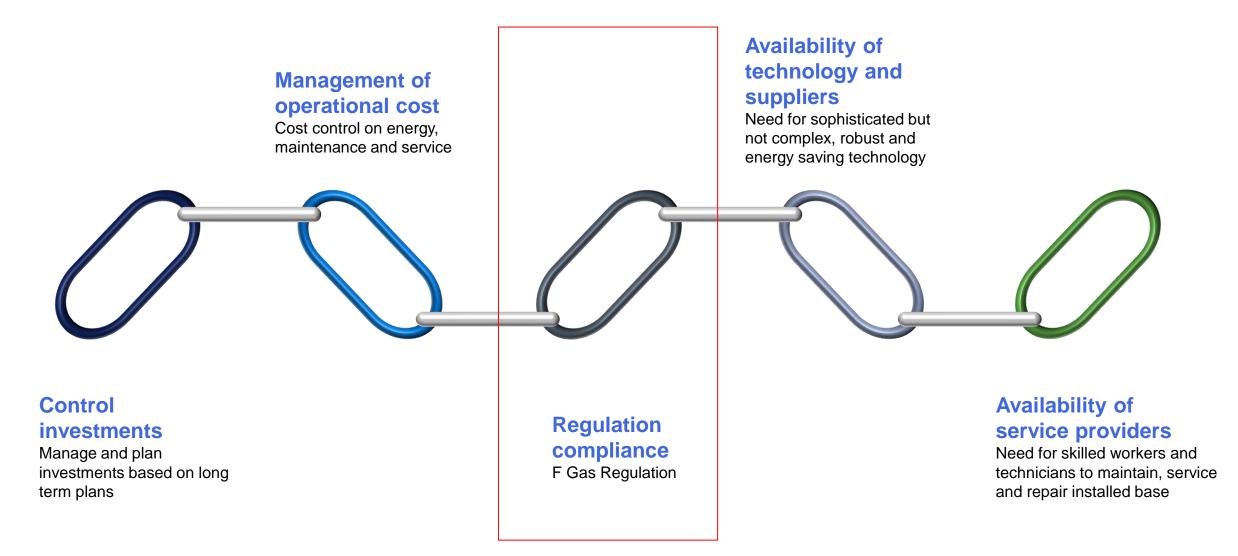
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Pressures in the refrigeration world



Carrier

Are you sure you are taking the right actions?

Wrong decisions risk the operational safety



Frankfurter Neue Presse

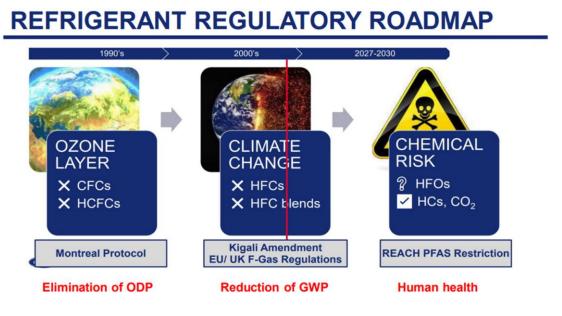
A supermarket in Oberrad causes anger and ridicule: shelves are empty, no cooled and frozen goods available

Loss of reputation Food loss Angry customers Revenue decline

Conflict with authorities Loss of market share



What's happening in F Gas Regulations

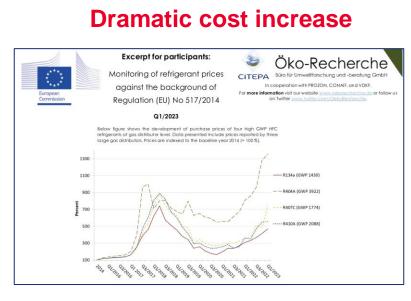


Global Warming Potential	Example of Refrigerant	Type of Refrigerant	2024	01/01/2025	01/01/2030	01/01/2032
GWP > 2500	R-404a, R-422d	New	Ok*	No	No	No
		Regenerated	Ok	Ok	No	No
2500 > GWP > 750	R-134a, R-448a, R-449a, R-410a, R-407c, R-407f	New	Ok	Ok	Ok	No
		Regenerated	Ok	Ok	Ok	Ok
750 > GWP	CO2, R-290, HFO	New	Ok	Ok	Ok	Ok
		Regenerated	Ok	Ok	Ok	Ok
(*) Only for Circuit below 40 Teq. CO2						
Quotas Reduction		In Percentage (%)	- 31%	- 48%	- 74%	- 89%
		In Tones Eq. CO2	56,700,00	42,874,410	21,700,000	9,132,097

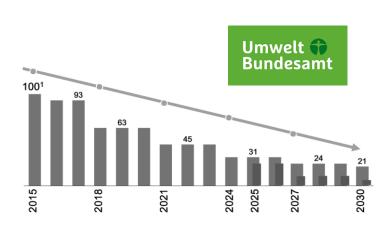
- Phase down, Quota reduction, Price Increases
- HFO blends are promoted as Replacement solution



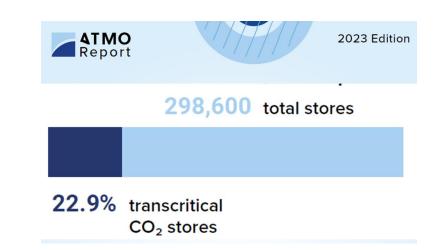
Consequences of revised F-Gas Regulation



Lack of availability



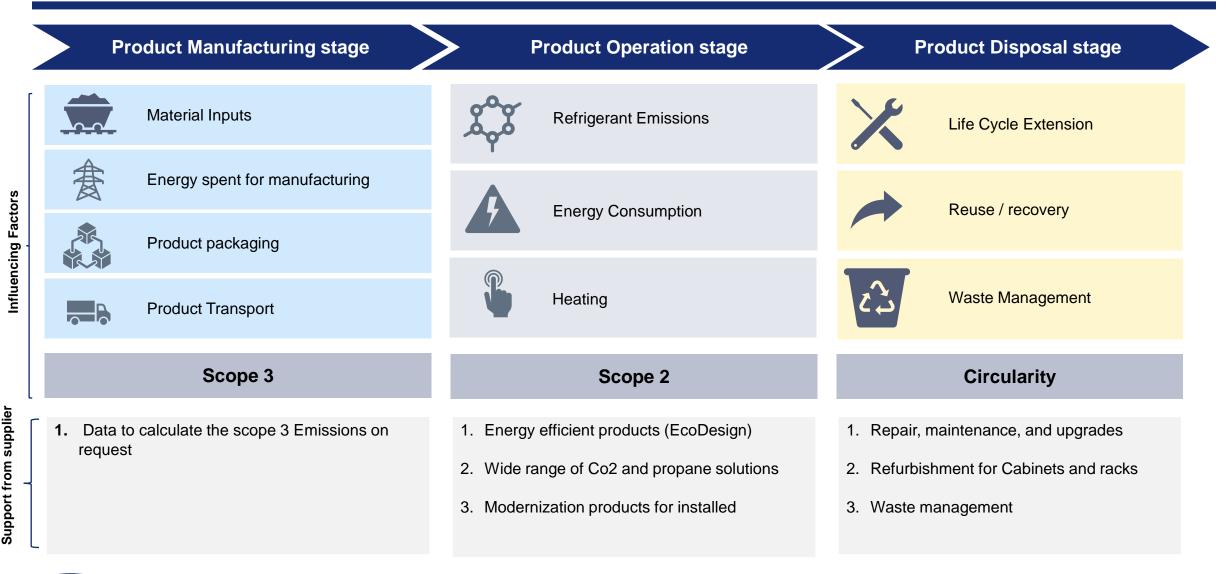
Gigantic demand



2021 vs. 2024 + 170% on F Gas refrigerants In 2024 - 72% of F Gas quota Starting 2024 > 200.00 Stores to be remodeled before 2030 & 2032

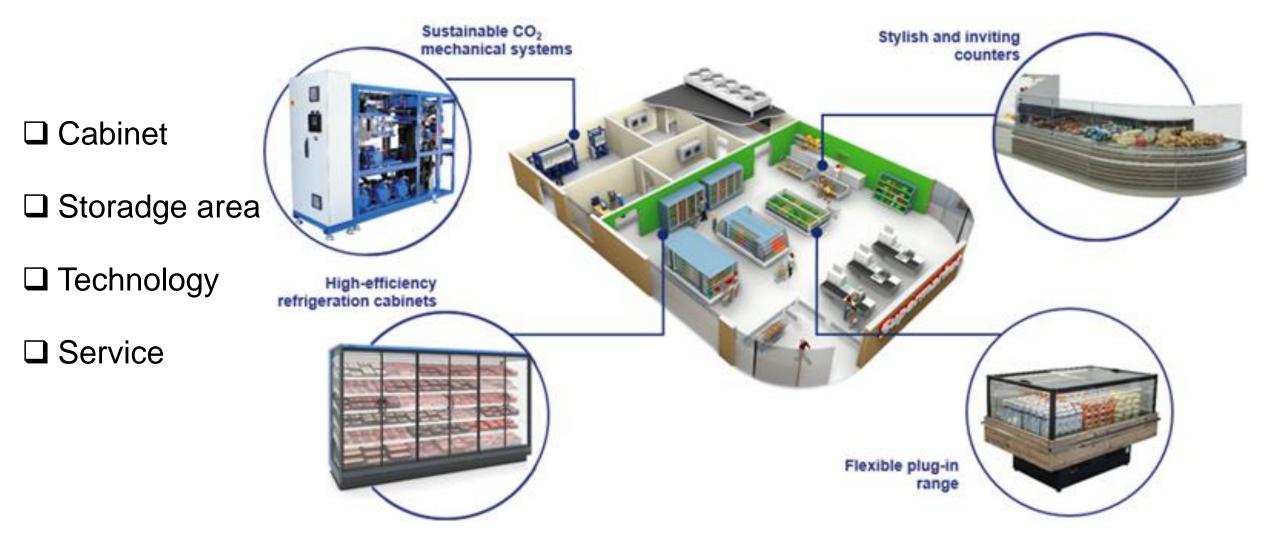


Life cycle emissions of the product and reporting sections



Carrier

Food retail store







□ Change of preferences

□ Modularity

□ Suistanability

□ Connectivity



Merchadising	Remote monitoring			
Temperature performance	ιππονατιοπ			
Price	Ergonomics			
	Alarm handling			
Delivery tim	e Installation			
Energy efficiency	Serviceability			
Safe	Design			

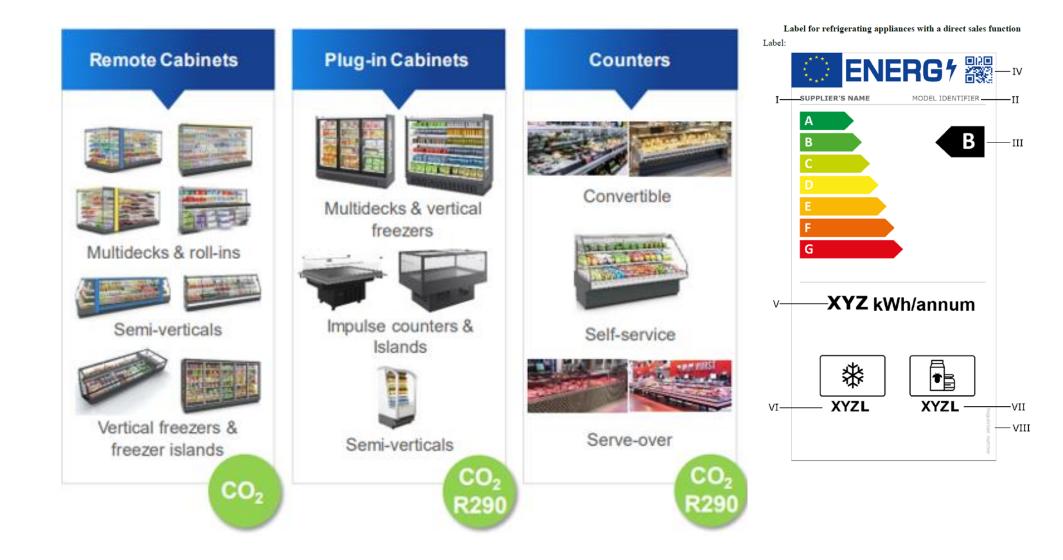


Cabinet

Plug in

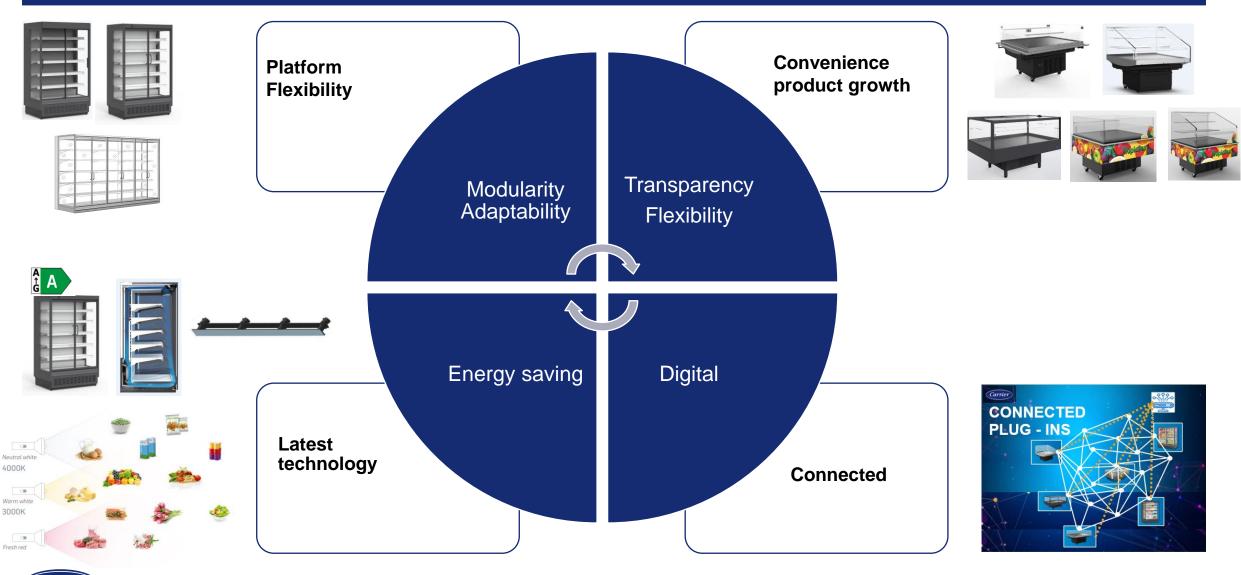
□ Remote

Hybrid





Cabinets - products focus – plug ins



Cabinets Multidecs







Counter

















Cabinets Frozen













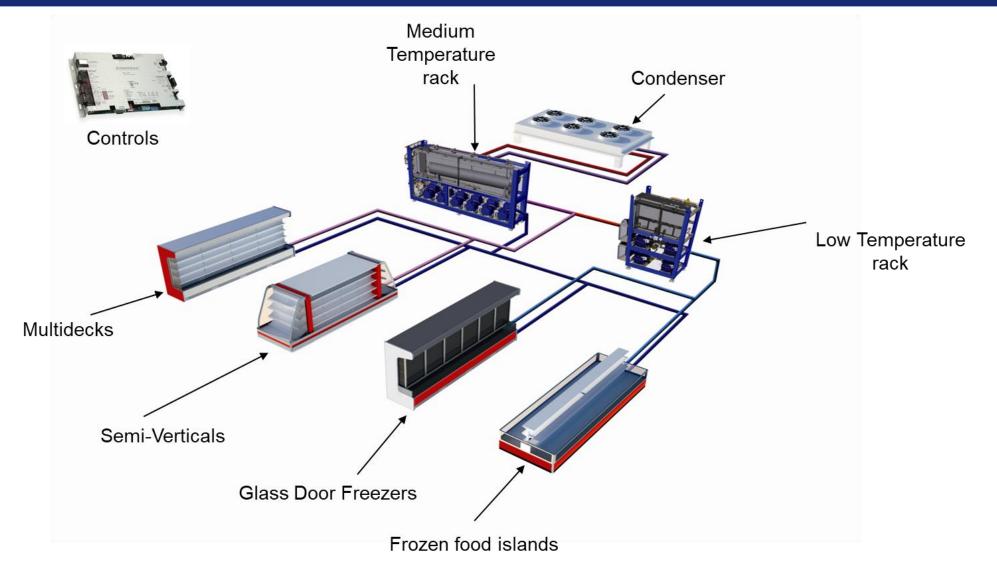






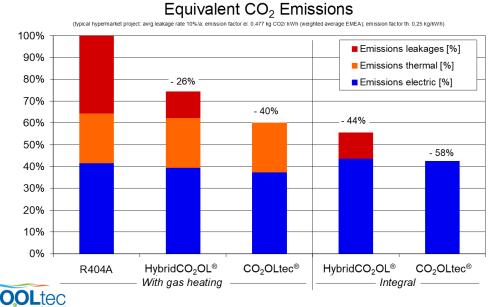
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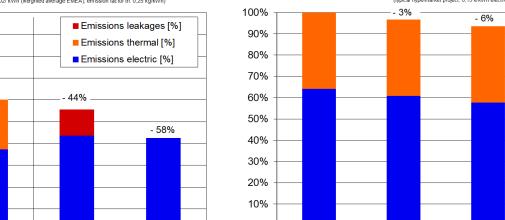
Technology



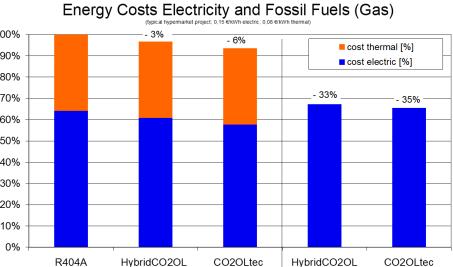






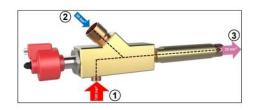


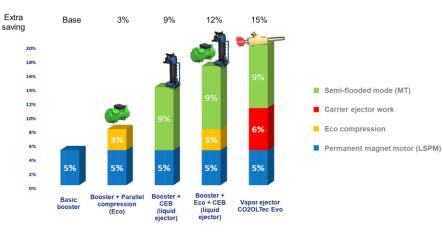
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With gas heating

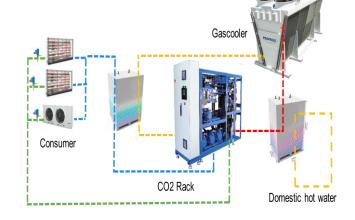
COOLtec







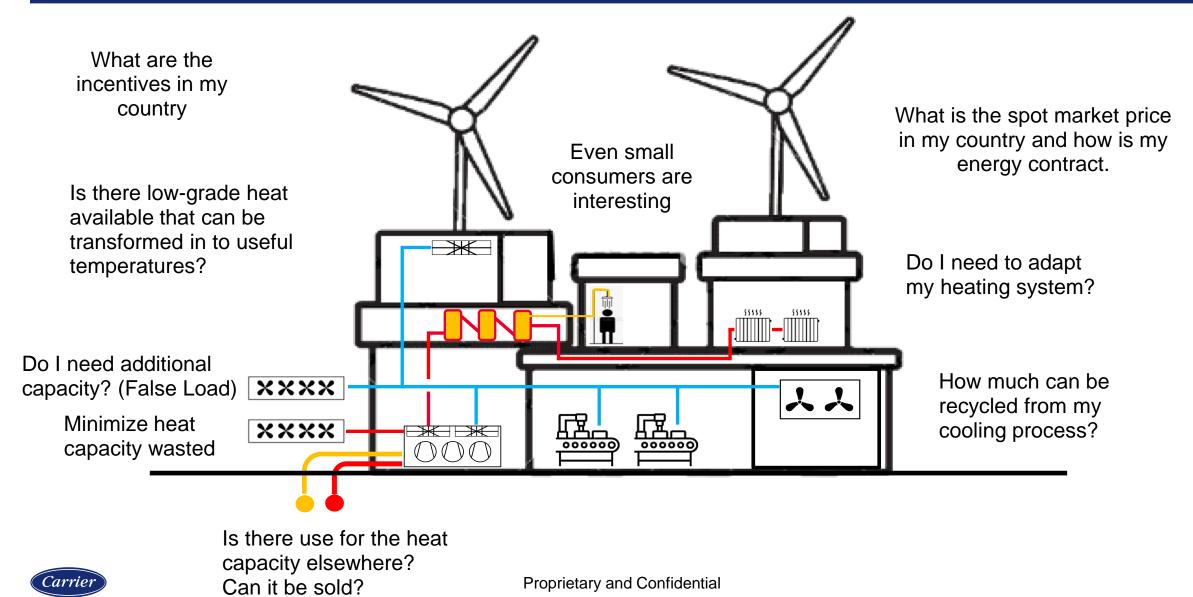
Integral



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What should we ask ourselves?





INTEGRAL CO2 SYSTEM / Monovalent Heating Equipment

Traditional:

- Cooling by refrigeration system
- Heating by combustion system

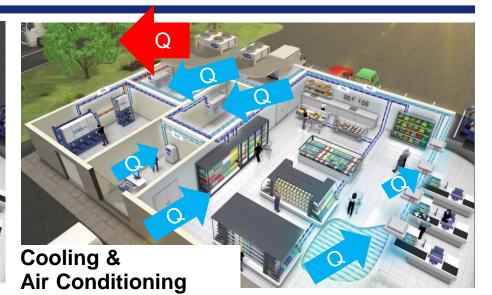
/w Heatrecovery:

- Heat from refrigeration system partly "re-used" (e.g. for tap water)
- Combustion system reduced

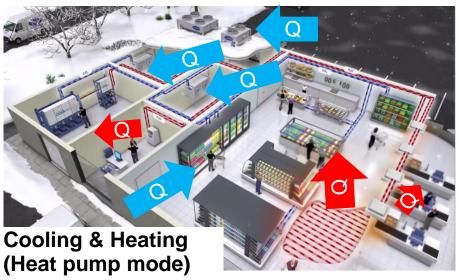
Integral System:

- Refrigeration system deliver all needs to the Building (Cooling, A/C, Heating)
- Combustion system removed











A New World



