



The cold store of the future

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Cold Chain Federation

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Overview

Overview

Part 1

- The big picture

Part 2

- Proven technology is available to reduce cold store carbon emissions

Part 3

- Turning words into actions

The big picture



Part 1

The big picture

The big picture

- Cold Chain Federation change agreement for cold stores.
- Identifying where we can make the most impact
- Practical steps to reduce emissions

Part 2

The technology is
here



Part 2

The technology is
here

Advanced ammonia absorption or 'Triple A' refrigeration

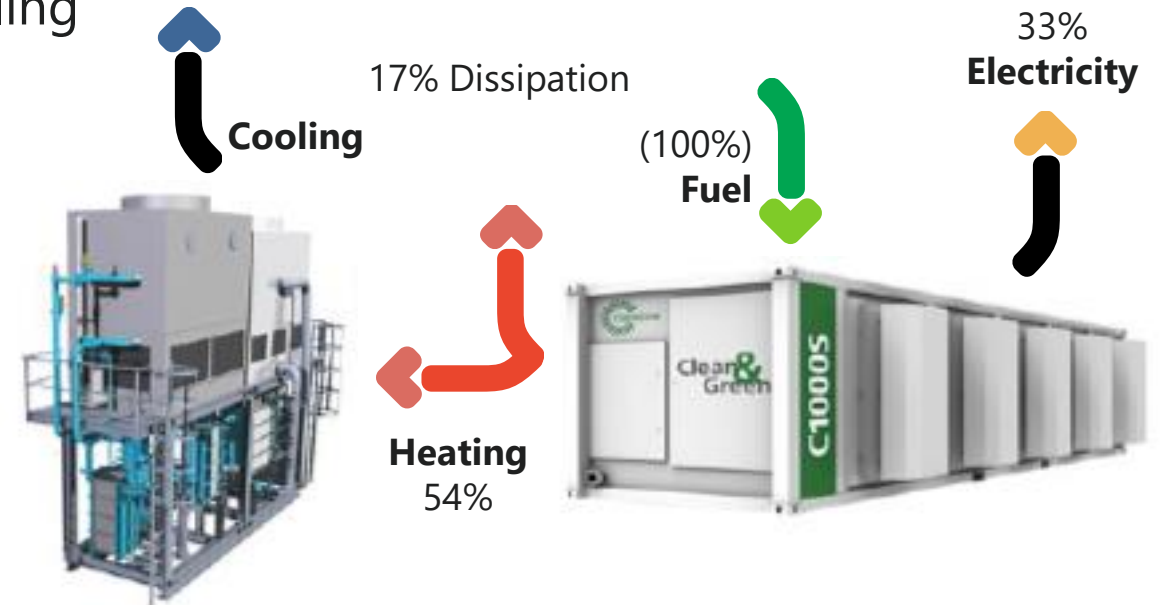
- What you need to know
 - Background
 - Technical details
 - How it has been improved

Part 2

The technology is here

Trigeneration

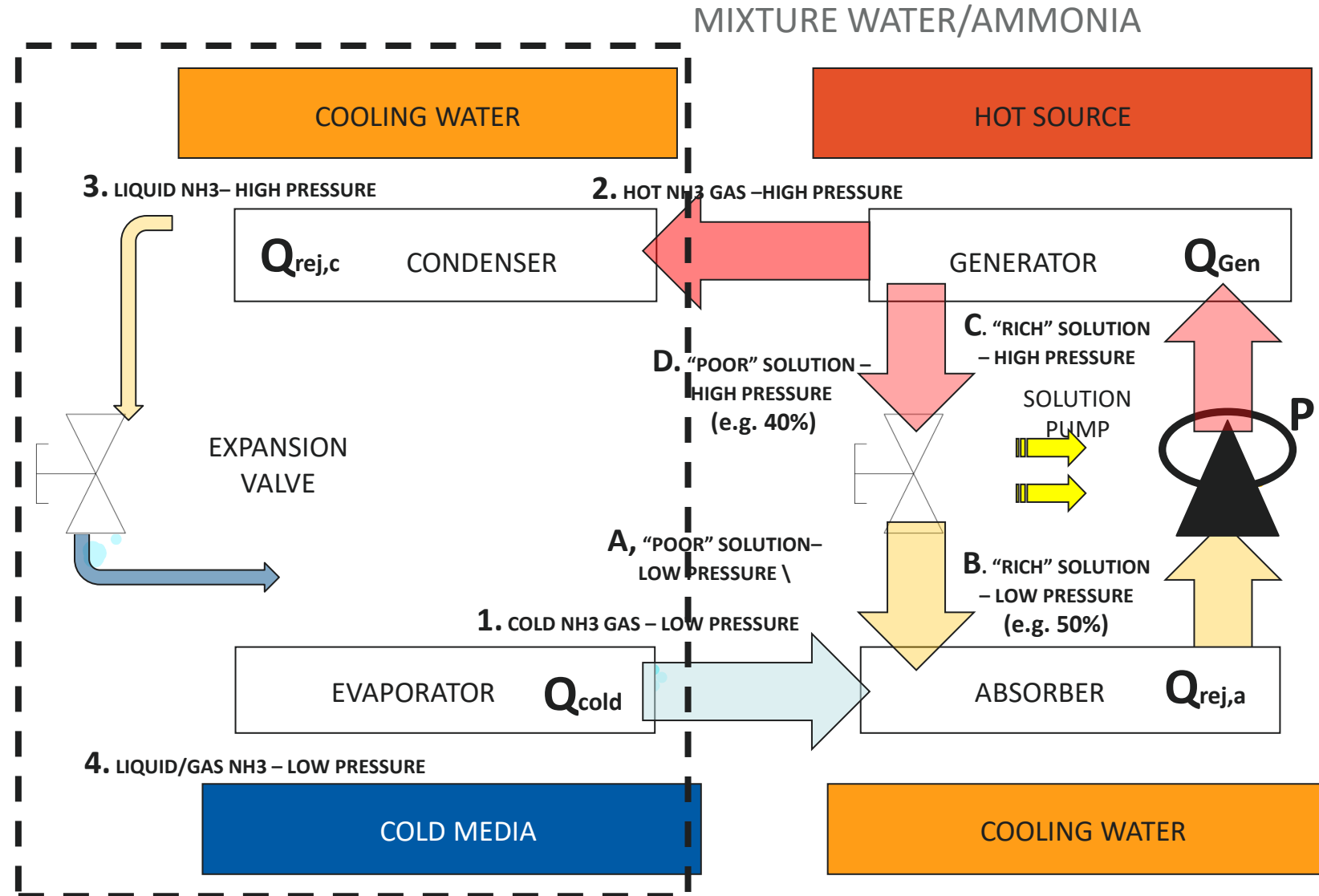
- Combined production of:
 - Electricity
 - Heat
 - Cooling



Part 2

The technology is here

Working Principle



Step 2

The technology is here

The Benefits of Triple A refrigeration

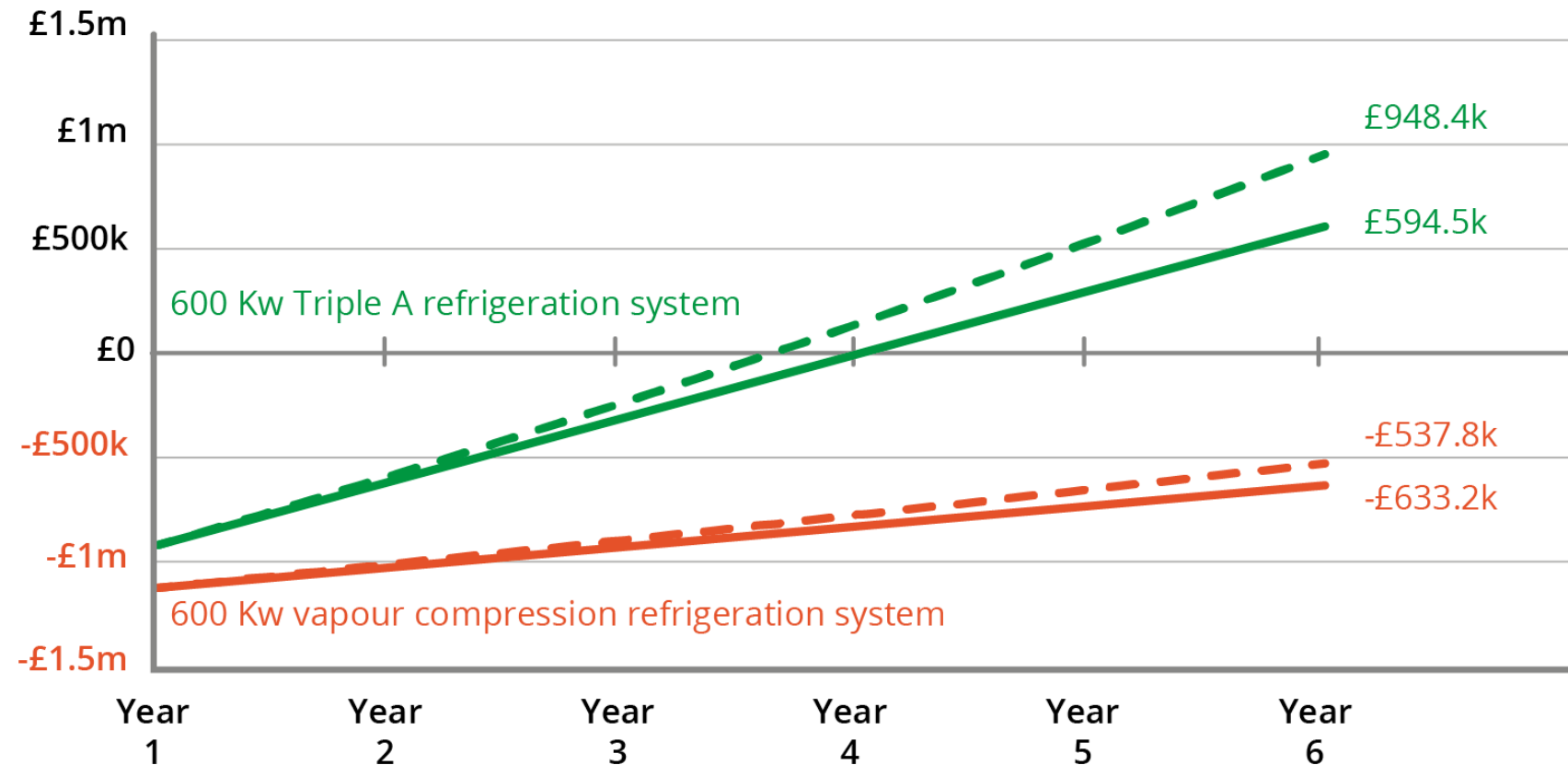
- No Fluorinated gases
- 90% reduction in electrical power consumption
- Lower carbon emissions

Step 2

The technology is here

The Benefits of Triple A refrigeration

6 Year Energy Saving and Payback (real-life example)



Part 3

Turning words into actions



Part 3

Turning words into actions

Meeting your Climate Change Agreement

- Assess where you can have most impact
- Use waste heat to cool
- Use energy efficient refrigerants
- Use climate friendly refrigerants

Part 3

Turning words into actions

Different paths to meet your Climate Change Agreement

- Modular container-sized 'plug and play' Triple A units available
- More ambitious bespoke systems: Unilever and Douwe Egberts
- Each path delivers significant carbon reductions and cost savings

Summary

Summary

- Urgent action is needed to reduce carbon emissions
- We have the technology for our industry to make significant carbon reductions
- Triple A refrigeration will help you meet your CCF Climate Change Agreement



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Styne Refrigeration is committed to Cold Chain Federation's 'Route to Zero' initiative.

For information, or to request a factsheet ask CCF or contact Clive Thornley on 01379 778082.