



kelvin
solutions



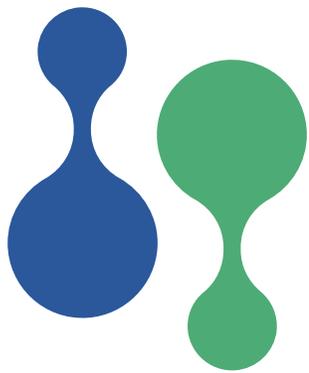
umicore

Warmtewende in de Industrie

Een draaiboek voor duurzame warmte
op een industriële site

Jan Casteels – Hartwin Leen

20 oktober 2022



Inhoudsopgave

1. De context
2. Technische vraagstukken en de ideale mix van technologie
3. De echte uitdaging: van goed idee naar implementatie
4. Antwoorden om duurzame warmte te versnellen



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Technische vraagstukken en de ideale mix van technologie

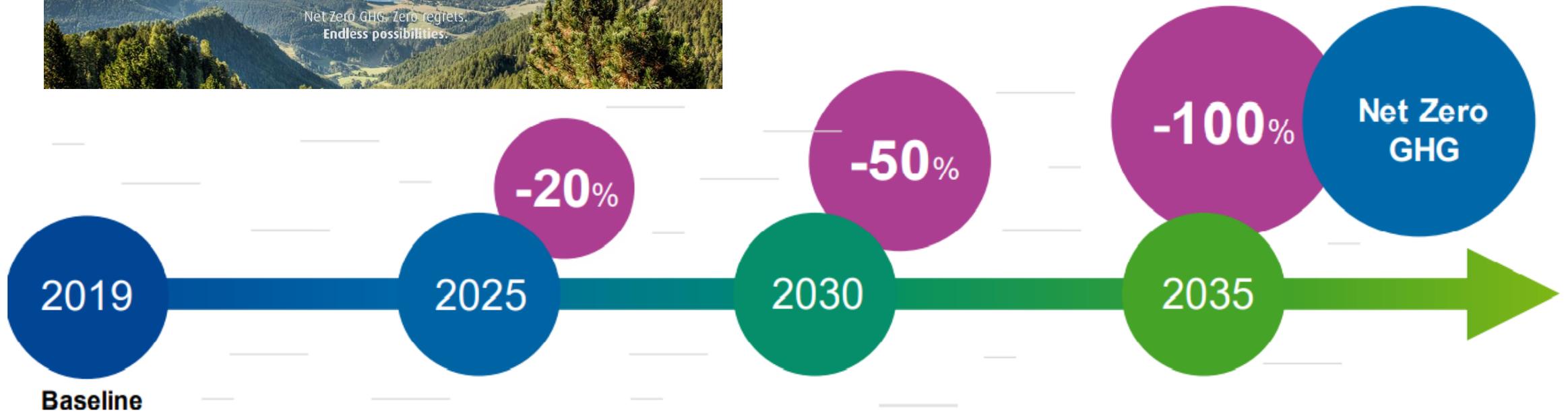
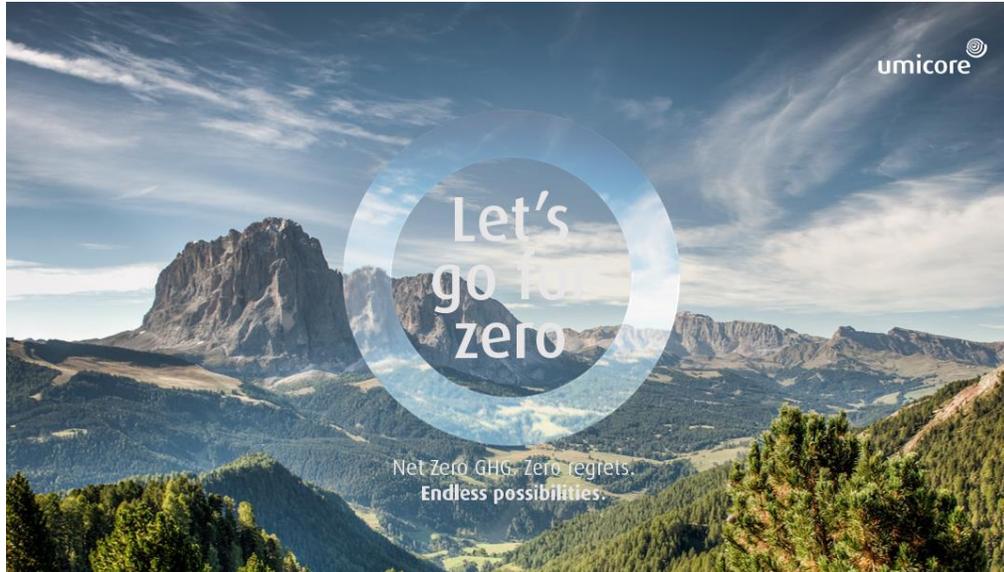
Effectieve procesvereisten (lager temperatuurniveau dan gedacht?)

Geen rocket science

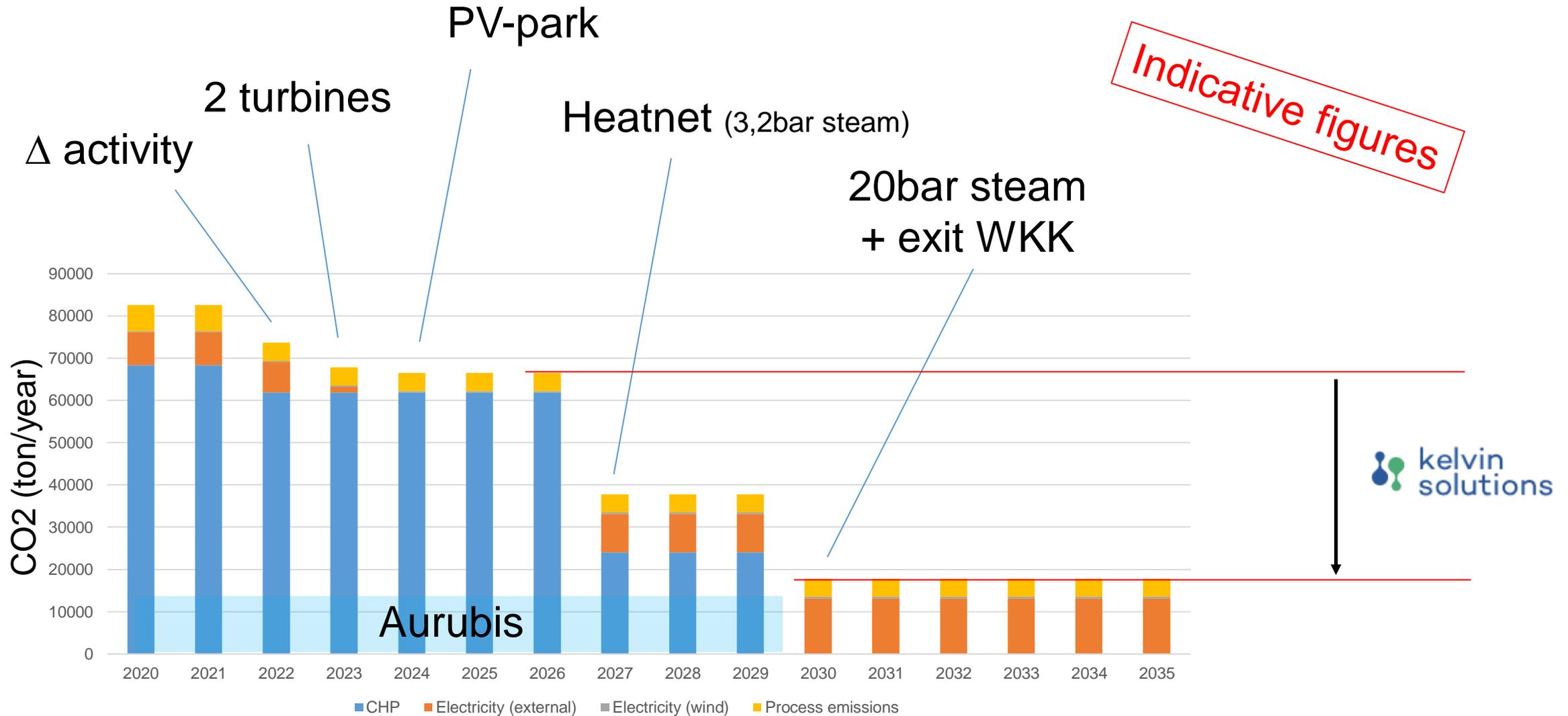
Van incrementele stappen naar paradigma shift?



Umicore corporate objective GHG-emissions



Umicore Olen decarbonisation roadmap (excl PPA)



The real challenge: making **strong cases** & **deciding**

SDG buy-in unrolls prudently within industry



Paradigm shift: from operational excellence to vast change

= from adding another user to your steam supply to rethinking your heat supply

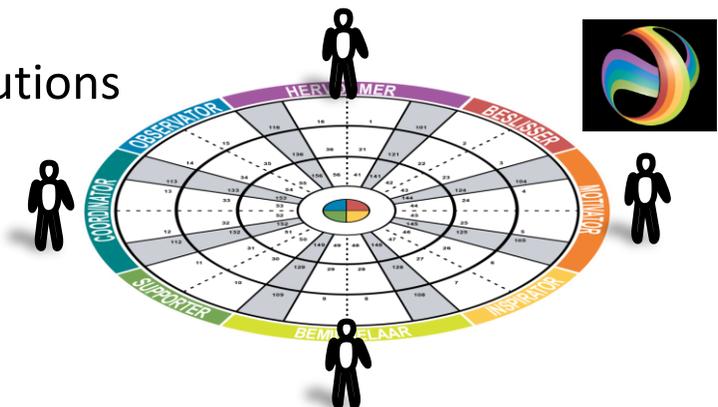
= from limited risk incremental steps to higher risk invasive change

Solution: seek and find reasons whereby decision makers recognize more risk in holding back than in approving evolutions

Some aspects to forge roadmaps



- Roll-out corporate ESG goals
- Relieve **competition** with ‘core business’ projects
 - **outsourcing** to external operators (CAPEX → OPEX)
 - keeping ESG investments **off balance** → IFRS16/IFRIC 12
- Avoid traditional procedures and habits that **hinder progress**, i.e. fixed price contracts & NDA’s
- **Involve emerging companies** unrelated to unsustainable legacy systems and characterized by short communication paths, mostly directly with CEO
- **Involve authorities early** in the process, understand their stake, and integrate their stake into your projects demonstrating contribution to societal development
- **Involve knowledgeable law firms**
- Include ‘political’ profiles besides technical to ‘shape’ ESG solutions









Kelvin Solutions

Oplossingen voor toekomstbestendige zorgeloze warmte en koude.
Van eerste idee tot operationele uitmuntendheid.



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