

BEERT BOOMSMA & NANDO KLEIN

BOTH NETHERLANDS

B2 ADV-ICE / SUPRO COOLING

*Case Study: Modern Approach to Sustainable Solutions for
Ice Making*



BEERT BOOMSMA 1970
ING. NANDO KLEIN GUNNEWIEK 1978

LET ME BE YOUR ADVISOR HOW TO
BUILD SUSTAINABLE ICE RINKS





CHALLENGES IN THE WORLD OF ICERINKS



Can they survive ??

Yes they can survive.

**Climate neutral energy in:
2050**

Every country has it's own transition.

Phasing out F-gases from 2030

WHAT'S THE PROBLEM

Ice??

Usually not, often it can be better, we will not discuss this now

Thickness of the ice....

Period of ice making....

Vision of ice rink owners??

They cannot longer continue to look through the same pair of glasses

The real problem now is, with the current energy costs
we still build the traditional ice rinks and that needs to change!

WHAT'S THE PROBLEM

The buildings??

The building determines the majority of your energy needs

The shape of the building

Don't let the architect decide alone, but do it together.

Think about the location of the building, for example
Share energy and create possibilities for storing heat,
cold and electricity.

Storing energy is the word



ALL THESE PROCESSES INFLUENCE OUR
ENERGY CONSUMPTION



**Have we strayed from
reality?**

We have the solution for the future of the ice rinks

HOW SHOULD WE PROCEED IN THE FUTURE

**The future of ice rinks starts in the
Year 1860**

Remember the name

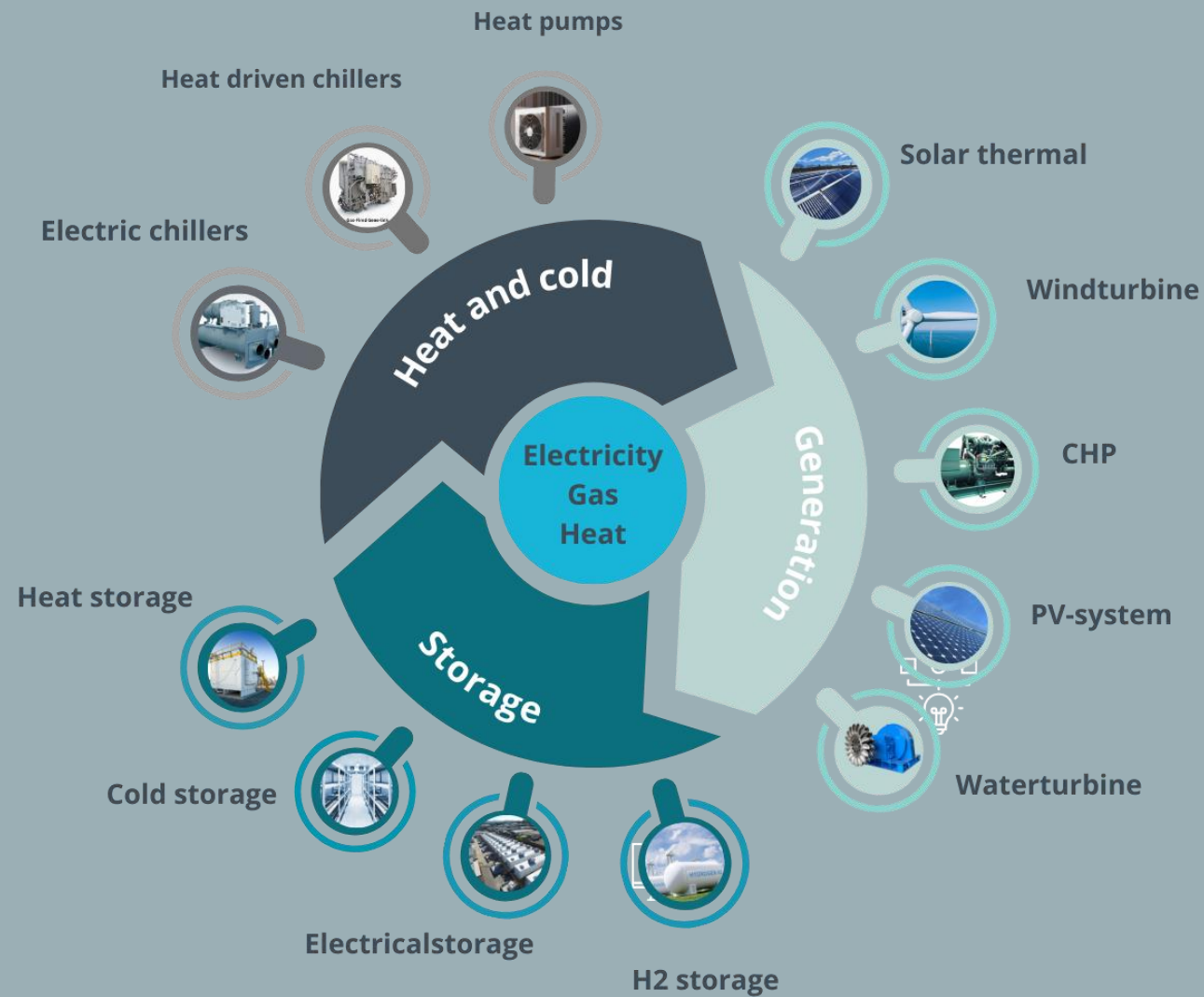
Ferdinand Carre



SUSTAINABLE TECHNOLOGIES



SUSTAINABLE TECHNOLOGIES



SPORTS HALL RIDDERKERK,
THE NETHERLANDS



LOUIS RUYS, ZWIJNDRECHT ,
THE NETHERLANDS





THANK YOU FOR YOUR ATTENTION



Beert Boomsma
Ing. Nando Klein Gunnewiek