

NESTE GENERASJON  
FORNYBARENERGI



# WINNS MISSION IS TO SAVE EARTH FROM ENVIROMENTAL HOSTILE REFRIGERANTS'

## **Business Idea:**

Develop, manufacture and provide, unique energy efficient heating and cooling products and services, using natural coolant

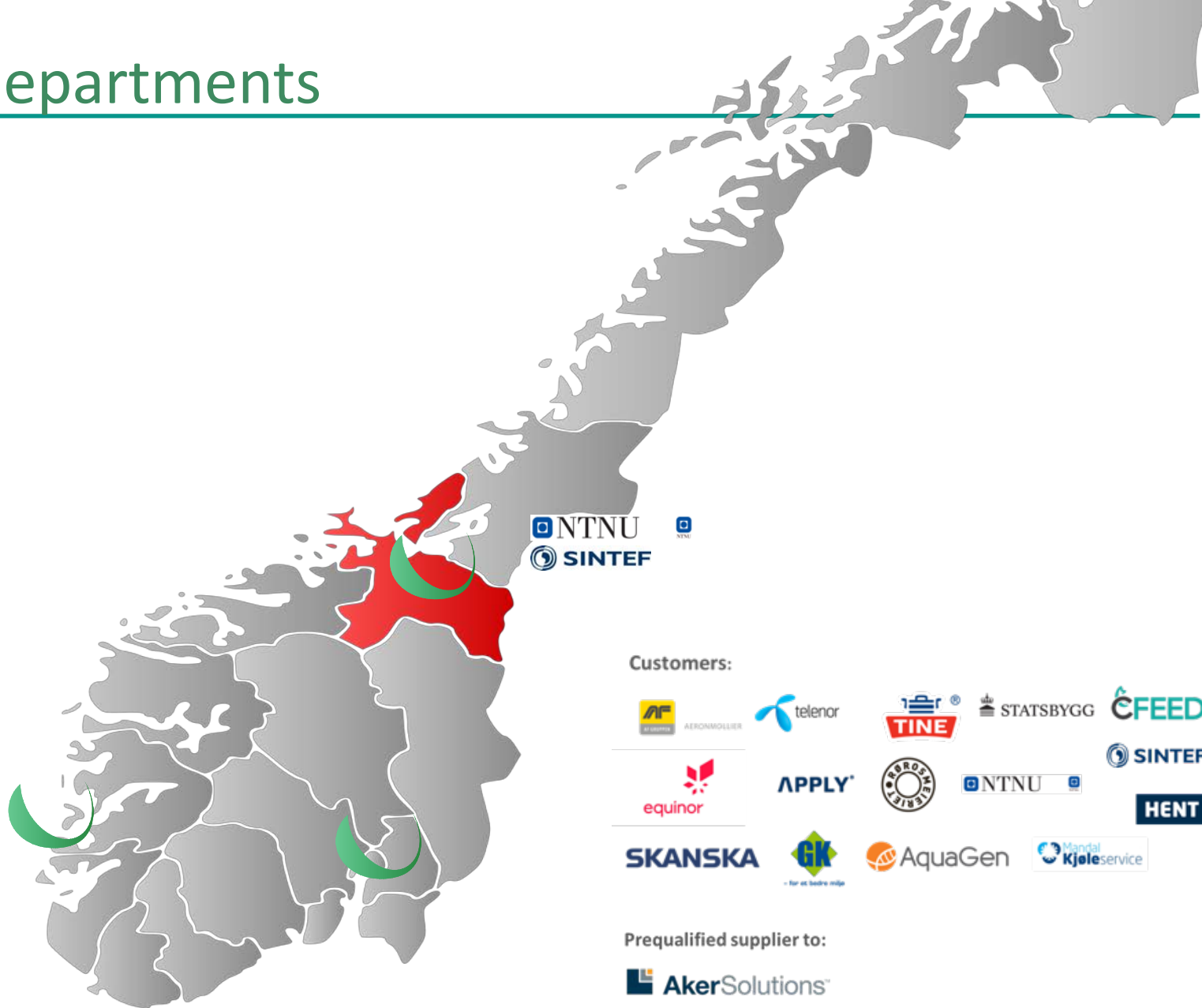


## **Vision:**

Become a global contributor to global climate goals



# Winns departments



NTNU  
SINTEF

## Customers:



## Prequalified supplier to:

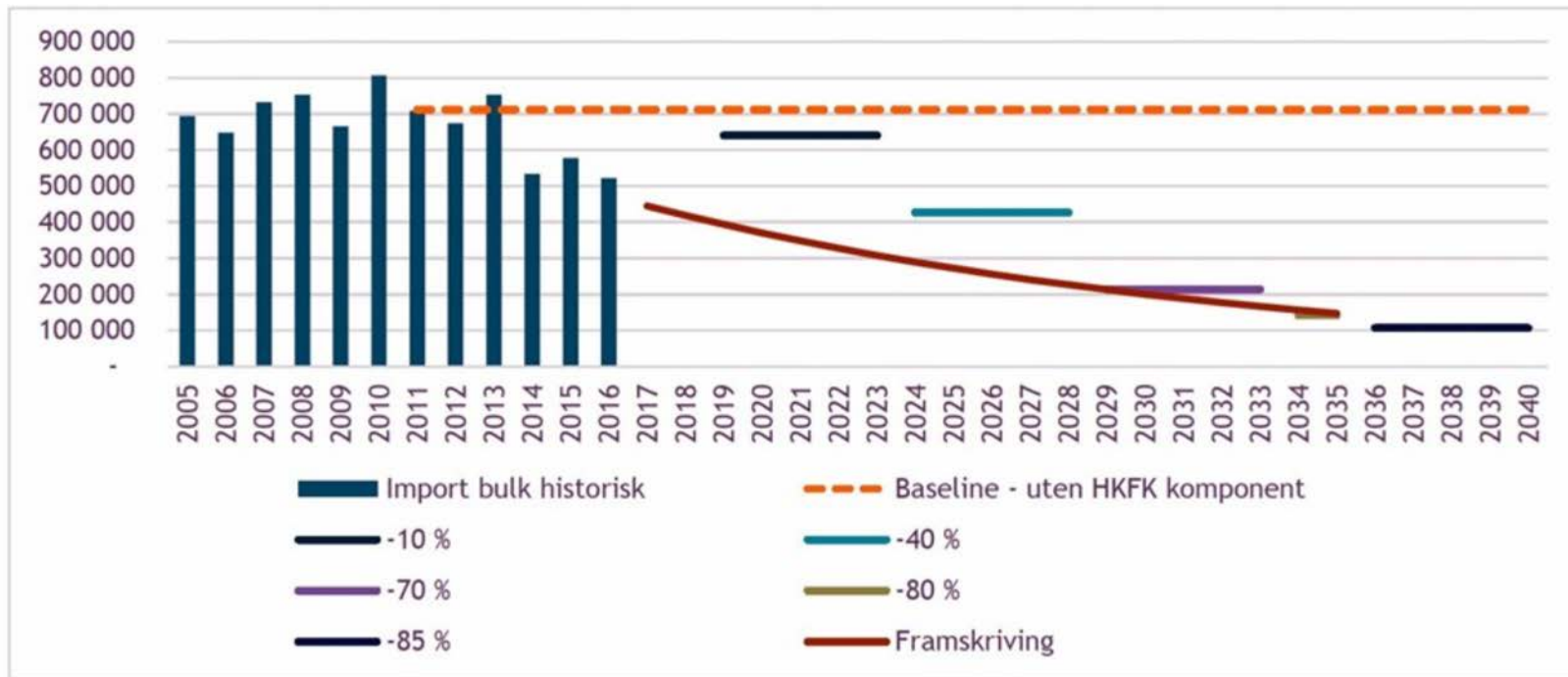
AkerSolutions™

AKER KVÆRNER™

WINNS MISSION IS TO SAVE THE EARTH, FROM ENVIROMENTALLY HOSTILE REFRIGERANT







Source: <https://www.vke.no/artikler/2018/norsk-nedfasingsplan-for-f-gass-smart-klar/>

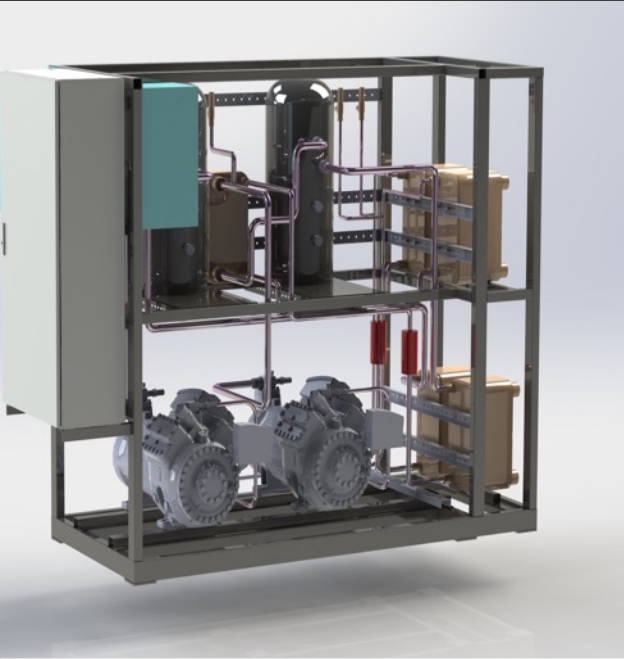
California is in process of establishing HFC phase-down

HFC phase-down starting in 2015 ending with 79% cut down in 2030



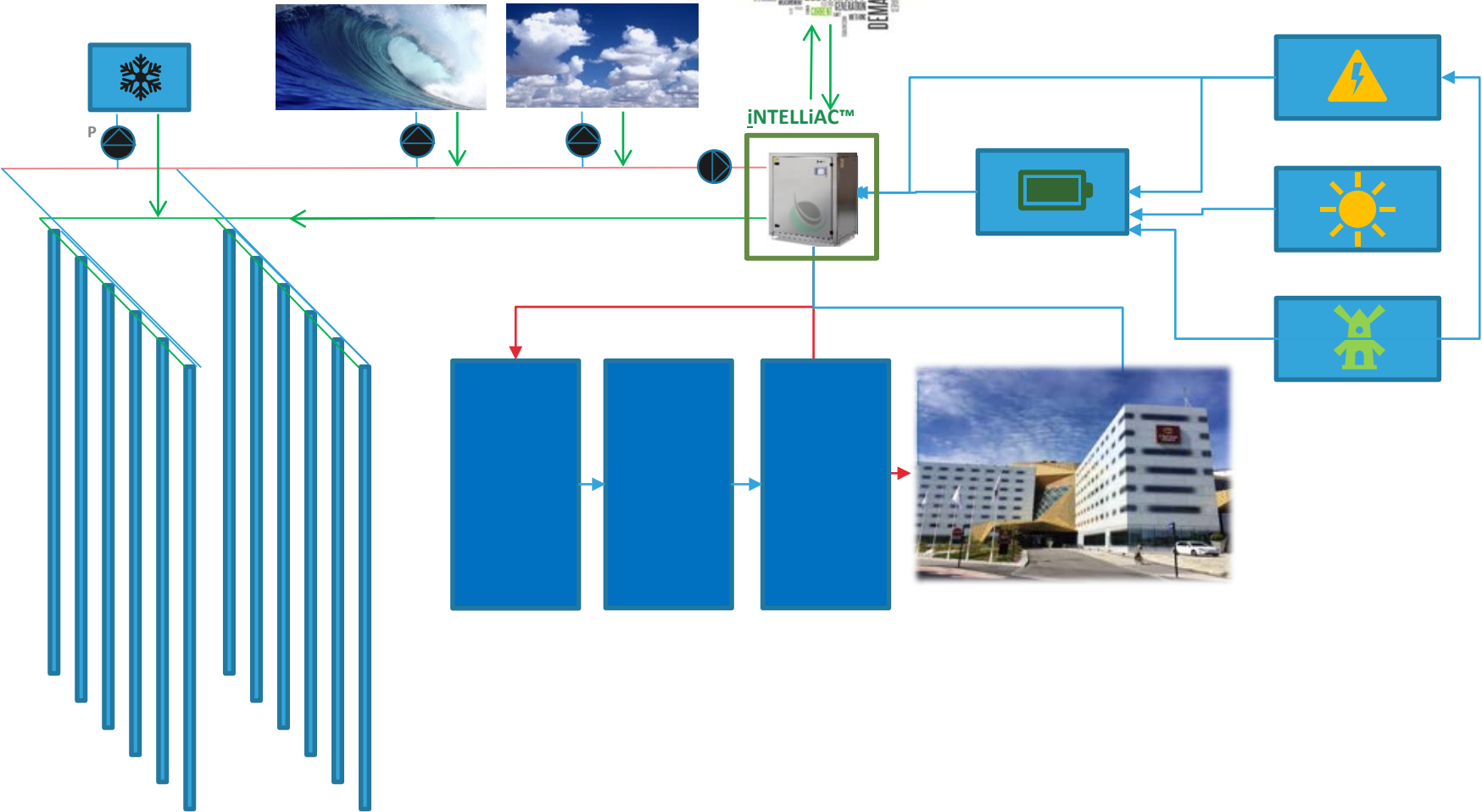
Multilateral Fund supports low GWP projects

Extended new framework law promoting low GWP refrigerants



68 – 77 % Energibesparelse  
75 °C varmtvannstemperatur  
99 % reduksjon i CO<sub>2</sub> emisjon







## WINNS TO DELIVER DX UNITS FOR - JOHAN CASTBERG

World first CO2 DX-unit

Order: Dx units for computer room cooling

Developed and manufactured in Trondheim by Winns AS



DX indoor units contains:

- ✓ All necessary automation
- ✓ HMI
- ✓ Compressor
- ✓ Receiver
- ✓ Oil separator
- ✓ Safety valve
- ✓ Pressostats
- ✓ Inverter (VSD)
- ✓ Local control
- ✓ Under floor noise mufflers as applicable
- ✓ Gas cooler fans control



Option

- ✓ CO2 Detector
- ✓ CO2 Shut off valve
- ✓ Co2 Alarm visual and audible

99 % reduksjon i CO<sub>2</sub> emisjon





## VÅRE MARKEDER

- HOTEL- OG NÆRINGSBYGG
  - PROSESSINDUSTRI
  - NÆRINGSMIDDELINDUSTRI
  - AQUAKULTUR OG FISKERINÆRING
  - OFFSHORE
-

# TEAM – 230 YEARS OF COOLING EXPERIENCE



»  
MORTEN HEGDAL  
Daglig leder / CEO  
Mobile: + 47 976 60 719  
Mail: [morten@winns.no](mailto:morten@winns.no)



«  
JARL SANDØ  
CTO – Produksjon  
Mobile: + 47 940 56 824  
Mail: [jarl@winns.no](mailto:jarl@winns.no)



»  
ARNE BØRTVEIT  
CTO – Offshore  
Mobile: + 915 51 301  
Mail: [arne@winns.no](mailto:arne@winns.no)



»  
KENNETH SJØLSTAD  
CMO – Fagsjef / Salgsingeniør  
/ Kuldeingeniør  
Mobile: + 47 905 90 311  
Mail: [kenneth@winns.no](mailto:kenneth@winns.no)



«  
BJØRN ARSTAD  
Leder: forskning og utvikling /  
Prosjektleder  
Mobile: + 93497569  
Mail: [bjorn@winns.no](mailto:bjorn@winns.no)



»  
JON HENNING FROST HAUGE  
Avdelingsleder Winns Øst /  
Kuldeingeniør  
Mobile: + 47 982 62 570  
Mail: [jon@winns.no](mailto:jon@winns.no)

## BOARD OF DIRECTORS

