

Duurzaamheid in de liftenbranche

9 MAART 2022 WILLEM PUNT



Please mute your
microphone to avoid
unnecessary noises.

Wat is duurzaamheid?

Duurzame ontwikkeling is een ontwikkeling die tegemoetkomt aan de levensbehoeften van de huidige generatie, zonder die van de toekomstige generaties tekort te doen. Het gaat hierbij om economische, sociale en leefomgevingsbehoeften. Voorbeelden zijn een schoon milieu, biodiversiteit in de natuur, een hoogopgeleide en gezonde bevolking, goed werkende sociale netwerken en maatschappelijk vertrouwen.

Bron CBS (<https://www.cbs.nl/nl-nl/faq/specifiek/wat-is-duurzaamheid->)

Duurzaam succes met onze klanten

VERSTEDELIJKING

MEGATRENDS
DUURZAAMHEID

TECHNOLOGIE

Dedicated to People Flow™ **KONE**

STRATEGISCHE DOELEN

Een fantastische werkplek
Meest loyale klanten
Sneller groeien dan de markt
De beste financiële ontwikkeling
Leider in duurzaamheid

MANIEREN OM TE WINNEN

Ons succes wordt bepaald door:

Empowered people

Vernieuwend
in Marketing
en Sales

Digitale
+ fysieke
bedrijfsvoering

Lean
KONE

CULTUUR

VEILIGHEID
KWALITEIT
DUURZAAMHEID

CARE

COLLABORATION



CUSTOMER



COURAGE

WAAR WILLEN WE WINNEN

We zijn toonaangevend in:

Onze producten
en diensten

Nieuwe waardevolle
oplossingen voor onze
klanten

Slimme en duurzame
steden

Service business
in China

ONZE MISSIE IS OM
DE 'FLOW' VAN HET STADS-
LEVEN TE VERBETEREN

WE CREËREN DE
BESTE "PEOPLE FLOW
EXPERIENCE"

markt

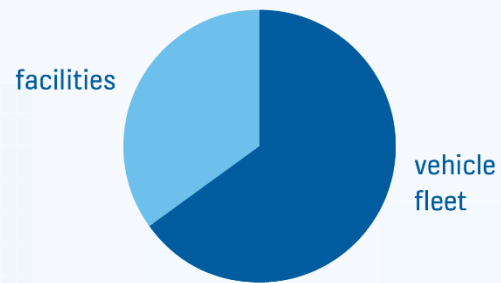
KONE's Climate Pledge

KONE's climate pledge: science-based targets and carbon neutral operations by 2030



OPERATIONS

Emissions from operations (Scope 1&2):
<0,2 M tCO₂e



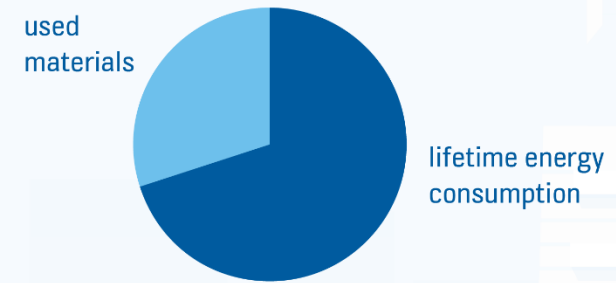
100%
renewable
electricity

-50%
in absolute
emissions


Carbon neutral
operations

PRODUCTS & VALUE CHAIN

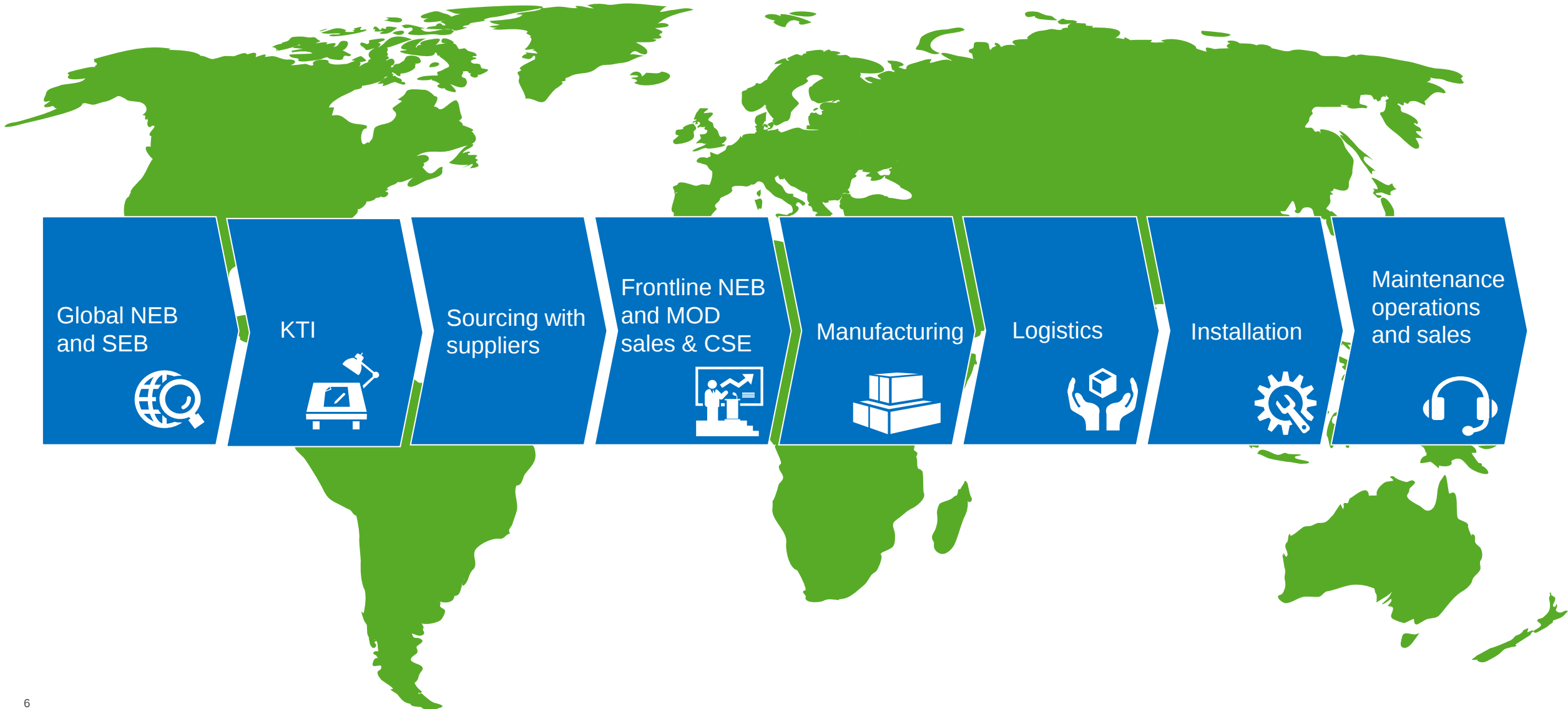
Emissions from products (Scope 3):
>12 M tCO₂e



-40%
in emissions per
ordered product

2018 → 2030

Every unit and function has a role in our climate pledge



Onderschrijven van Klimaat akkoord Parijs

Sustainable Development Goals (SDG's)

Bevorderen van de Duurzame Ontwikkelingsdoelen die op onze activiteiten van toepassing zijn en wij zetten ons in voor het klimaatinitiatief "Paris Pledge for Action".



Externe (h)erkenningen

Our recognitions and certifications show leadership



Ranked in the Platinum **top 1%** of all companies rated by EcoVadis in respect to **environment, labor and human rights, ethics, and sustainable procurement.**

2020, 2021



Top leadership score A or A- in Climate and **A in Supplier Engagement**, which describes our long-term commitment to environmental work and sustainability

2013–2021

2018–2021



Widest product range with **A-class energy performance** according to ISO 25745.

Our solutions have green building **product certifications.**



First in industry to get **ambitious climate targets approved by SBTi**, in September 2020.

Product declarations & ENERCAL

Product declarations



Environmental Product Declarations (EPD)

EPDs describe the lifecycle environmental impacts of KONE products:

- Carbon footprint
- Energy consumption
- Material content
- Recyclability (up to 90%)

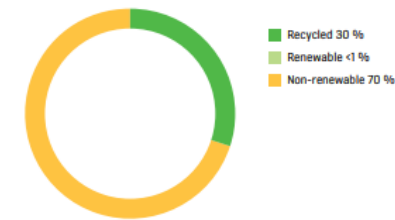
EPDs are:

- Verified by independent third party
- Contributes to customers' green building certifications
- Compliant with EN15804 standard required by LEED & BREEAM (maximum points)
- Available for 9 KONE elevators and 2 KONE escalators in Europe
- prepared in accordance with EN 15804:2012+A1:2013 and ISO 14025 standards

SUMMARY

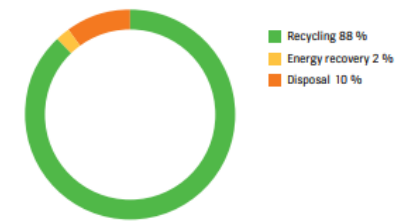
MATERIALS AND CIRCULARITY

Origin of materials



Materials	kg
Steel - all types	1953
Concrete	767
Electronics	55
Plastics	34
Aluminium	16
Copper	13
Glass	11
Others	21

Materials utilization potential after elevator usage



* The figures are rounded up

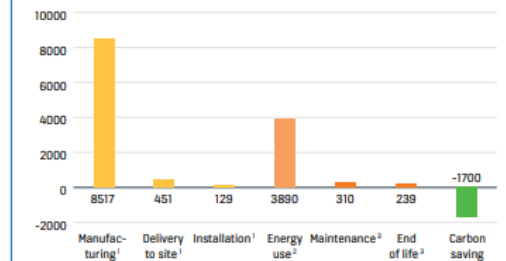
CARBON EMISSION



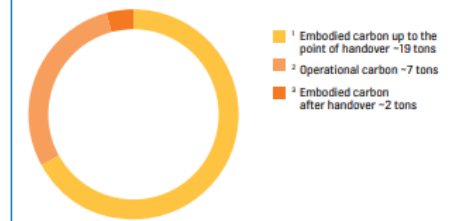
Carbon emission - GHG emission throughout lifecycle of product

Carbon saving - Recycling materials such as steel at the end of life avoids production of virgin materials ('negative emission').

Carbon footprint distribution (kg CO2 eq.)



Share of carbon emission over lifetime



Find all KONE EPDs at kone.com

Product declarations



Health Product Declarations (HPD)

HPDs disclose the material contents and possible human health hazards associated with the materials

- Data collected from supply chain
- Chemical inventory of the product (HPD section 2)

HPDs are:

- Self-declared document
- Contributes to customers' green building certifications
- Compliant with requirements of LEED



Find all KONE HPDs at kone.com

MiniSpace™ DX
by KONE Corporation

Health Product Declaration v2.2
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 21671
CLASSIFICATION: 14 20 00 Elevators
PRODUCT DESCRIPTION: Elevators also called lifts are permanently serving buildings and constructions designed for the vertical transportation of persons, goods, and materials. Elevator systems consist of subsystems and components. The HPD includes the content inventory above the threshold limit specified for the whole product as delivered to the installation site. The declaration covers the standard KONE MiniSpace™ DX elevator range for the European market, parts of which are manufactured at KONE's manufacturing units or purchased from KONE's suppliers.

Section 1: Summary Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format ☐ Nested Materials Method ☒ Basic Method	Threshold level ☐ 100 ppm ☒ 1,000 ppm ☐ Per GHS SDS ☐ Other	Residuals/Impurities ☐ Considered ☐ Partially Considered ☒ Not Considered	All Substances Above the Threshold Indicated Are: Characterized ☒ Yes Ex/SC ☐ Yes ☐ No % weight and role provided for all substances except SC substances characterized according to SC guidance.
Threshold Disclosed Per ☐ Material ☒ Product	Supplemental provided for Residuals/Impurities? ☒ Yes ☐ No	Screened ☒ Yes Ex/SC ☐ Yes ☐ No All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.	Identified ☒ Yes Ex/SC ☐ Yes ☐ No All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

MINISPACE™ DX | STEEL | NoGS | STAINLESS STEEL | NoGS | IRON OXIDE | LT-PI | POLYVINYL CHLORIDE (PVC) | LT-PI | RES ALUMINUM | NoGS | PORTLAND CEMENT | LT-PI | END | CAN COPPER | LT-PI | MUL WATER | NoGS | BIS(2-ETHYLHEXYL) TEREPHTHALATE | NoGS | DISODIUM HYTHALATE (DIDPH) PRIMARY CASRN IS 20701-40-0 | NoGS | DEV | END | VUL | REP | CAN CALCIUM CARBONATE | NoGS | CHALK | NoGS | IC-PLYWOOD | Not Screened | DOLOMITE | NoGS | SILICA GEL | LT-UNK | MINERAL WOOL WITH FIBER DIAMETER > 6 µm | LT-UNK | ZINC | LT-PI | NOU | PHY | END | MUL |

Number of Greenscreen BM-4/BM3 contents ... 2
Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT
VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.
VOC emissions: CDPH Standard Method- Not Tested

CONSISTENCY WITH OTHER PROGRAMS
Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?
☒ Yes

PREPARED: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2020-08-20
PUBLISHED DATE: 2020-09-10
EXPIRY DATE: 2023-08-20

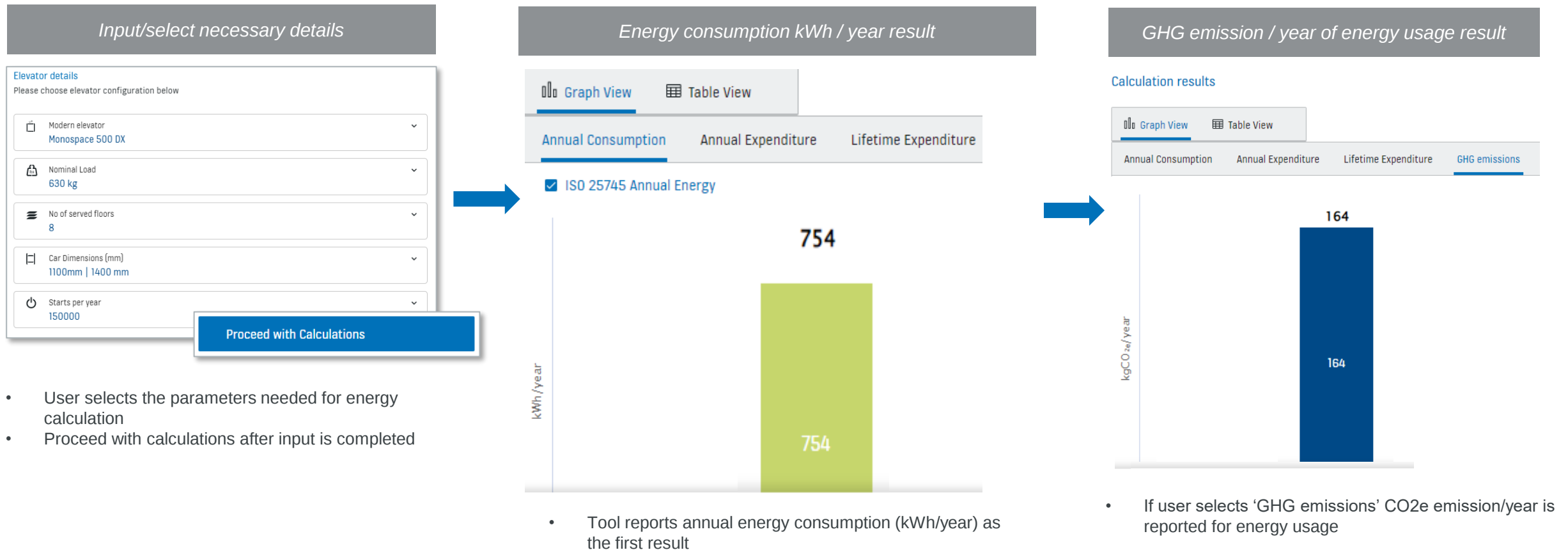
iniSpace DX
pdrepository.hpd-collaborative.org

HPD v2.2 created via HPDC Builder Page 1 of 10

KONE Enercal (enercal.kone.com)

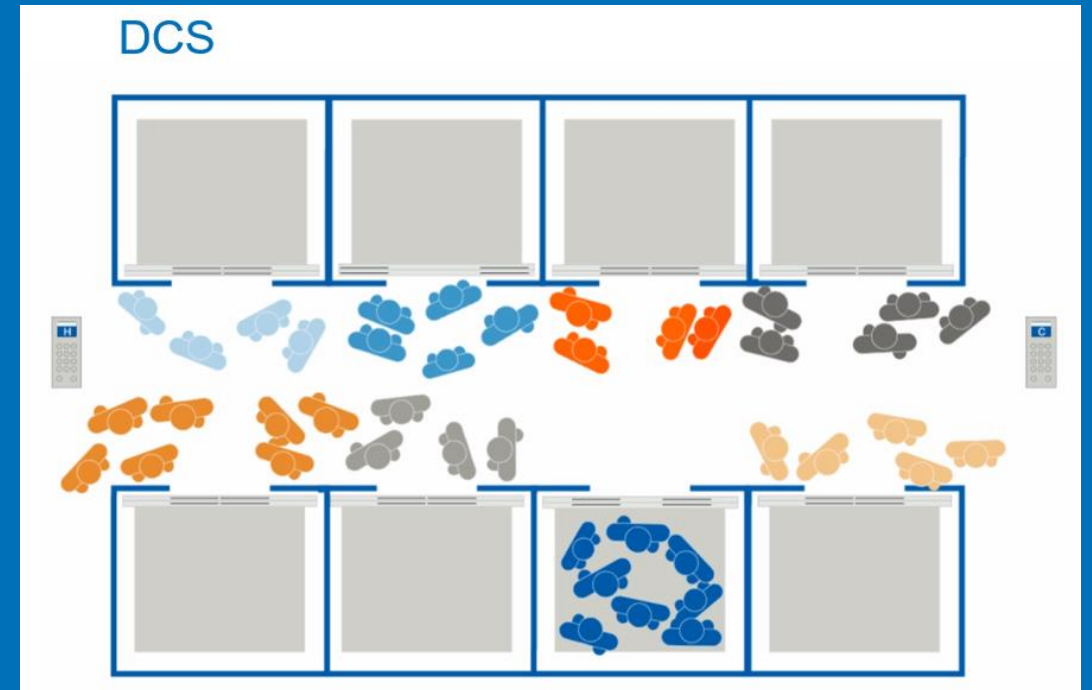


- A user-friendly Sales tool for the calculation of the energy and eco efficiency of Elevators and Escalators
- Calculations with ISO methodology available for new construction
- Shows Green Building contribution and provides reports that can be shared with our customers



Producten & oplossingen

- Regenerate
- KONE MonoSpace DX serie
- DCS



KONE 24/7 connected services

24/7 connected services (predictive maintenance)



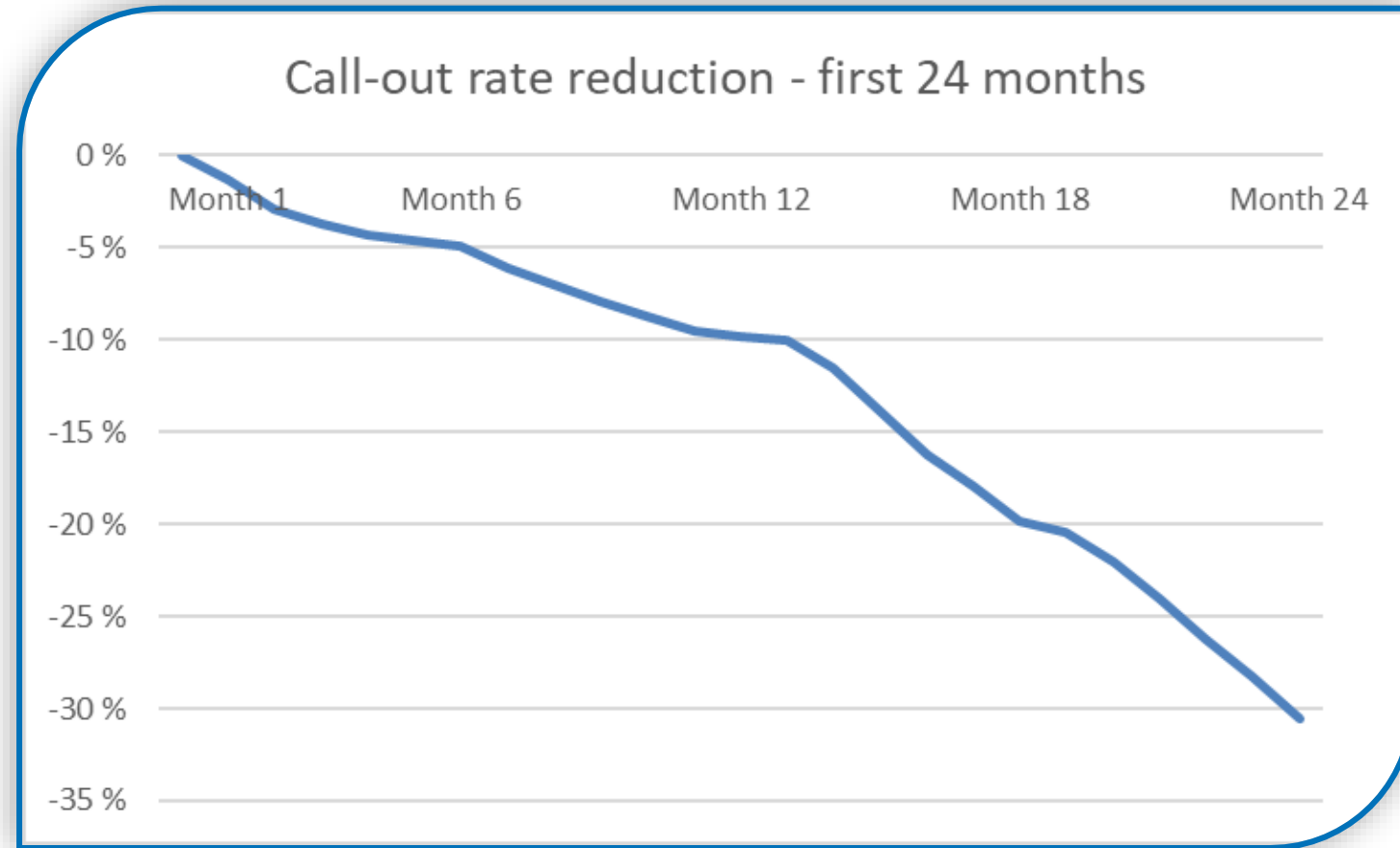
OOK BETER VOOR HET MILIEU

Voordelen 24/7 Predictive maintenance

- Route optimalisatie
- Minder stilstand
- Uitvoering wanneer Installatie niet nodig is voor bedrijfsvoering
- Minder storingen



KONE 24/7 Connected Services decreases disruptions visible to equipment users



— Preventive KONE Care maintenance complimented with predictive KONE 24/7 Connected Services

Customer-reported issues reduced by **30%**

On average, after 24 months in service



Improved user experience, reliability, safety and availability

KONE Nederland

KONE EN DUURZAAMHEID

2015

Verlichting op kantoor vervangen voor LED



2017-2018

Inkoop groene stroom, aanleg binnentuin en 1e elektrische auto's in ons wagenpark



2020

Gescheiden afvalinzameling op werkplek, KONE-bootcamp (sport) voor medewerkers, Hybride Toyota's voor onze monteurs



2021

Installatie 600 zonnepanelen, aanleg bijenhabitat, eerste elektrische auto's voor monteurs



2022

Uitbreiden bijenhabitat, vervangen plastic bekiers voor stenen koffiemokken, inkoop CO2-neutraal papier en leasefietsregeling voor alle medewerkers



2025

Ons hele wagenpark elektrisch



KONE hergebruik van materialen

Praktijkvoorbeeld

Circularity project Rotterdam

Technical data of building and lifts

- Start of construction : 1988
- Completed : 1991
- Use : Office
- Height : 95 meters
- Floors : 21
- Lifts (Mitsubishi) : 6 group in the main lobby of which one freight lift to serve all floors.
: 1 lift from the parking garage to the main floor
: 1 platform lift



Circularity project Rotterdam

Tender phase

- Landing doors in good condition
- Traffic calculations
- NTA 4614-4 guideline used
- people flow analysis



Circularity project Rotterdam



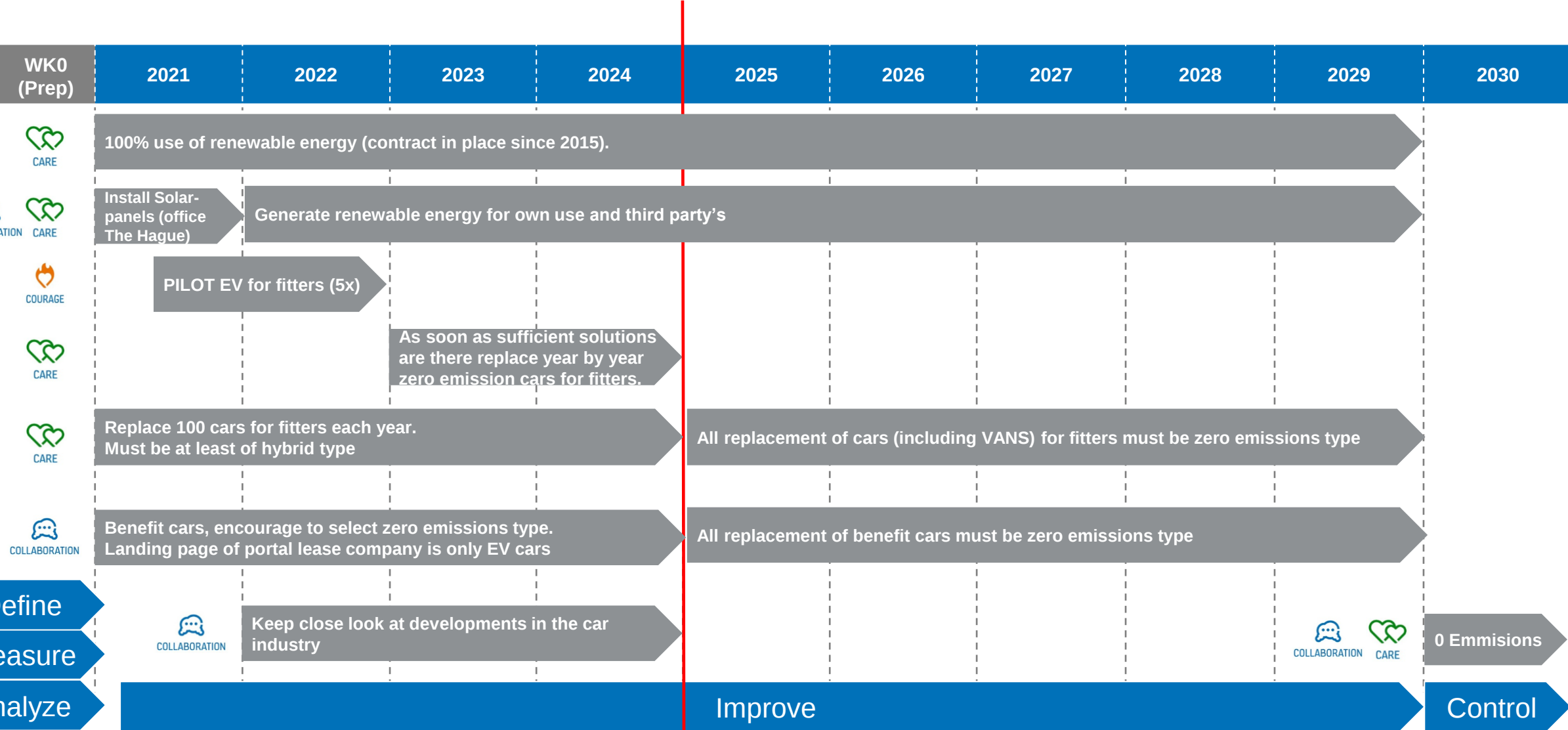
We reused;

- All landing doors
- All car guiderails
- All counterweight guiderails



Verduurzaming wagenpark

Roadmap to zero emissions for buildings and car fleet



Verduurzaming wagenpark

EEN BETER MILIEU BEGINT BIJ JEZELF



- In principe alleen elektrische auto's
- Indien geen andere mogelijkheid maximum uitstoot verbrandingsmotor 120 gr./km
- Monteurs kunnen Hybride of Elektrisch rijden
- Route optimalisatie door 24/7 connected services



Hernieuwbare energie

Hernieuwbare energie

- Kopen sinds 2015 gecertificeerd groene energie in
- Momenteel bezig om 600 zonnepanelen te monteren
 - Voorzien in eigen behoefte
 - Levering ook aan derden zodat er geen centrales hoeven te draaien
 - Opvangen extra belasting elektriciteitsnet door toename elektrische auto's
- Installatie van 20 extra laadpunten



Biodiversiteit

Biodiversiteit

EEN BETER MILIEU BEGINT BIJ JEZELF



- Aanleg binnentuin
- Installatie van bijenhabitat (uitbreiding in 2022)
- Installatie van hek van gevlochten wilgentakken en extra planten



Thuiswerkplekken

Thuiswerkplekken

EEN BETER MILIEU BEGINT BIJ JEZELF



- De thuiswerkplekken zijn circulair (Triboo)



Diverse initiatieven en certificaten

Leasefietsen voor alle medewerkers



PSO certificaat trede 3 (Prestatieladder Socialer Ondernemen)



MVO (KONE Doet)

ISO 14001



CO2 prestatieladder trede 5



Actieve deelname Nederland CO2 Neutraal



Lid van DGBC





Dedicated to People Flow™

