

Denk vooruit.

Doe

groendus



Ondernemen en verduurzamen in tijden van netcongestie

Inspiratiesessie Arvato Heijen

Donderdag 26 juni 2025

arvato

Welcome to Arvato – Energy Management



arvato

Contactdetails



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OPERATIONS EXCELLENCE MANAGER

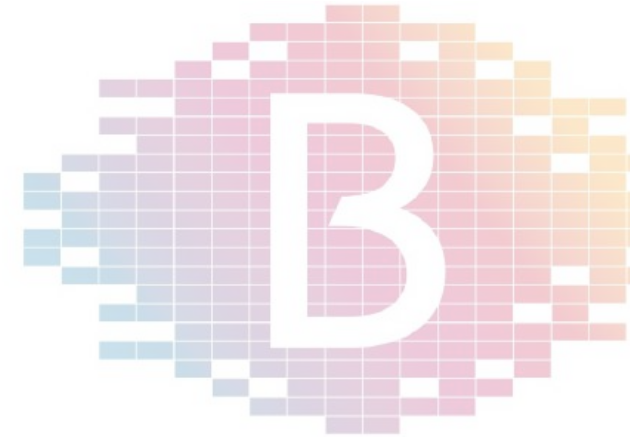
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The Bertelsmann group

First-class media content, education and service offerings with international focus



BERTELSMANN



KEY FIGURES 2023



€20.2 bn
group revenues



€3.1 bn
operating EBITDA



> 80,000
employees



> 50
countries

Arvato at a glance

We have aligned our organization to the needs of our internationally operating clients to offer them the greatest value

OUR INDUSTRIES:



Lifestyle Fashion & Sports



Beauty Care & New Business



Large Scale Fashion & Marketplaces

Consumer Products



Tech



Healthcare



Publisher

KEY FIGURES 2023

€ 2.5bn

revenue

> 17,000

employees

> 100

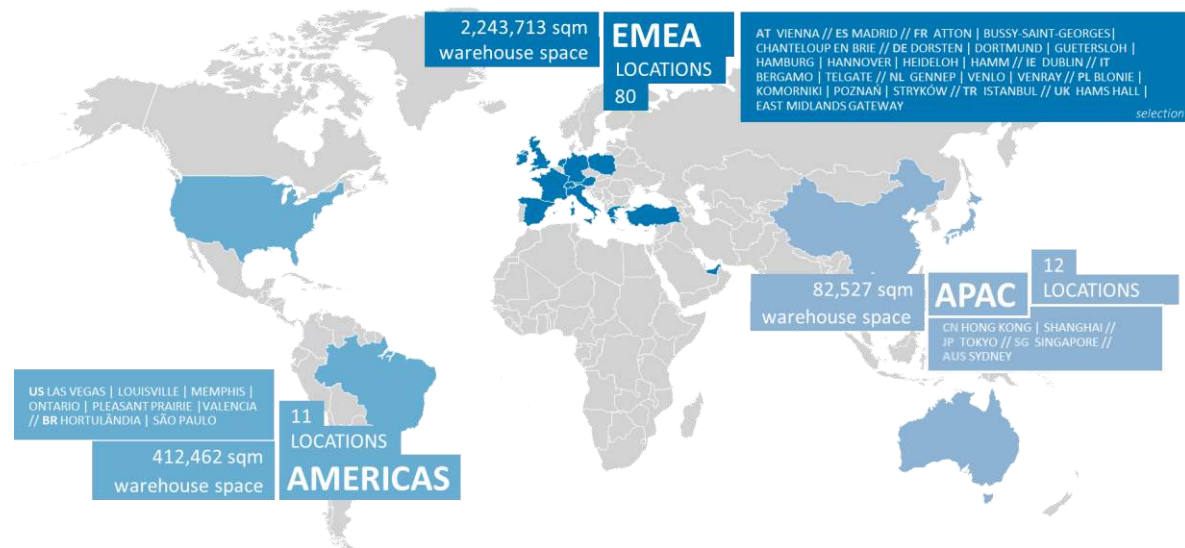
sites globally

> 2.7mn sqm

warehouse space

Our global footprint

Our international warehouse space has grown by 96% since 2016, up to 2.7 m. sqm in 2023

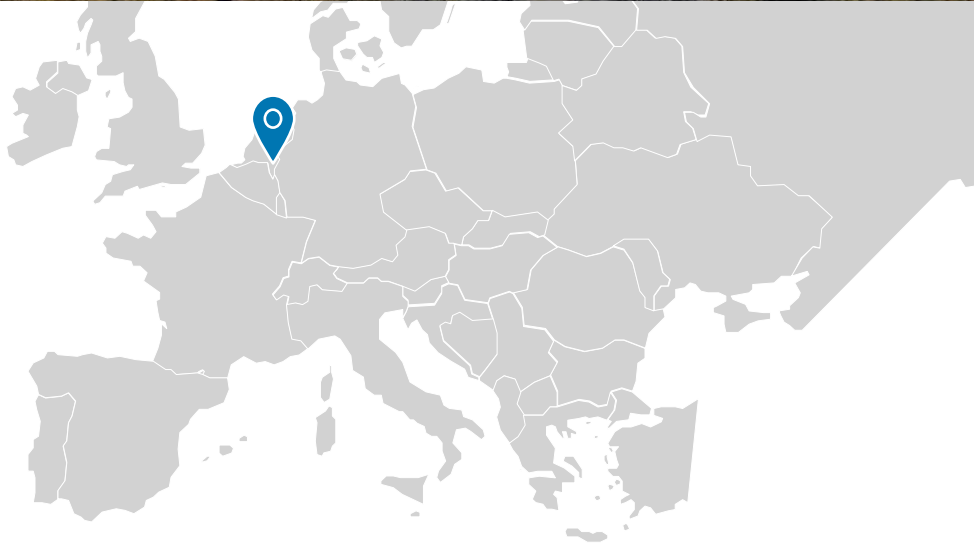


Locations in the Netherlands



Arvato NL

Gennep



EMPLOYEES*

2,000



SPACE**

228,000 sqm

- Construction year: 2016
- Arvato property
- Certified: TAPA-A FSR, AEO, regulated agent, ISO 9001, ISO 27001, ISO 13485
- Transport management European wide
- 40,000 solar panels

* Employees including temps

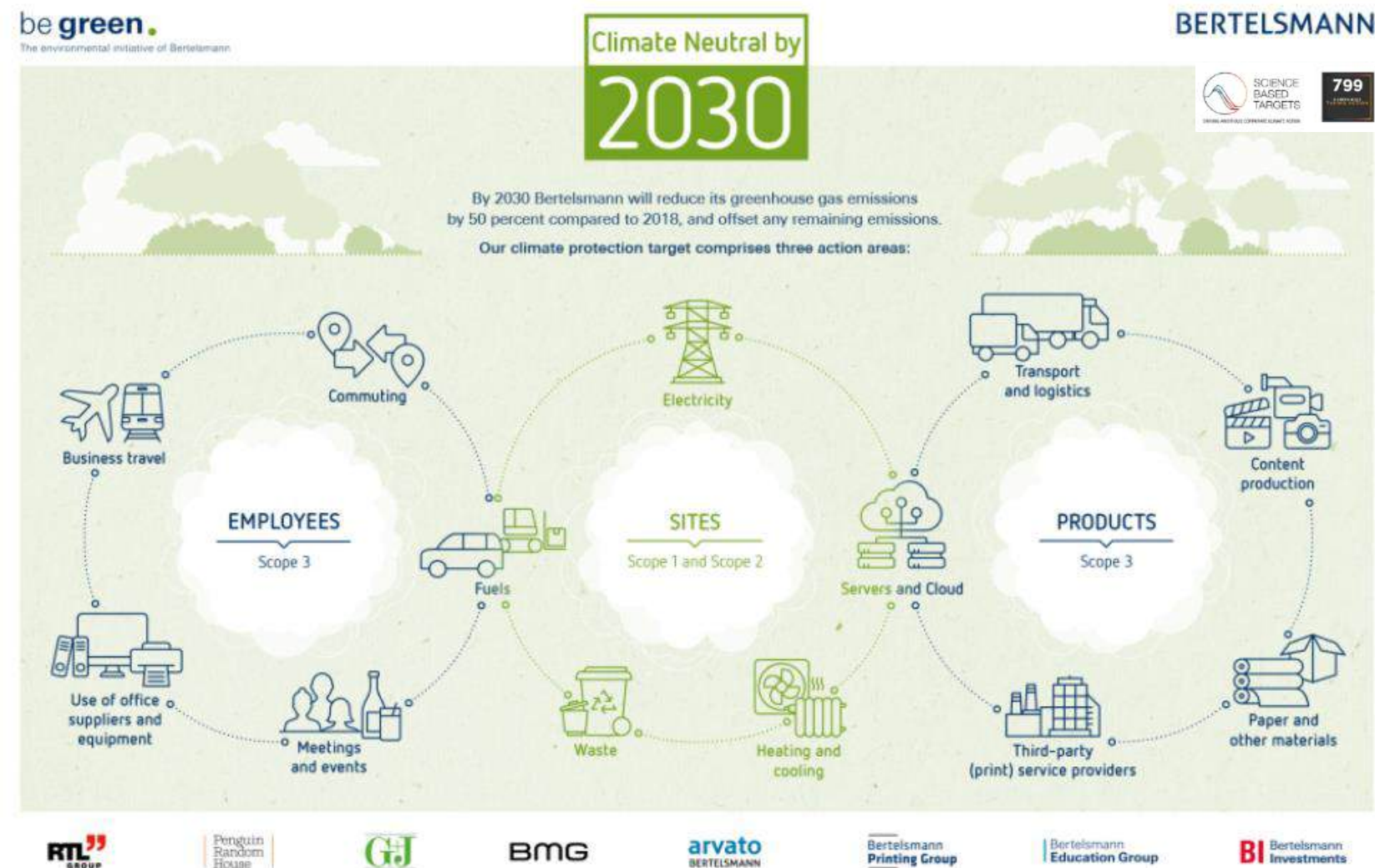
** Ground floor + mezzanine



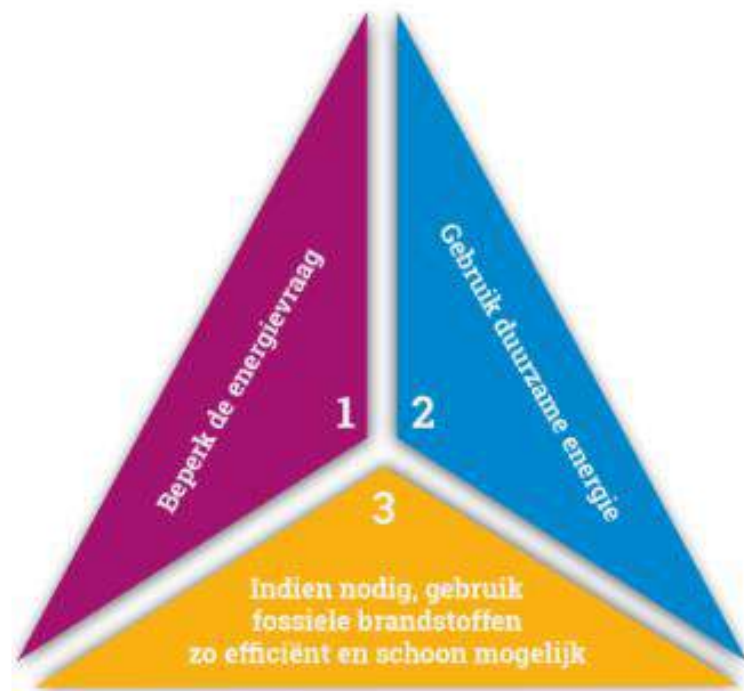
Energy management @ Arvato NL

Arvato SCS Climate Targets

Arvato SCS to become climate neutral by 2030



Trias Energetica



Trias Energetica

1. Limit energy demand by eliminating waste

Reduction, reduction, reduction

2. Use sustainable energy

When we use energy, we ensure that this energy is generated sustainably.

3. Efficient use of fossil fuels

If needed use them as efficient possible. Or replace them in an other way to compensate. (Step 3 needs to be eliminated in the future)

Step 1: Eliminate waste

Culture programs



- Motion sensors > 5 minutes to shut down
- Measuring energy consumption -> submeters
- Unplug items list -> 5s routines
 - Pack tables
 - Glue carton erector
 - Monitors
 - Big machines , e.g., Autostore, Shuttle System
- Awards for awareness and ideas



Warming our people not the earth

- Dummy buttons heaters Office
- Heating in warehouse only where our colleagues are working
- Limit cold flows in the warehouse
- Infrared motion sensor above SV podia
- Draft flaps overhead door ground level
- Clothing for operators
 - Body warmers
 - Gloves
 - Thermos shirt

Step 2: Use sustainable Energy

Balance



± 32%
Direct consumption

Grid capacity a bottle neck to produce more sustainable energy

Target:

Maximize usage of roof energy

Constraint

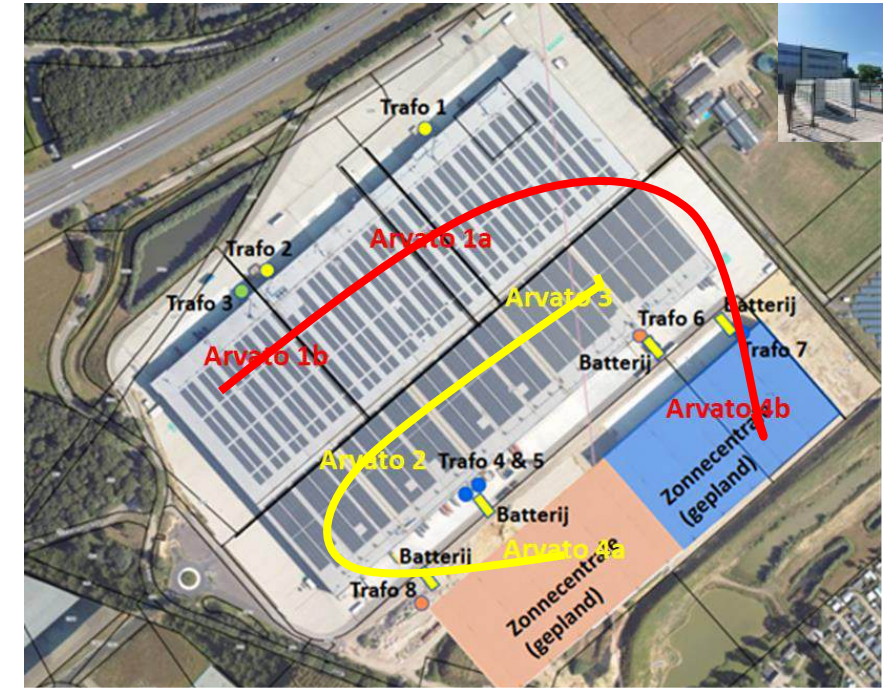
No delivery to the grid possible for this last Roof



Solar expansion despite net congestion

How did we manage this

- Maximize sun production 16 MWP (5,500 households)
- Simulation of local grid capacity on site, resulting in:
- Administrative bundling of connections, optimizing consumption <> production
- 6,45 MW battery
- Measuring energy consumption with smart meters and reducing consumption
- Smart steering of utilities
 - Forklift charging stations, Electrical heat pumps, all other potential equipment



6,450 kWh batteries

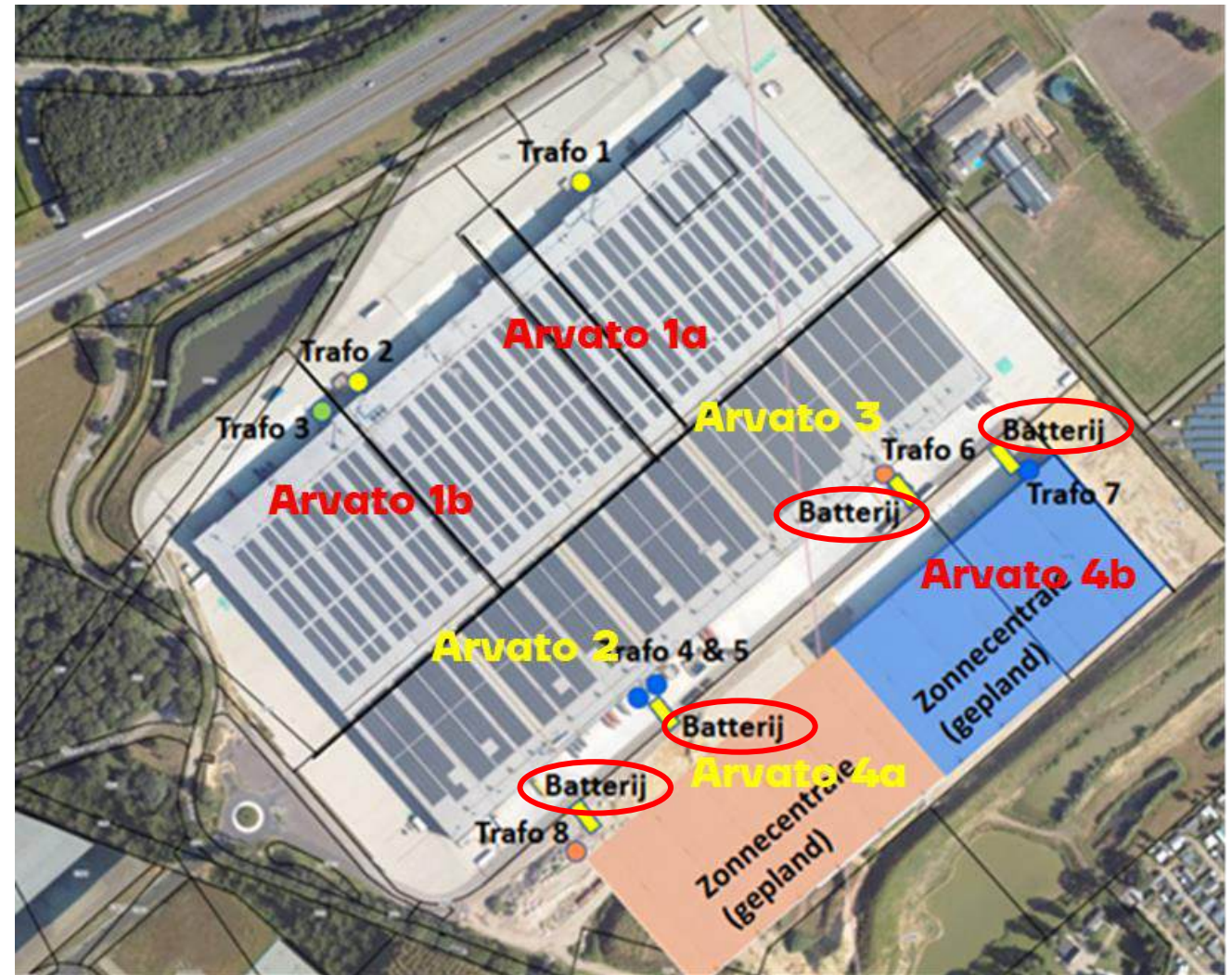
Smart divided

Yellow line

- 2 x 500 kW/1075 kWh
- 1 x 1000 kW/2150 kWh

Red line

- 1000 kW/2150 kWh



Green economy

Thoughts

1. Maximize green/ direct consumption, with support of virtual grid between all trafo's and battery
2. Non valuable consumption eliminated due to better measuring
3. Wind PPA's in time battery and solar is not sufficient
4. Solar energy production which can not be used and stored in Heijen, supply it to other facilities
5. Battery to support the imbalance of the energy market

