

# Inventory of public lighting in Belgium (2023)

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# About Synergrid

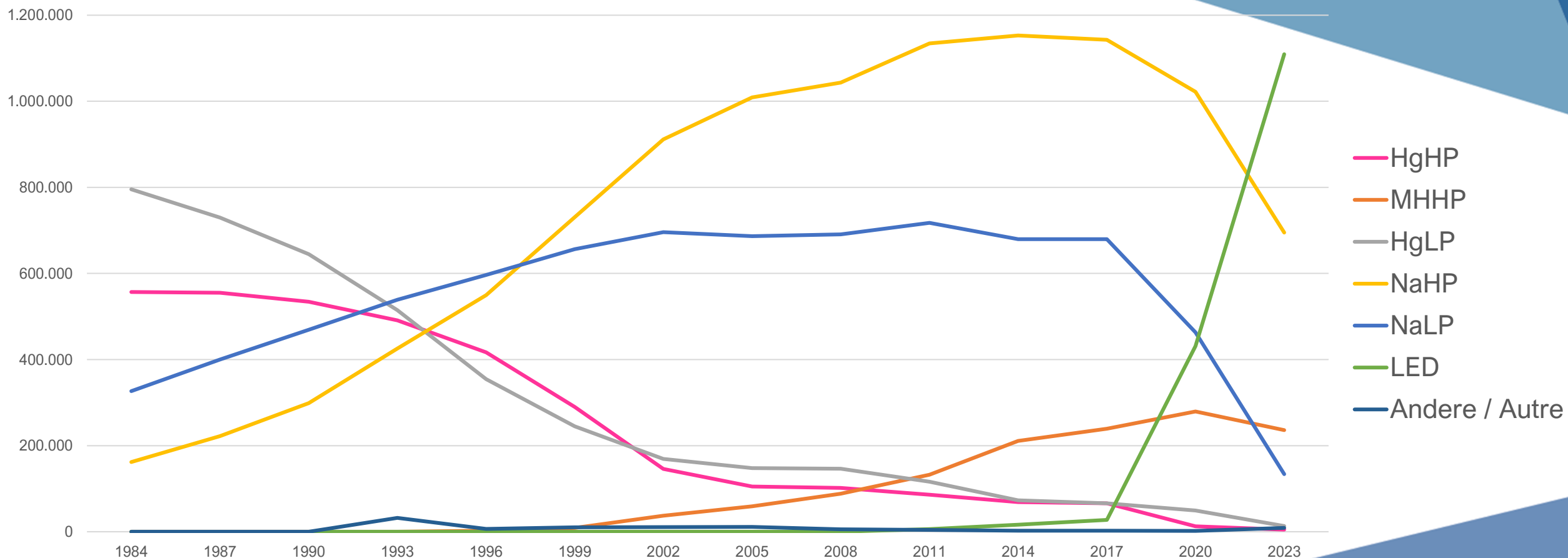
- 6.310.420 electricity customers on 215.700 km of grid
- 3.583.620 gaz customers on 75.260 km of grid
- 13.509 employees
- 2.210.692 luminaires



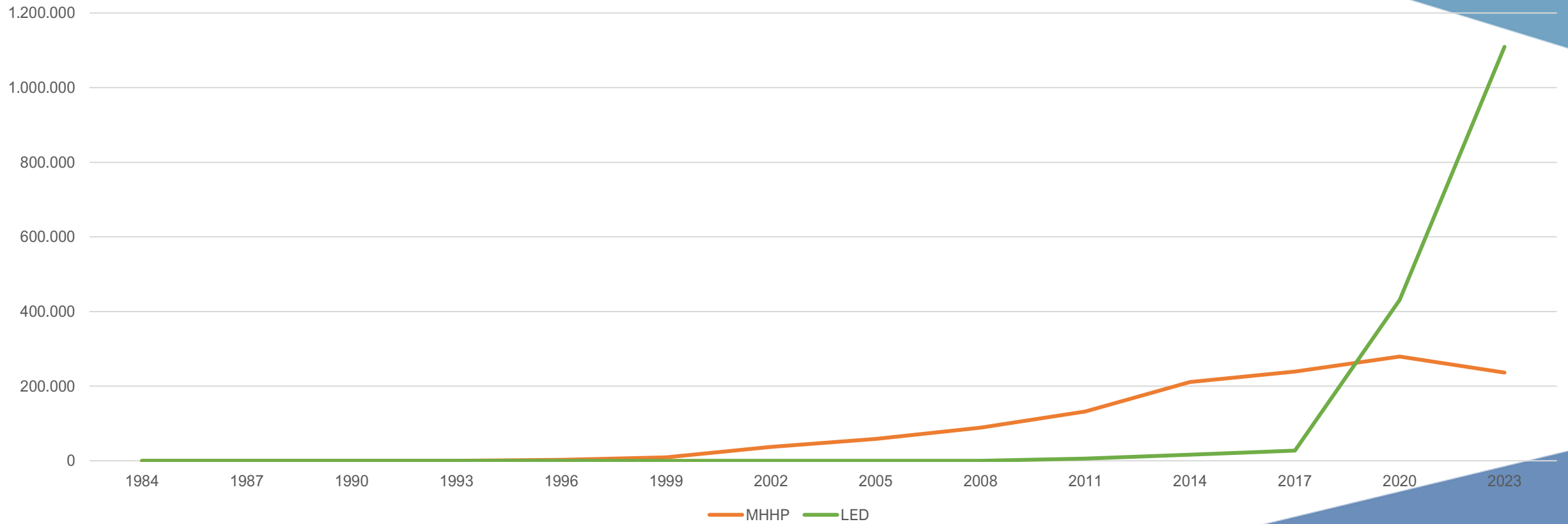
# About the inventory

- The new data is from the end of 2023
- Data is collected from every grid/streetlight operator
- Synergrid is not responsible of the data provided by the operators
- AIEG didn't send any data → estimated data from their website
- Total energy consumption was estimated :
  - Many operators started to proceed to different switch-off periods with the energy crisis (pandemic, war in Ukraine)
  - LED luminaires are controlled with different techniques : integrated dimming, DALI/D4i, ...
- Other sources : CREG

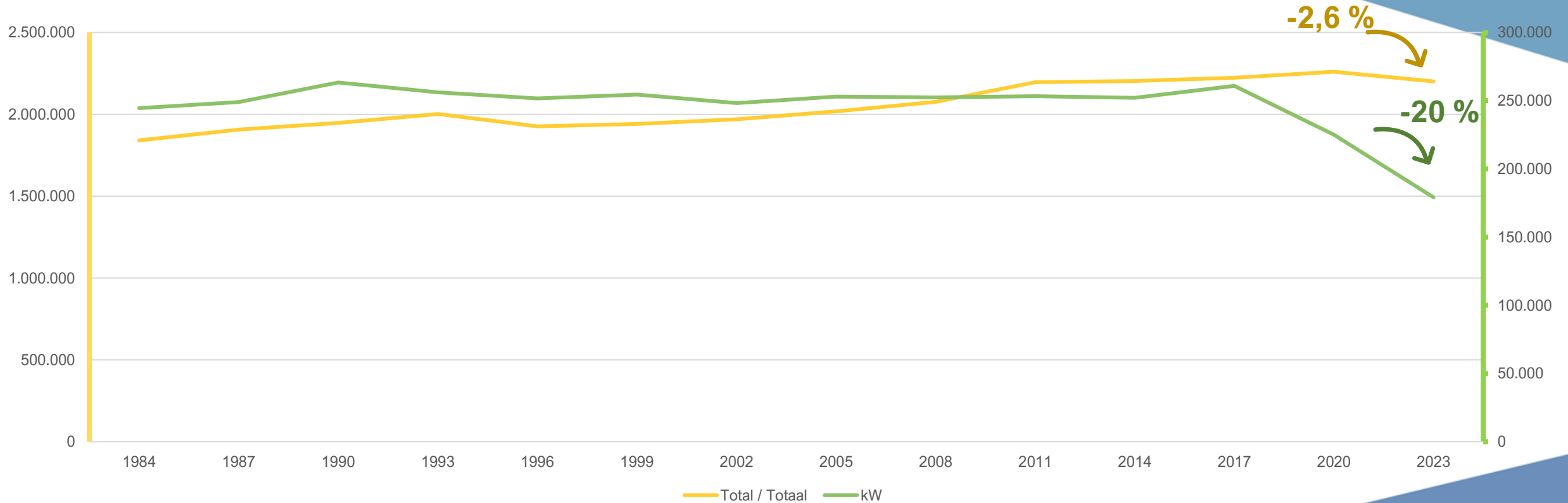
# Technologies through the years



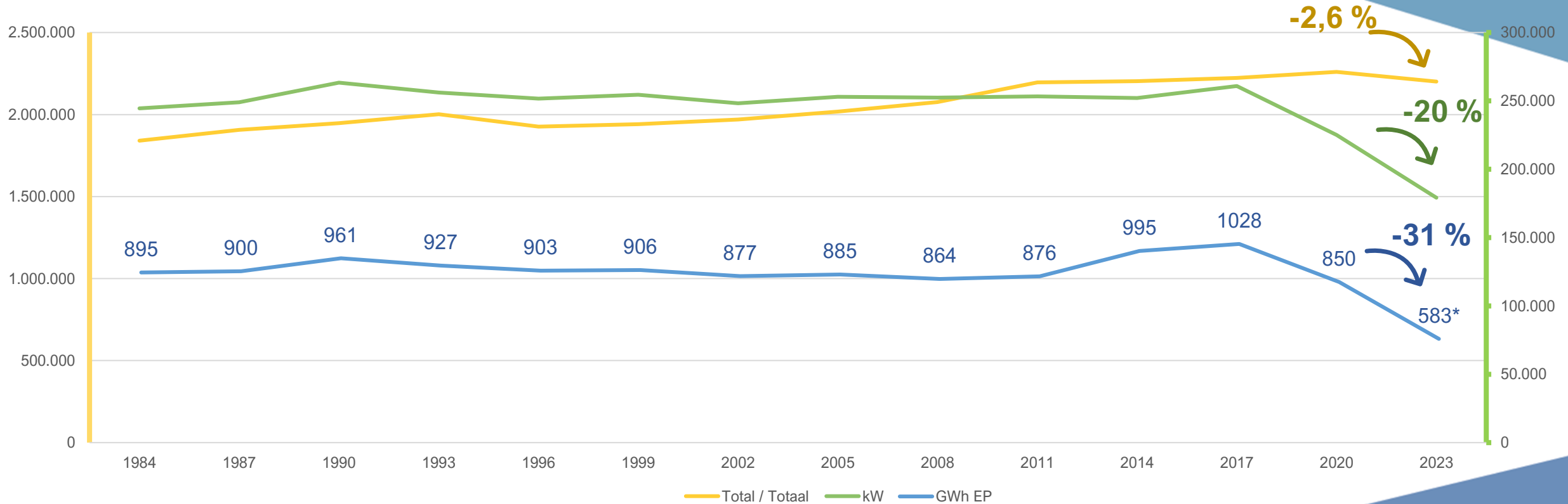
# MHHP vs. LED



# Comparison between light points and installed power



# Comparison between light points, installed power and total consumption



\*2023 electrical consumption was estimated considering an overall dimming/off factor of 0.78 and 4.150 working hours. Real switch-off data during pandemic and Ukraine war were not collected.










Public lighting now represents less than 1 % (0,74) of the annual Belgian electricity consumption (78,4 TWh)

# Lightpoints per type / Installed power per type

<b>HgHP</b>	4.854	0,2%	798	0,4%
<b>HgLP</b>	13.229	0,6%	667	0,4%
<b>LED</b>	1.116.339	50,5%	62.457	34,9%
<b>MHHP</b>	236.191	10,7%	25.663	14,3%
<b>NaHP</b>	695.006	31,4%	80.391	44,9%
<b>NaLP</b>	133.746	6,0%	7.877	4,4%
<b>Others</b>	11.327	0,5%	1.323	0,7%
<b><u>TOTAL</u></b>	2.210.692	<i>lightpoints</i>	179.176	<i>kW</i>



# Power / lamp

Operator	Lightpoints	% LED	Installed power [kW]	Power/lamp [W]
AIESH	8.224	 58 %	401	48,7
AWV	129.589	 51 %	19.672	151,8
FLUVIUS	1.196.243	 46 %	92.070	77,0
ORES	471.024	 50 %	31.409	66,7
RESA	140.634	 65 %	7.278	51,7
REW	6.711	 87 %	328	48,9
SIBELGA	91.285	 23 %	10.120	110,9
SPRB	25.242	 62 %	5.688	225,3
SPW	134.740	 89 %	11.819	87,7

Average = 96,5 W

Weighted average = 81 W

# Thank you

fluvius.



 NBN

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AVEC LE SOUTIEN DU

