

MILIEUPRESTATIE

NMD ACADEMY

Stichting Nationale Milieudatabase



Stichting Nationale Milieudatabase

Een beknopte
introductie





Dutch Environmental Database

- Environmental Platform for the Dutch Construction Sector
- Facilitator of the transition to sustainable, climate neutral and circular construction and infrastructure

Principles



Independent

Storage of reliable LCA environmental data in one central database, at a neutral, independent organisation



Transparent

Organisation of a transparent and verifiable system



Regulated

Regulated application in private calculation tools



Equality

Level playing field for all parties



Governance St. NMD



Samenstelling BMNL

Opdrachtgevers	Gebruikers	Leveranciers
Aedes	BNA	Betonhuis
Neprom	Bouwend Nederland	Centrum Hout
Rijksvastgoed-bedrijf	Koninklijke NL-Ingenieurs	FME
Rijkswaterstaat	OnderhoudNL	Koninklijke Metaalunie
Unie van Waterschappen	TechniekNL	NRK Bouw
VNG	Vereniging van Instrument-eigenaars i.o.	NVTB

Why environmental performance?

1

Reducing environmental impact

More focus on circularity, reuse and lower impact

2

Improving the production process

Environmental data help in making informed choices and improving the production process

3

Government steering

Meeting the minimum MPG score requirement when applying for an environmental permit for new construction



Version 2.0, published 19 February 2025

Environmental Performance Assessment Method for Construction Works

Calculation method to determine the environmental performance
of construction works throughout their service life,
based on EN 15804+A2.

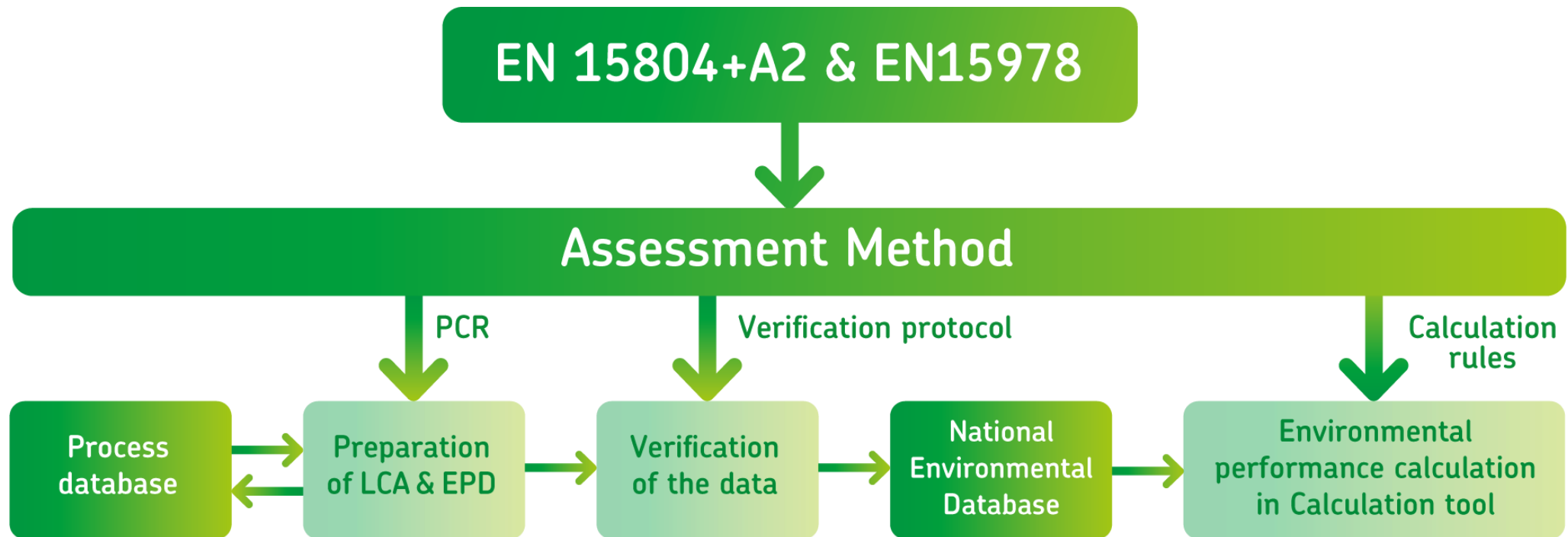


Assessment Method for Environmental Performance of Construction Works

- An environmental performance calculation is carried out in accordance with the Environmental Performance Assessment Method for Construction Works (in short: Assessment Method)
- Both GWW and B&U
- This is based on the European standards EN15804 and EN15978

Assessment Method for the Environmental Performance of Construction Works

Stichting NMD manages the Assessment Method



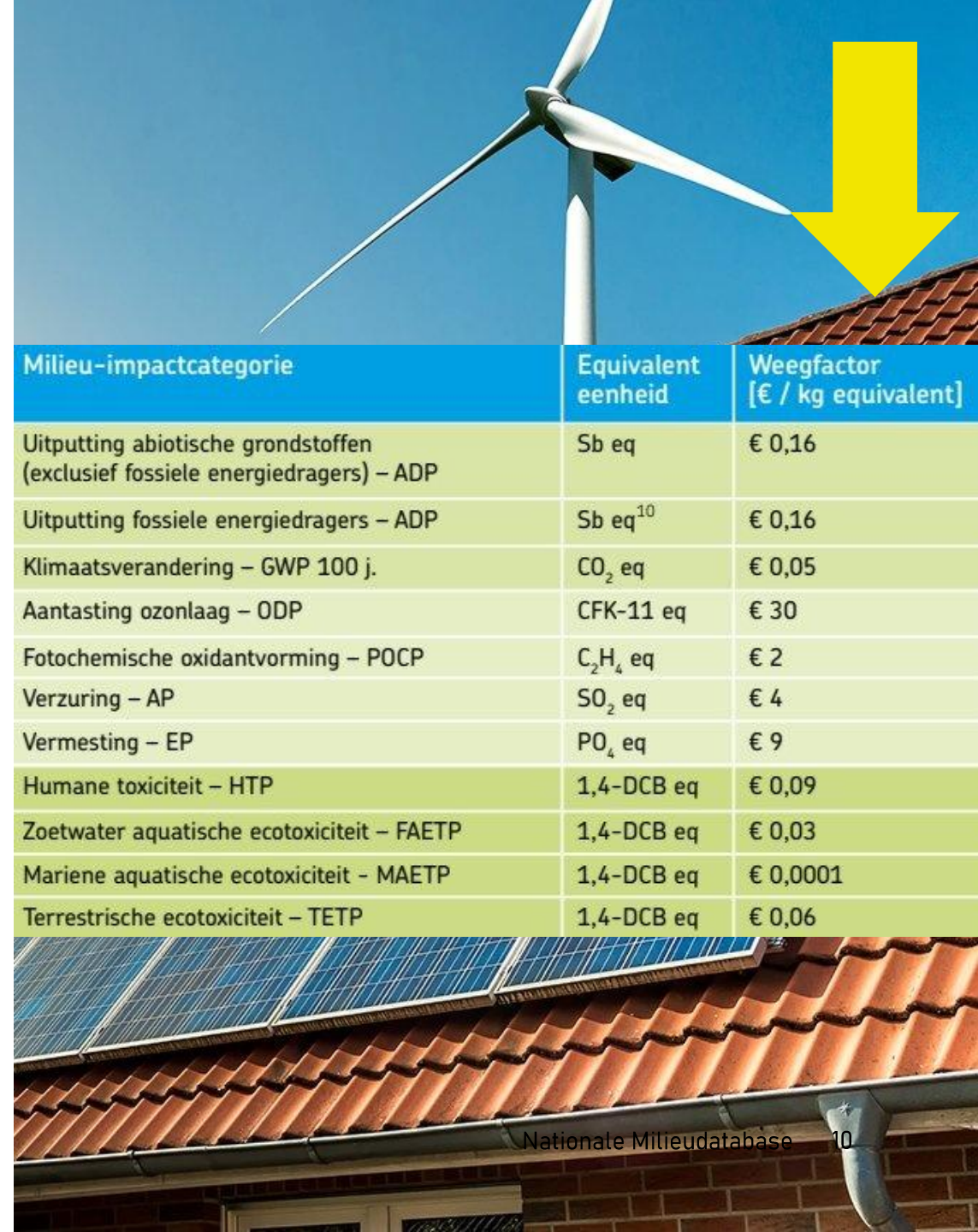
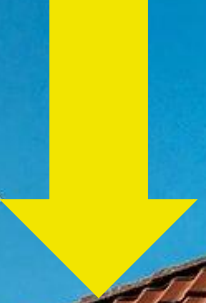


Outcomes of LCA = Environmental profile

- An LCA thus measures the environmental impact of a construction product, which is expressed in an environmental profile
- This environmental profile is stored as an environmental declaration in the NMD

From environmental profile to MKI

- For each environmental impact category, the environmental costs are determined
- These environmental costs are added up into a single score, the Environmental Cost Indicator, ECI (also referred to as the shadow price)
- This is done using fixed weighting factors



Milieu-impactcategorie	Equivalent eenheid	Weegfactor [€ / kg equivalent]
Uitputting abiotische grondstoffen (exclusief fossiele energiedragers) – ADP	Sb eq	€ 0,16
Uitputting fossiele energiedragers – ADP	Sb eq ¹⁰	€ 0,16
Klimaatsverandering – GWP 100 j.	CO ₂ eq	€ 0,05
Aantasting ozonlaag – ODP	CFK-11 eq	€ 30
Fotochemische oxidantvorming – POCP	C ₂ H ₄ eq	€ 2
Verzuring – AP	SO ₂ eq	€ 4
Vermesting – EP	PO ₄ eq	€ 9
Humane toxiciteit – HTP	1,4-DCB eq	€ 0,09
Zoetwater aquatische ecotoxiciteit – FAETP	1,4-DCB eq	€ 0,03
Mariene aquatische ecotoxiciteit – MAETP	1,4-DCB eq	€ 0,0001
Terrestrische ecotoxiciteit – TETP	1,4-DCB eq	€ 0,06

Environmental performance

- The ECIs of all construction products in a construction work = environmental performance:
- Environmental Performance of Buildings (MPG), mandatory in B&U under the BBL
- Environmental Cost Indicator (ECI), increasingly used as an award criterion in tenders (GWW)





GWW: Environmental Cost Indicator (ECI)

The ECI is the sum of the total environmental impact of a product or construction work

In GWW, the ECI is calculated at **project level** over the entire service life

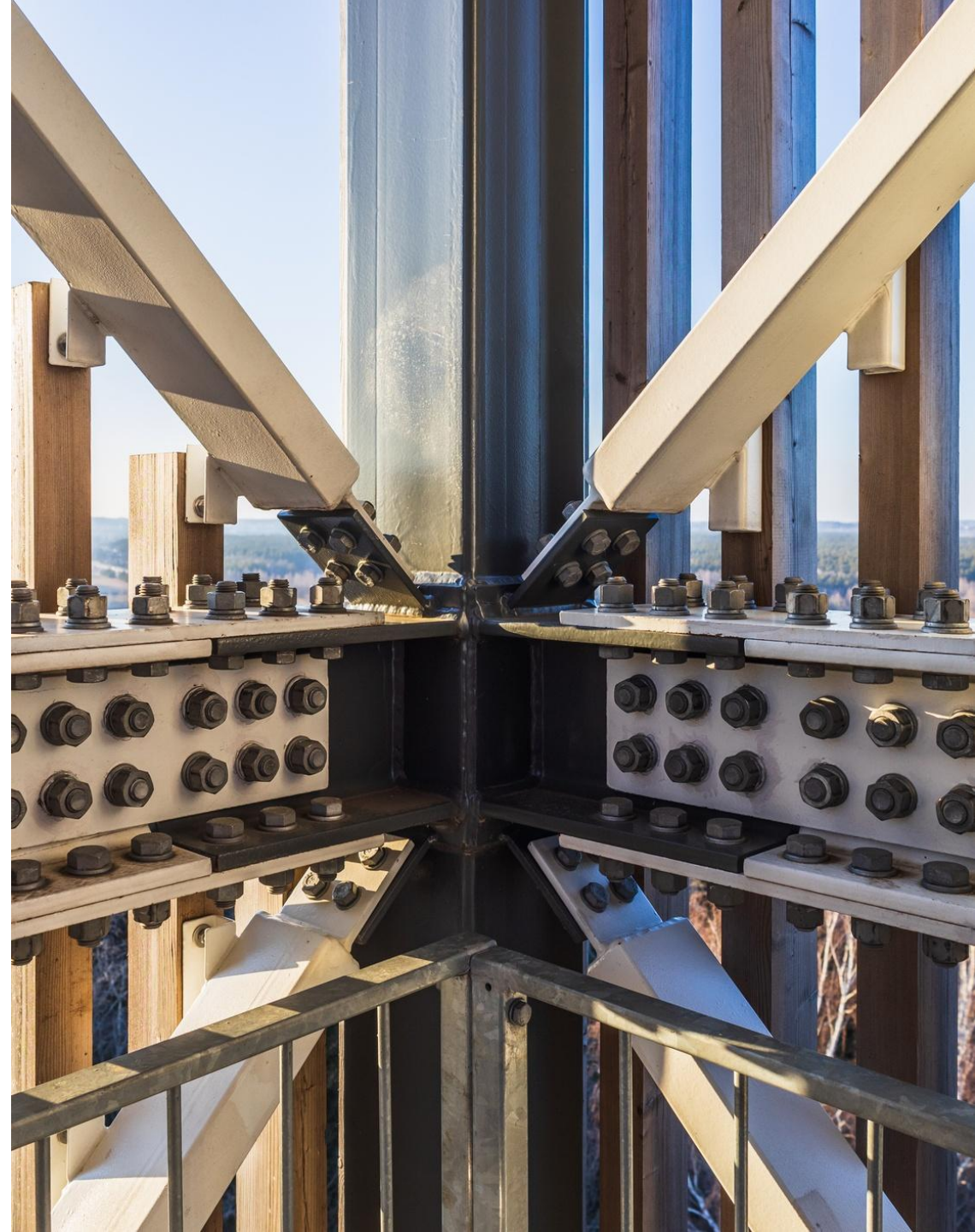
Expressed in €

B&U: Environmental Performance of Buildings (MPG)

MPG = total ECI of all construction products and installations

Per service life of the building
Per gross floor area of the building

Expressed in €/m²/year





Nationale
MILIEUDATABASE

milieudatabase.nl



linkedin.com/company/nationale-milieudatabase/