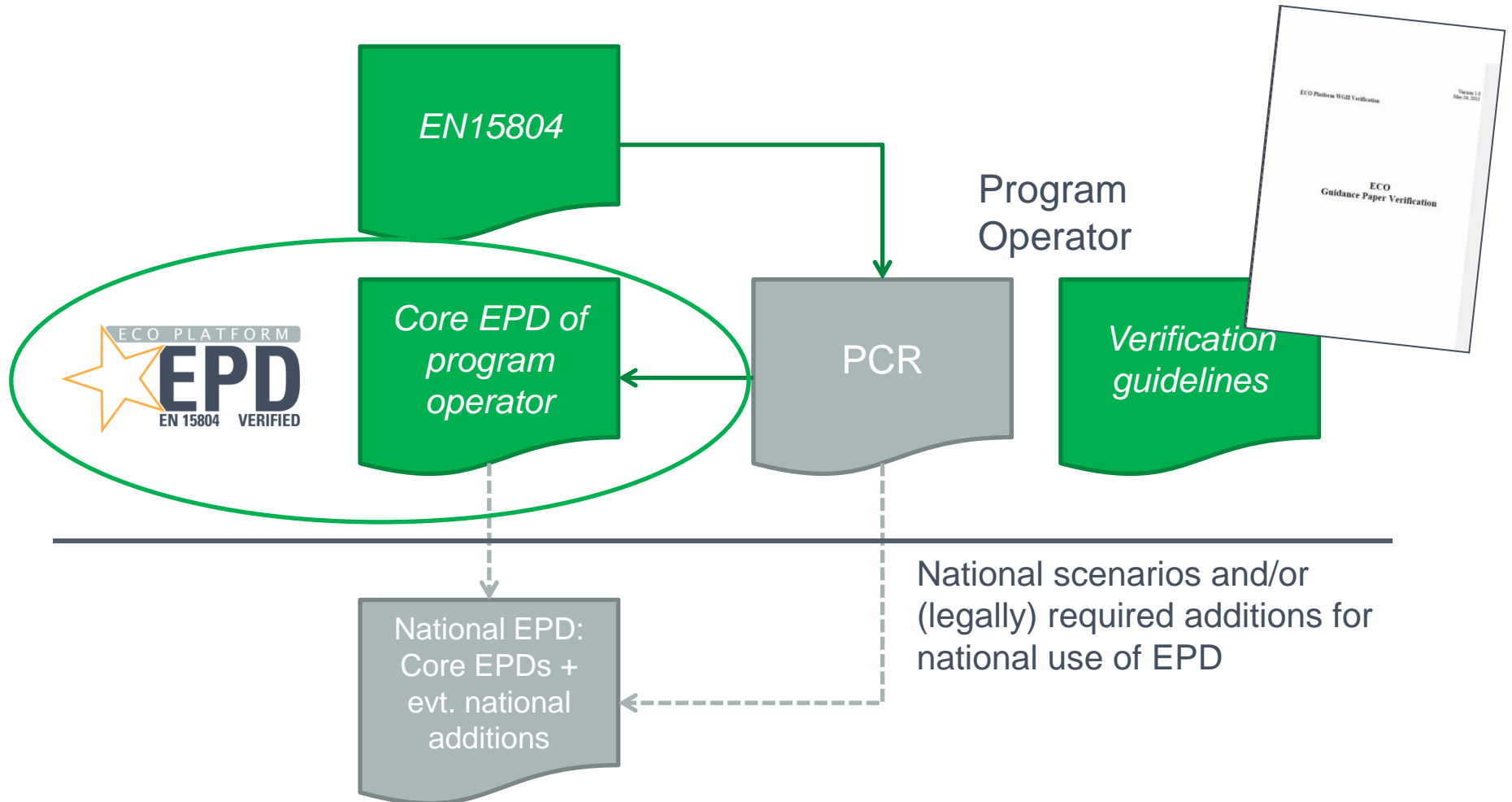




ECO Platform mutual recognition
Common quality and verification

Agnes Schuurmans – Working Group II 16.10.2014

ECO EPD: Core EPD acc. to EN15804



Focus on quality of EPD



★ Promoting quality

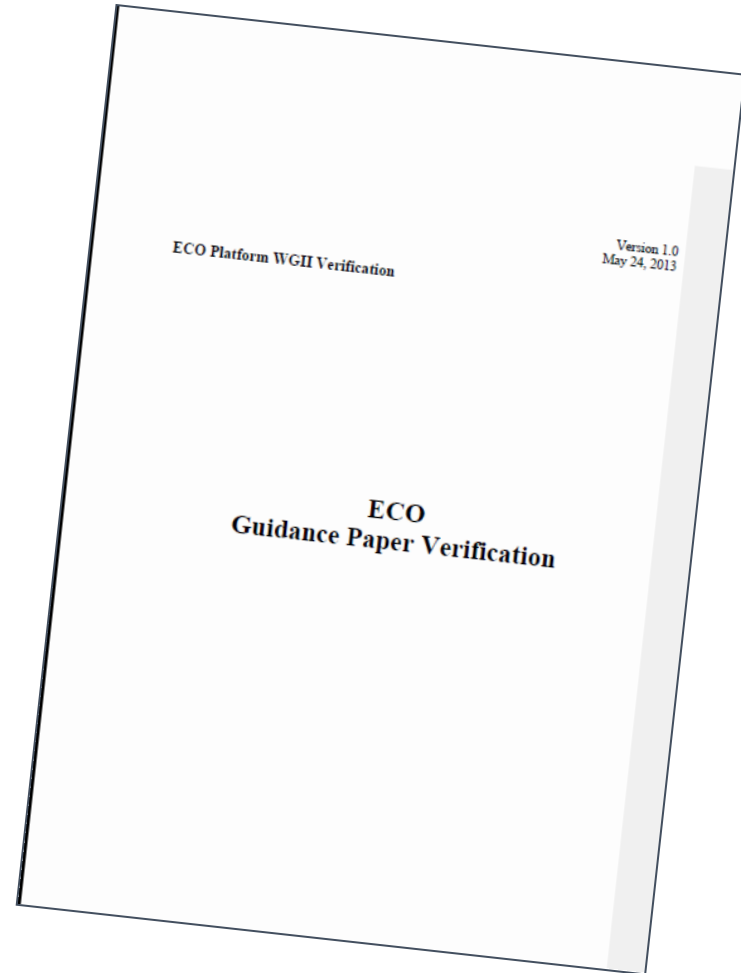
- “The ECO members strive for the highest accepted level of quality of EPD based on EN15804 that can currently be expected on the market which can be mutually recognized.”

★ Acknowledging quality

- “EPD program operators that are ECO members commit themselves to recognize the core EPD part of other ECO member EPD program operators. This core part is that part of the EPD that is in accordance with EN15804 and verified according to the ECO verification guidelines of this Guidance Paper”

***A similar quality level is the foundation
for further mutual recognition of EPDs***

Common quality language: Management EPD program + verification procedures



Common quality rules for verifier



Common quality verification process

ECO checklist

- ★ Compliance with EN15804



Common dossiers EPD Program Operators

I.

Documents covering verification requirements:

- Independency verifier
- Qualification/competence
- Quality control / arbitration

II.

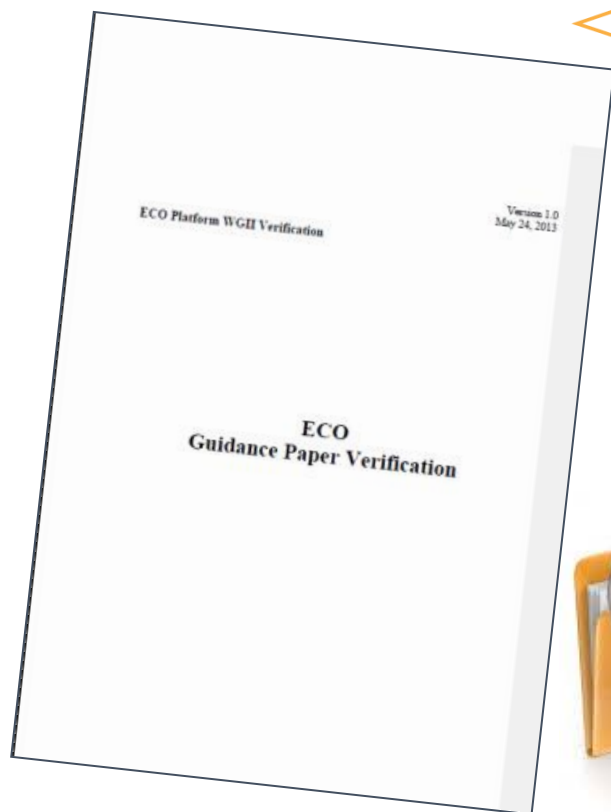
Verification checklist

III.

List of verifiers



Audits between programs



EPD format

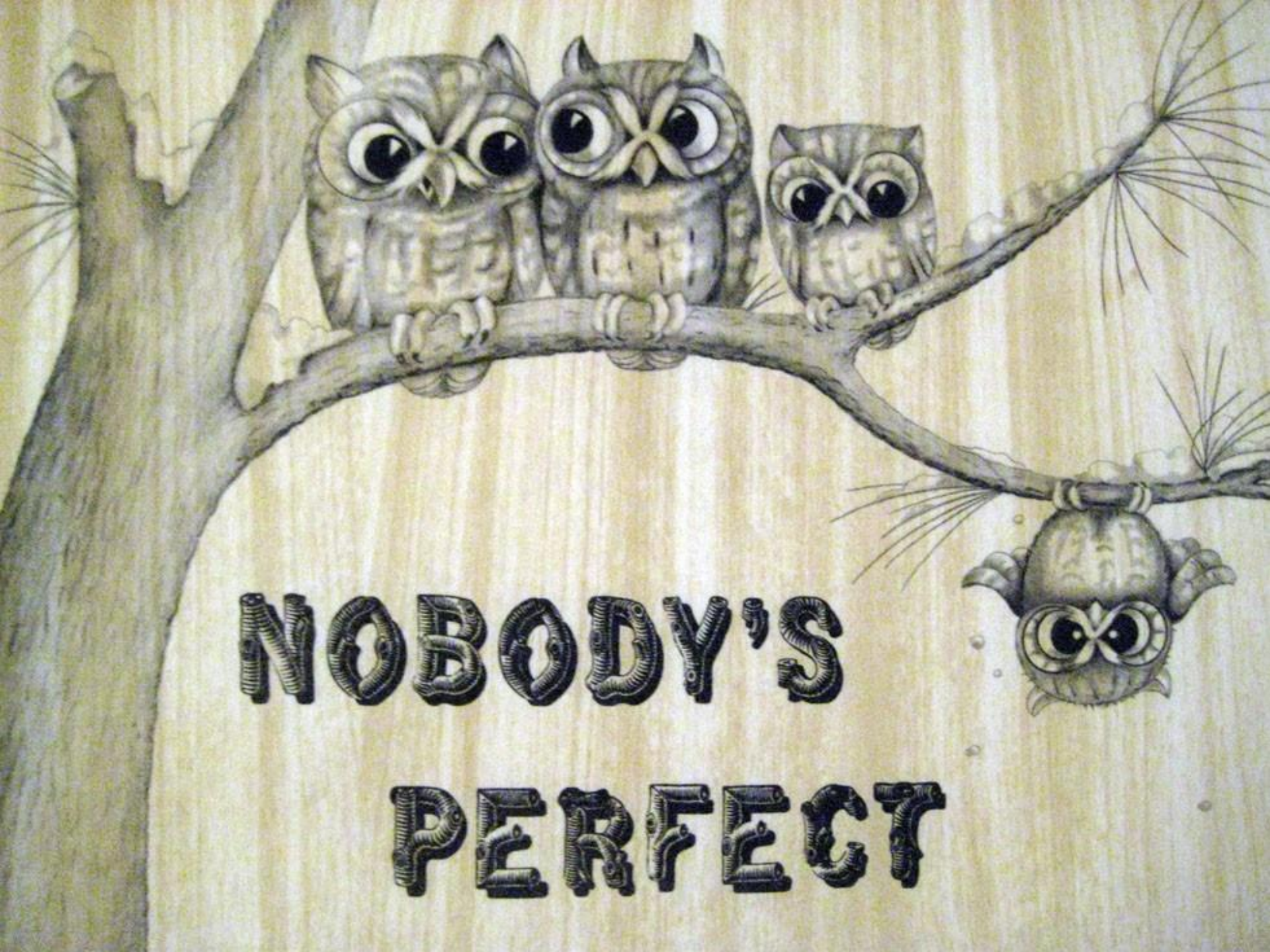
- ★ Compliant with EN15804?

Verification procedure

- ★ In line with ECO checklist?

Dossier

- ★ Complete?



NOBODY'S

PERFECT



Common quality core EPD
≠ comparable national EPDs



bre



LCA Results

(INA = Indicator not assessed, AGG = Aggregated, NA = Not Applicable)

Indicator	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3
		Raw materials supply	Transport to factory	Manufacturing	Aggregated	Transport to site	Construction - Installation	Use	Maintenance	Repair
Environmental impacts per declared/functional unit										
GWP	kg CO ₂ eq.	AGG	AGG	AGG	15.7	1.03	INA	INA	0.000963	INA
ODP	kg CFC 11 eq.	AGG	AGG	AGG	1.24E-05	1.15E-06	INA	INA	7.64E-10	INA
AP	kg SO ₂ eq.	AGG	AGG	AGG	0.0719	0.00578	INA	INA	4.16E-08	INA
EP	kg (PO ₄) ³⁻ eq.	AGG	AGG	AGG	0.00896	0.00132	INA	INA	6.85E-07	INA
POCP	kg C ₂ H ₄ eq.	AGG	AGG	AGG	0.0119	0.000463	INA	INA	5.32E-07	INA
ADPE	kg Sb eq.	AGG	AGG	AGG	3.15E-07	4.95E-10	INA	INA	9.75E-12	INA
ADPF	MJ eq.	AGG	AGG	AGG	421	13.3	INA	INA	0.021	INA
GWP = Global Warming Potential (Climate Change); ODP = Ozone Depletion Potential; AP = Acidification Potential for Soil and Water; EP = Eutrophication Potential; POCP = Photochemical Ozone Creation; ADPE = Abiotic Depletion Potential - Elements; ADPF = Abiotic Depletion Potential - Fossil Fuels										
Resource use										
PERE	MJ	AGG	AGG	AGG	26.1	0.0327	INA	INA	0.000409	INA
PERM	MJ	AGG	AGG	AGG	INA	INA	INA	INA	INA	INA
PERT	MJ	AGG	AGG	AGG	26.1	0.0327	INA	INA	0.000409	INA
PENRE	MJ	AGG	AGG	AGG	448	13.3	INA	INA	0.023	INA
PENRM	MJ	AGG	AGG	AGG	INA	INA	INA	INA	INA	INA
PENRT	MJ	AGG	AGG	AGG	448	13.3	INA	INA	0.023	INA
DM	kg	AGG	AGG	AGG	INA	INA	INA	INA	INA	INA
RDF	MJ	AGG	AGG	AGG	INA	INA	INA	INA	INA	INA
NRDF	MJ	AGG	AGG	AGG	INA	INA	INA	INA	INA	INA
FW	m ³	AGG	AGG	AGG	0.244	0.00137	INA	INA	1.25E-05	INA
PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; DM = Use of secondary materials; RDF = Use of renewable secondary fuels; NRDF = Use of non-renewable secondary fuels; FW = Net use of fresh water										
Waste to disposal										
HWD	kg	AGG	AGG	AGG	0.649	0.000271	INA	INA	3.05E-06	INA
NHWD	kg	AGG	AGG	AGG	0.0201	2.05E-06	INA	INA	6.14E-09	INA
TRWD	kg	AGG	AGG	AGG	0.00109	0.000261	INA	INA	6.96E-09	INA
RWDHL	kg	AGG	AGG	AGG	0.000104	3.40E-05	INA	INA	5.93E-09	INA
HWD = Hazardous waste disposal NHWD = non-hazardous waste disposed; TRWD = Total Radioactive waste disposed; RWDHL = Radioactive waste disposed (high-level nuclear waste)										
Other output flows										
CRU	kg	AGG	AGG	AGG	INA	INA	INA	INA	INA	INA
MFR	kg	AGG	AGG	AGG	INA	INA	INA	INA	INA	INA
MER	kg	AGG	AGG	AGG	INA	INA	INA	INA	INA	INA
EE	MJ	AGG	AGG	AGG	0.445	0.00243	INA	INA	0.000156	INA
CRU = Components for reuse; MFR = Materials for recycling; MER = Materials for energy recovery; EE = Ebiort energy										



Specific Dutch scenario for use / eol

Recalculate with Dutch dbase background data for inclusion in legally required national database buildings

Transport from manufacturer to Netherlands



Common quality core EPD
≠ comparable national EPDs

Important added value ECO EPD:

- **Quality**
- **Common core EPDs**
- **Cost reduction !**

Common quality: Important step in right direction



- ★ “ECO” has started
- ★ We are moving forward
- ★ In an on-going improvement process
- ★ But cannot solve all the national requests from others





Agnes Schuurmans
Convenor WGII on behalf of MRPI

www.eco-platform.org

www.mrpi.nl