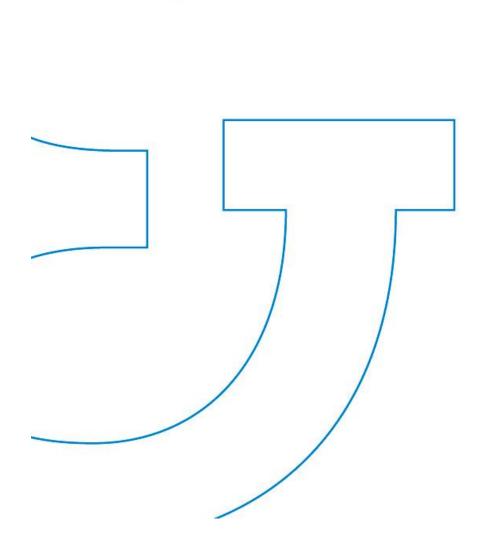


Rijkswaterstaat Ministry of Infrastructure and the Environment

The CO₂-Performance Ladder in sustainable public procurement

Annual meeting EUDA, 15th November 2016

Drs. Harry Zondag

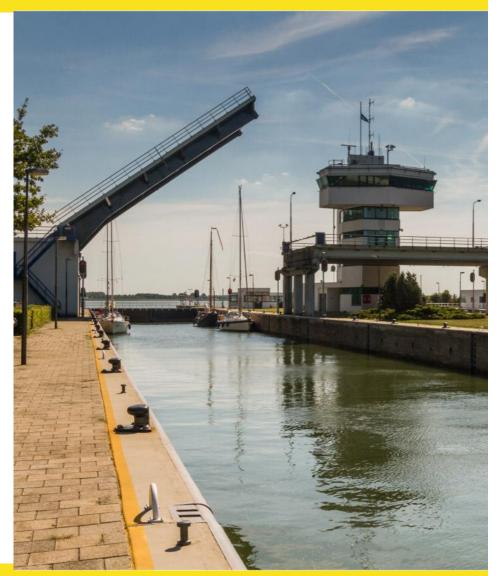




Presentation

Sustainability:

- the Rijkswaterstaat approach
- The CO₂-Performance Ladder
- Explanation
- Experiences
- Future

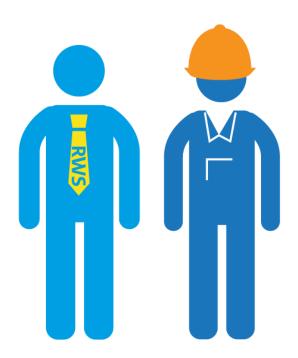


Rijkswaterstaat
CO2 Performance Ladder for RWS



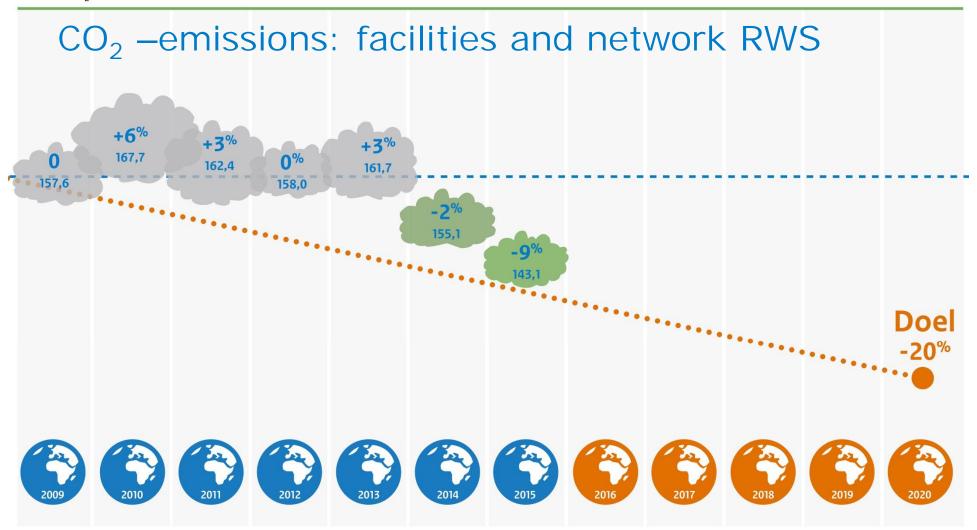
The Rijkswaterstaat approach

- Short term goal: reduce CO₂-emission by 20% in 2020 (compared to 2009)
- Improving our energy efficiency
- Sustainable procurement in our public works
 - Functional specifications
 - Most Economically Advantageous Tender
 (MEAT) with sustainability as quality aspect
 - DuBoCalc (sustainable building calculator)
 - CO₂-Performance Ladder





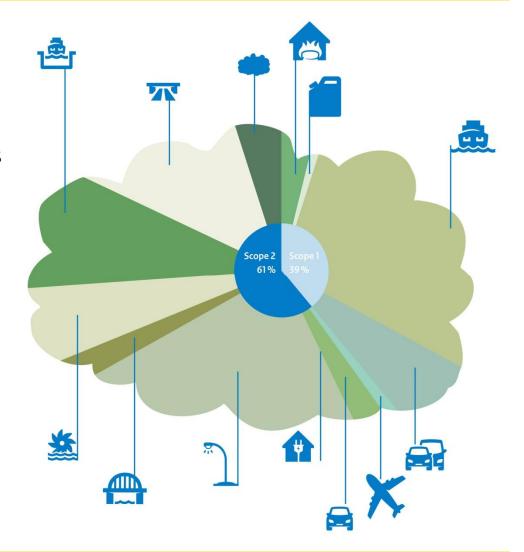
CO₂-emissie 2015 ten opzichte van nulmeting 2009 op basis van CO₂-prestatieladder In kiloton CO₂-uitstoot en in %





Think of.....

- Public lightning (highways)
- Locks, bridges, flood-defences
- Our fleet, vehicles, traveling





Construction & maintenance

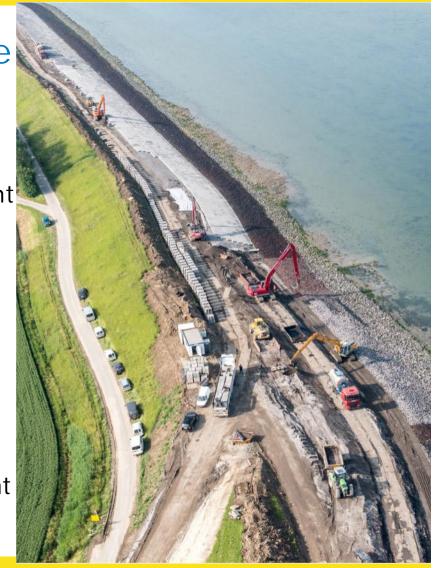
Rijkswaterstaat spends about
 € 4.000.000.000,- /year

 All done by suppliers, so procurement is very important

To compare:

Facilities and use of network in 2015: 143 kiloton CO2
Construction and maintenance in 2015: 1.122 kiloton CO2

• Next slide: carbon footprints different types of construction and maintenance in 2015.



Rijkswaterstaat
CO2 Performance Ladder for RWS



Co_-uitstoot materiaalstromen per categorie, niet gecorrigeerd voor onzekerheidsmarge' In kiloton CO2



Droog grondverzet en zand



Ruimte voor de rivier





Asfalt



Staalconstructies



Zoet vaargeulonderhoud



Kustsuppletie



Waterbouwsteen

Betonconstructies



Wegfundering

Totaal

*Onzekerheidsmarge per categorie: kustsuppletie (5%); zoet & zout vaargeulonderhoud, asfalt en wegfundering (20%); droog grondverzet en zand, betonen staakonstructies (50%); ruimte voor de rivier en waterbouwsteen (onbekend).

KIJKSWaterStaat

Dredging is very relevant



In kilot in CO2

footprint





Droog grond erzet e. zand



Duimte voor de livier



Zout vaargeul nderhoud

Asfalt



Staalconstructies



Zoet vaargeulonde houd

Kustsuppletie 185



Waterbouwsteen



Totaal

Betonconstructies



wesfundering

*Onzekerheidsmarge per categorie: kustsuppletie (5%); zoet & zout vaargeulonderhoud, asfalt en wegfundering (20%); droog grondverzet en zand, betonen staakonstructies (50%); ruimte voor de rivier en waterbouwsteen (onbekend).





The CO₂ Performance Ladder

- Property of The Foundation for Climate-Friendly Procurement and Business (SKAO).
- In SKAO: Public-, Private- and NGO's cooperate
- An accredited CO₂ management system/standard (under ISO 17021)
- Continuous Improvement (PDCA-cycle)
- audit checklist with requirements
- Partially based on and makes use of international standards and methods like ISO 14064, ISO 50001, Capability Maturity Model and the GHG-Protocol
- Annually checked by accredited Certifying organisations







The CO₂ Performance Ladder

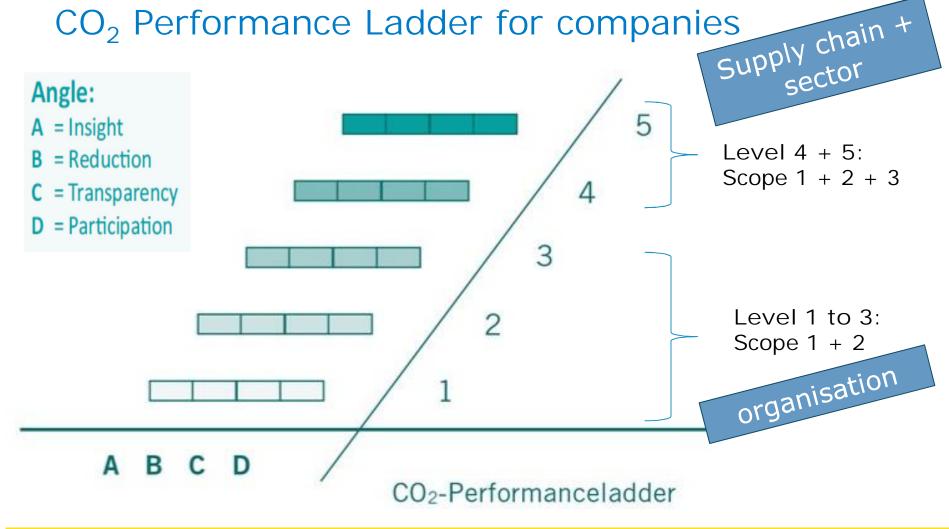
- A procurement tool to encourage companies who participate in tenders to stimulate their CO₂ awareness in their business operations and projects.
- The principle: effort is rewarded:
 a higher score on the ladder means a concrete advantage in the
 tendering process, in the form of a fictitious discount on the tender
 price.
- It focuses on energy savings, the efficient use of materials and low carbon materials and renewable energy.







CO₂ Performance Ladder for companies







Rijkswaterstaat and CO₂ Performance Ladder

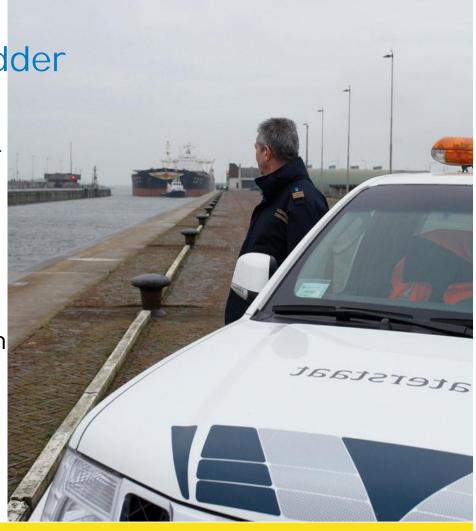
 Standard quality aspect in tendering

 Higher ambition level? => higher fictitious discount on the tender price: Level 5: 5%

Level 4: 4%
Level 3: 3%
Level 2: 2%
Level 1: 1%

 In version 3.0: ambition level can be proved

- by a certificate or
- By a plan + a Certifying Organisation



Rijkswaterstaat
CO2 Performance Ladder for RWS



Experiences

- Most of our large bidders perform at highest level (level 5)
- Annual CO₂ reduction within 25 large companies is 3,2% (2010-2013)
- Of which approximately 30-50% is attributed to the CO2 Performance Ladder
- (source: Improving energy and carbon management in construction and civil engineering companies – Evaluating the impacts of the CO2 Performance Ladder, M. Rietbergen et al, Utrecht University, Journal for Energy Efficiency, 2016)





Actual situation

- 700 certified companies
- Some companies:
 - high ambition, difficult to perform



- Acceptance of the instrument seems to decrease in dredging market (administrative costs and too little distinctive character)
- RWS started an evaluation of the instrument in hydraulic engineering sector (together with SKAO and Vereniging van Waterbouwers)
- Aspects to evaluate:
 - the effectiveness on CO₂-reduction
 - administrative costs at the different levels
 - feedback of companies



Future

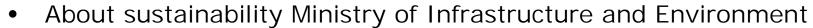
- Evaluation CO₂PL: analyse the outcome and act on it in cooperation with stakeholders.
- CO₂-PL certification: The Ministry of Infrastructure and Environment (including Rijkswaterstaat) will be certified at level 3 in 2017 and at level 5 before 2020
- Our networks have to be energy –neutral by 2030.
 - Reducing energy use
 - Increasing use of sustainable energy and fuels
 - Using assets to produce sustainable energy
- Working on biobased economy / assetmanagement
- Circular economy is the future





More information?

- About the CO2 performance ladder:
 - www.skao.nl
- About the DuboCalc methodology
 - http://www.youtube.com/watch?v=cAaL4FfBQNc http://www.youtube.com/watch?v=LJY9QzxIW2w



- https://publish.folders.eu/fixed/1042237?token=a9f3e21d8f7a7e9d19c11817115749 ef&pageMode=single and
- https://www.rijksoverheid.nl/documenten/kamerstukken/2016/06/05/energieneutral e-netwerken-in-beheer-van-rijkswaterstaat
- About the Rijkswaterstaat procurement policy
 - http://www.rijkswaterstaat.nl/zakelijk





More information?

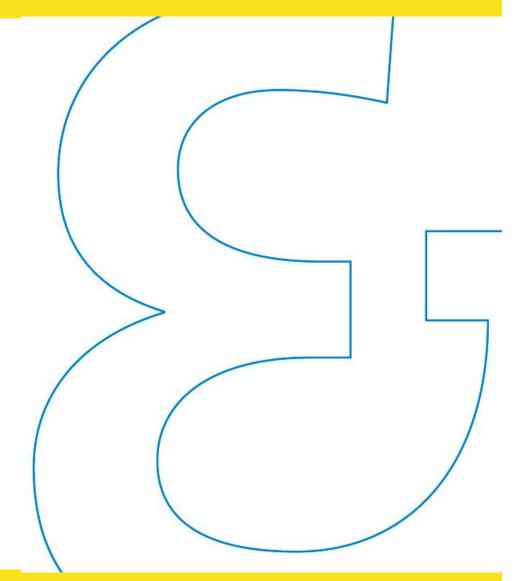
www.rijkswaterstaat.nl/zakelijk

Telefoon: 0800 - 8002

(ma t/m zo 06.00 - 22.30 uur, gratis)

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Rijkswaterstaat CO2 Performance Ladder for RWS