



**Environmental criteria for sustainable public  
procurement of**

**Cables and Piping**

**Version 30 March 2017**

# 1. Scope/definition

The product group Cables and Pipelines comprises all products, services and works with respect to underground cables and pipelines in which government bodies in one way or another play or could play an essential role. The product group concerns the government's own cables and pipelines, for example the purchase or design of the physical cable or pipeline. This concerns the design, installation, management and removal phases. Besides this, all services which aim to provide a protected, safe and properly accessible siting of cables and pipelines (also those of third parties) in the public subsoil belong to this product group. This concerns the initiation or planning phase.

The individual governmental agencies procure all types of underground cables and pipelines currently used. This includes public lighting cables, drains, pipelines for the transport of hazardous substances and waste water transport pipelines with sizes of up to two metres. All facilities which have the aim of protecting these cables and pipelines and keeping them properly accessible are also procured and belong in this product group. Cables and pipelines, including the facilities, are also referred to as the "small underground infrastructure".

The following objects are not counted as being in this product group:

- the cables and pipelines under management of TenneT;
- the cables and pipelines under management of all other cable and pipeline owners, other than government, such as utility and energy companies, industry and other commercial establishments;
- urban heating systems. So far as is known, there are no, or only a very limited number of, government bodies which have urban heating systems independently in their ownership. Where these do in fact exist, they are in co-ownership with a utility company. The design will therefore be placed with said utility company;
- objects already specifically dealt with in other product groups.

The following products (with their corresponding CPV codes) are part of this product group. This list of products is not intended to be exhaustive.

Products	CPV code
Construction work for pipelines, communication lines and power lines	45231000-5
Installation of ducts	45231112-3
Installation of pipelines, communication lines and power lines	45230000-8
Ancillary work for pipelines and cables	45232000-2
General construction work for pipelines	45231100-6
Construction work for oil and gas pipelines	45231200-7
Construction work for water and sewage pipelines	45231300-8
Ducting	44115100-0
Electricity power lines	31321000-2
Pipeline relaying works	45231113-0
Mains	31310000-2
Pipeline-inspection services	76600000-9
Foul-water piping construction work	45232411-6
Pipelines for drainage of surplus rainwater	45232130-2
Pipeline design services	71322200-3
Pipeline, piping, pipes, casing, tubing and related items	44160000-9
Water-main refurbishment construction work	45232151-5
Primary works for services	45111290-7
Connection cables	31224400-6
Ancillary work for pipelines and cables	45232000-2
Construction work for electricity power lines (insofar as these are found underground)	45231400-9
Communication cables	32572000-3
Optical-fibre cables	32562000-0
Laying of cables	45314310-7
Medium-voltage cables	31321220-0

Optical telecommunication cables	32562200-2
Signalling cables	31321700-9
Power distribution cables	31320000-5
Telecommunication cables and equipment	32520000-4
Telephone cables and associated equipment	32551000-0

This document describes the environmental criteria. Information about the other elements of sustainable public procurement, such as social conditions and social return, may be found on the PIANOo website, on the specific product group page: <https://www.piano.nl/document/10834/productgroep-kabels-leidingen>.

## 2. Criteria documents and approach to sustainable groundwork, road and hydraulic engineering

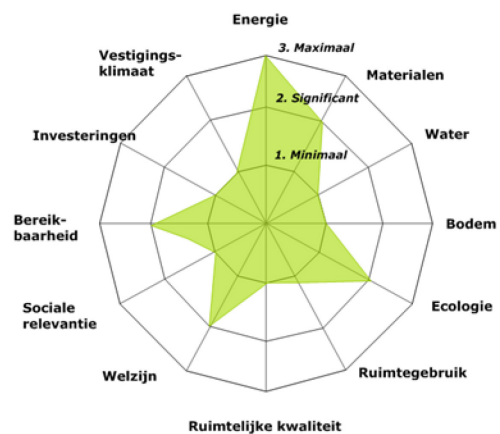
The core of the Sustainable Groundwork, Road and Hydraulic Engineering Approach is to allow sustainability aspects to be a consideration from an early planning stage, with a focus on the whole life cycle of the infrastructure or object(s) to be built. This is the approach that facilitates the biggest gains in sustainability, and it allows a good and broad-based consideration of People, Planet and profit to be made in every project (see also <http://duurzaamgww.nl>).

The AmbitionWeb has a key role in the Sustainable Groundwork, Road and Hydraulic Engineering Approach. It helps clarify ambitions in an early stage of a project, so they can then be maintained throughout the entire project process, from start to finish. For more information about the Sustainable Groundwork, Road and Hydraulic Engineering Approach and AmbitionWeb, see <http://duurzaamgww.nl/ambitieweb>.

The AmbitionWeb revolves around a number of sustainability themes, each with three ambition levels:

1. insight into the biggest impactors and flows for the theme in question, with the achievement of a minimum level, “state of the art”;
2. drafting specific reduction targets and achieving a significant improvement on the theme in question;
3. adding value, instead of just making things “less bad”.

Not only is the impact on people/planet/profit zero, but a positive contribution is made.



Part of level 1 is meeting the suitability requirements, minimum requirements and contract provisions of the Sustainable Procurement criteria documents. The award criteria may be used to make a contribution to levels 2 and 3.

The following table presents the themes, based on the classification used in the criteria documents, on which the buyer can actually have an impact by using the requirements and criteria in this criteria document. It should be noted that a slightly different classification is used in the AmbitionWeb.

Below is a list of the requirements and criteria broken down by the individual themes. The criteria documents identify a total of five themes (the corresponding theme from the AmbitionWeb is shown in brackets):

- energy and climate (AmbitionWeb: “energy”)
- supplies and raw materials (AmbitionWeb: “supplies”)
- water and soil (AmbitionWeb: “water” and “soil”)
- living environment (AmbitionWeb: “welfare”)
- nature and space (AmbitionWeb: “ecology”)

The following table presents the themes on which the buyer can actually have an impact by using the requirements and criteria in this criteria document.

Themes	Level 1 AmbitionWeb Selection criteria (SC) Technical specifications (ME) Contract provisions (CB)	Level 2 AmbitionWeb Award criteria (GC)
<b>Energy and climate</b>		GC1. Energy-saving design
<b>Supplies and Raw materials</b>	ME1. Processing/removal of released substances  CB1. Management and maintenance plan	

### 3. Assignment of criteria to project phases

The criteria apply to new placement and reconstruction and also to the management and maintenance of existing works, as well as demolition. In the following table, the criteria are assigned to the individual phases to which they apply.

Area of application Criterion	Initiative, design	Completion	Management and Maintenance	Demolition
<b>Technical specifications</b>				
1. Processing of substances released	-	x	x	x
<b>Award criteria</b>				
1. Energy-saving design	o	o	o	-
<b>Contract provisions</b>				
1. Management and maintenance plan	-	x	x	-

x = include in this phase

- = do not include in this phase

o = optional

#### Mobile vehicles

The environmental criteria for Sustainable Public Procurement of Mobile Equipment contracting apply to any mobile vehicles used.

### 4. Selection criteria

Not defined for this product group.

### 5. Technical specifications

No.	Technical specifications (ME)
ME1	<b>Processing/removal of released substances</b> <ol style="list-style-type: none"> <li>If stony waste is broken up, the breaking must take place according to BRL 2506.</li> <li>Tar-containing asphalt (granulate) must be transported away to a processing and treatment establishment in the Netherlands, licensed on the grounds of the Environmental Management Act, for the thermal cleaning of the tar-containing material.</li> <li><i>(In the case of a temporary establishment, which does not come within the Environmental</i></li> </ol>

	<p><i>Management Act and the Activities Decree)</i> Provisions must be made on the implementation site to store separately or otherwise transport away separately the different types of waste arising from the activities. Provisions must also be made on the implementation site for the separate storage of released secondary raw materials.</p> <p><i>Explanation of point 2 of this criterion</i> The purchaser is advised to employ CROW publication 210 “Richtlijn omgaan met vrijgekomen asfalt – teerhoudendheid, onderzoek en selectieve verwijdering” (Guideline for dealing with released asphalt – tar retention, analysis and selective removal).</p> <p><i>Explanation of point 3 of this criterion</i> The part of the requirement concerning the separation of waste substances is indeed already a legal requirement for most establishments, arising from the Environmental Management Act, but because temporary establishments do not fall under this, said requirement is therefore stipulated here explicitly.</p> <p><i>Verification</i> Verification with regard to point 1: The tenderer may be asked to submit a KOMO product certificate "BRL 2506 Recycling granulates for use in Groundwork, Road and Hydraulic Engineering works and concrete" in the name of the tenderer or subcontractor. Certificates can be verified on <a href="http://www.bouwkwaliteit.nl">www.bouwkwaliteit.nl</a>.</p>
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## 6. Award criteria

No.	Award criteria (GC)
GC1	<p><b>Energy-saving design</b> The more energy-saving a design for cables and pipelines is, the higher the tender will be graded. Assessment will take place based on a short description of the following elements which must be detailed in the design with an associated estimate of energy consumption.</p> <ul style="list-style-type: none"> <li>• ...;</li> <li>• [to be completed further by the purchaser].</li> </ul> <p>The estimated energy consumption should be calculated in kWh/usage year. The plan will be assessed on its technical realism content and the level of the estimated energy consumption of the elements listed above. The tender will be evaluated as follows: [...].</p> <p><i>Explanation</i> The contracting authority must detail this criterion further by awarding points, taking account of the relative importance of this criterion. The elements to be assessed must be described clearly and unambiguously. As reference, for example a comparison may be made with a similar system in which in any event the technical specifications as listed in this document are applied. In the replacement of an existing situation, the energy consumption of the old situation may serve as a lower limit.</p> <p><i>Verification</i> The tenderer may be asked to submit documentation demonstrating compliance with the requirements above.</p>

## 7. Contract provisions

No.	Contract provisions (CB)
CB1	<p><b>Management and maintenance plan</b> During the handover of the cable and/or pipeline system, a management and maintenance plan must be supplied, in which the maintenance measures necessary to maintain the cable and/or pipeline system are described. The plan should describe the means of management and maintenance necessary to maintain the sustainable aspects of the cable and/or pipeline system. [to be completed further by the purchaser]</p>

	<p>The plan should consist in any case of the following sections:</p> <ul style="list-style-type: none"> <li>• description of the management measures to be taken into account with inspection intervals for a period of XX years, with associated instructions (at least describing inspection points, methods, estimated number of person-hours);</li> <li>• description of the maintenance intervals to be taken into account for a period of XX years, with associated instructions (at least describing maintenance activities and necessary materials and energy, and an estimate of the number of person-hours and any relationship with other activities for which for example excavation is necessary).</li> </ul> <p><i>Explanation</i></p> <p>The sustainable aspects of the cable and/or pipeline system may be relevant for example to the maintenance and management of certain materials and installations. A certain low-maintenance material may require a modified maintenance regime.</p> <p>If a change takes place such that a new maintenance and management plan is necessary, separate agreements must be made with the tenderer for this. Provisions for this may also be laid down in the contract.</p>
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