

[municipal crest] Oslo

City of Oslo

Standard climate and environmental requirements for City of Oslo construction sites

1 Introduction

This document is intended to serve as an updated explanation for the City of Oslo's standard climate and environmental requirements for the city's construction sites. The requirements were adopted by the city government in 2019, and this annex was last updated in 2023.

The objective of the requirements is to reduce GHG-emissions from construction activities by requiring construction sites to be fossil-free and zero-emission. These requirements must be viewed and applied in the context of other environmental requirements each individual undertaking has adopted in the procurement in question, as well as statutory requirements.

The requirements were adopted by the city government on 09/10/2019 in City Government Proposition 1091/19 and apply to all construction contracts where the City of Oslo's standard construction contracts are used. Indirect emissions related to materials used, energy production, waste, etc. are not directly discussed, but may be included in the award criterion for other environmental concerns.

Requirements included in the guides and evaluation models prepared by the Agency for Improvement and Development (UKE) shall be applied in accordance with the decisions made in connection with the proposition. City principals are advised to review the guide and evaluation model found on the City's intranet (this link will not work for users external to City of Oslo undertakings).

The document describes minimum requirements, award criteria and contract requirements to be used insofar as they are relevant.

- Contract requirements shall be used for all procurements from NOK 500,000 excl. VAT.
- For procurements with an estimated value exceeding NOK 5 million, excl. VAT, contract requirements and environmental requirements shall be used as award criteria, see section 3.1.
- For procurements with an estimated value not exceeding NOK 5 million, excl. VAT, contract requirements shall be used. The environmental award criteria are optional. Smaller procurements may also use a simplified set of award criteria, see section 3.2 (optional).

- For procurements with an estimated value exceeding the EEA threshold, minimum requirements shall be used in addition to contract requirements and environmental requirements.

Table 1 – When to use the different types of requirements in procurements of various values?

Procurement value	> NOK 500,000	> NOK 5 million	> NOK 56 million
Contract requirements	X	X	X
Award criteria		X	X
Minimum requirements			X

1.1 Definitions

Fossil-free

Non-fossil energy carriers. Fossil-free energy carriers are, in this context, biofuels (biodiesel, bioethanol, biogas), pellets, electricity, hydrogen and hydronic heating.

Emission-free/zero-emission

Energy carriers that do not yield emissions in use. Zero-emission technologies do not have direct emissions of greenhouse gases and exhaust when used. This does not mean they are dust-free. Emission-free energy carriers include electricity, hydrogen and hydronic heating. Emission-free machinery/vehicles include battery electric and plug-in electric machinery/vehicles that use hydrogen-based or other zero-emission technologies.

Machine Register

The Machine Register is a register for all types of machinery and equipment exceeding a certain rating. A complete online overview of machinery, with relevant information about fuel types and consumption.

European standard (Euro)

Vehicle emission standard (local air pollution, not greenhouse gases) the vehicle is classified under in accordance with Chapter 25 of the Norwegian Regulations on Technical Requirements and Approval of Vehicles, Parts and Equipment (Vehicle Regulations) and any preceding regulations. Vehicles classified under older emission standards shall be classified as pre-Euro.

Stage

Classification for all new machinery. The Stage specifies emission levels (local air pollution) permitted for new machinery in EU member states, cf. Sections 25-26 of the Vehicle Regulations. The Stage is equivalent to Euro for vehicles.

Construction machinery

Mobile machinery capable of self-propulsion that is used to carry out heavy lifting in construction sites.

Tools

Motorized hand-held equipment. E.g. chainsaws and drills.

Mass

Rocks, gravel, sand, aggregate, earth, blocks transported to/from the construction site, as well as crushed concrete and bricks transported from the construction site.

Last mile

Last/closest transport distance to/from the construction site.

Minimum requirements

Description of characteristics required in the product/service procured.

Award criteria

The characteristics of each tenders to be taken into consideration to determine which is the winning tender.

Contract requirements

The general and specific requirements that apply to the contract.

Best Value Procurement (BVP)

Best Value Procurement (BVP) is a method for project management and procurements that emphasizes the supplier's expertise and performance. See [Best Value Procurement \(BVP\) prestasjonsinnkjøp | Anskaffelser.no](#) (in Norwegian) for more information.

Collaborative contracting

A collaborative approach to construction projects, where all parties get involved at an early stage of the project. Among other things, the parties collaborate on the choice of solutions and/or project execution. The project is executed with shared objectives and shared economic interest. In collaborative contracting, an integrated project team is established with the main undertakings involved in project planning and execution. The integrated project team works together on the project planning toward an agreed target price.

1 Specification: minimum requirement

Req. no.	Requirement	Documentation
1	<i>Emission-free heating</i>	
	Heating and drying shall be emission-free, e.g. by using electricity, district heating or other zero-emission technology.	The supplier shall include a brief written account of how heating and drying will be emission-free.

Guidance: Emission-free heating

Requirement that must be included in specification of requirements for construction procurements > NOK 56 million (EEA threshold)

All energy used for heating purposes must be emission-free. The minimum requirement applies to the entire construction period. During the planning phase, the client must contact the infrastructure owner (Elvia/Hafslund Celsio) for preliminary infrastructure enquiries.

For some procurements where the necessary infrastructure for emission-free heating is not available on time, the client may grant exemptions from the minimum requirement of emission-free heating, e.g. if the network upgrade required is considerable and will take longer than anticipated. If this has not been cleared with the infrastructure owner beforehand, the requirement should be removed. If the requirement is removed, correspondence with Elvia/Hafslund Celsio must be presented upon request in connection with an audit, if relevant. The choice to remove the requirement must be justified in the contract strategy.

Please note that the use of mineral oil (fossil oils, diesel, etc.) for heating and dehumidification is prohibited from 01/01/2022, see [Section 2 \(e\) of the Regulations Prohibiting the Use of Mineral Oils](#).

2 Request for tender: award criterion Environment

Guidance: Award criterion Environment

The award criterion Environment shall be used, with the following sub-criteria, in all contracts exceeding NOK 5 million: Emission-free machinery, Mass hauling and Other transport

The recommended weighting for this criterion is 30%, cf. Section 7-9 of the Public Procurement Regulations. The lowest possible weighting is 20%. If there are multiple sub-criteria, the sub-criteria concerning direct emissions from construction activities shall count for at least 50% of the award criterion Environment. The award criterion Environment is optional for contracts with an estimated value not exceeding NOK 5 million.

In contracts where stringent minimum requirements for environmental considerations apply, e.g. emission-free construction sites or stringent minimum requirements concerning lifetime environmental performance, the award criterion Environment can be weighted lower or be removed.

Other potential sub-criteria in the award criterion Environment can, for example, concern greenhouse gas emissions from the production of materials (LCA/EPD), geographical location, building energy consumption, measures reducing acute pollution during the construction phase, extra protection of biotopes, lifecycle greenhouse gas calculations or other relevant considerations in the specific construction project.

If one does not want to supplement additional sub-criteria for environmental concerns, the sub-criteria for direct emissions from construction activities can be weighted higher. The sub-criteria must always make up 100% (total) of the total award criterion.

For each procurement, the client must assess the relevance of each sub-criterion. The sub-criteria are primarily aimed at groundwork activities in a construction contract. For split contracts that do not include transport or construction machinery, one should consider including other, relevant environmental criteria. The standard climate and environmental requirements for transport can be used, where appropriate.

The award criterion Environment is divided into the sub-criteria Emission-free machinery, Mass hauling, Other transport and Other environment. The recommended weighting for these sub-criteria is, 50%, 30%, and 20%. The weighting for the sub-criteria is advisory only and can be adjusted up or down based on the needs of the specific procurement.

[figure:]

	Price 30%
	Quality 40%
	Environment
	Other environment
	Construction machinery
	Mass hauling
	Other transport

If the evaluation is to include the total transport distance, the client must specify this in the list of machinery and vehicles.

Other transport

The client must consider whether the list of machinery and vehicles shall be used to evaluate the sub-criterion Other transport, or whether one would rather request the supplier provide an account of their measures to reduce the use of fossil fuels.

The following documentation requirements can replace the list of machinery and vehicles:

Criterion	Documentation requirement	Guide to documentation requirement
Other transport		
Use of fossil-free vehicles for transport of materials, equipment, personnel, etc. to/from the construction site.	Supplier's description. The description shall not exceed 3,500 characters.	Weight shall be attached to measures that are relevant and related to project execution.
Use of emission-free and/or biogas vehicles for waste removal from the construction site.		
Other transport measures to be implemented to reduce local pollution and GHG-emissions in connection with the execution of this contract.		

2.1 Award criteria for procurements with an estimated value exceeding NOK 5 million, excl. VAT

The below text should be included in the request for tender, in connection with the description of the award criteria. It is important that the same scoring scale and ranking system is used for all award criteria in the same procurement (e.g. quality and environment).

A scoring scale from 0 to 10 points is used, where each sub-criterion is evaluated and assigned a point score from 0 to 10. The tender with the highest point score overall for the sub-criteria, shall be awarded a relative point score of 10 for the award criterion Environment. For the remaining tenders, the point score shall reflect relevant differences. The point score is then multiplied by the specified weighting of XX%, as specified in the award criteria.

Guidance for the use of scoring scales:

Award criterion/criteria to be used in requests for tender in construction procurements > NOK 5 million.

For procurements with an estimated value not exceeding NOK 5 million, the client can choose whether or not to include the criterion/criteria. There is also a simplified version available, that can be used for smaller procurements.

The text below should be included in the request for tender in the section describing the award criterion Environment.

Emission-free machinery and vehicles will be assigned a higher score than biogas-fuelled machinery and vehicles. In addition to vehicle technology, points are awarded for reducing mass hauling.

The client has been in dialogue with the network operator and has requested XX kW of available output for the start of construction.

The criterion, incl. description and documentation, is specified in the table below and must be included in the request for tender in its entirety.

Recommended weighting	Criterion	Documentation requirement	Guide to documentation requirement
50%	Emission-free machinery Tendered share of emission-free and/or biogas machinery to be used in fulfilment of the contract.	The supplier shall include the completed Annex XX : <i>List of machinery and vehicles</i> .	The list shall include all machinery to be used on site for project execution, incl. any machinery belonging to subcontractors. Machinery not necessary for project fulfilment shall not be included.
30%	Mass hauling Tendered share of emission-free and/or biogas vehicles for mass hauling to/from the construction site. Tender's reduction in mass hauling, based on distance (km) and quantity (tonnes).	The supplier shall include the completed Annex XX : <i>List of machinery and vehicles</i> .	The supplier shall specify the correct/approved waste disposal sites for different types of masses.
20%	Other transport Use of fossil-free vehicles for transport of materials, equipment, personnel, etc. to/from the construction site. Use of emission-free and/or biogas vehicles for waste removal from the construction site. Other transport measures to be implemented to reduce local pollution and GHG-emissions in connection with the execution of this contract.	The supplier shall include the completed Annex XX : <i>List of machinery and vehicles</i> .	Weight shall be attached to measures that are relevant and related to project execution.

Guidance: Other requirements

If innovative procurement processes, such as Best Value Procurement (BVP) and collaborative contracting, are used, the procurement process is handled in a different way. In these types of processes, the requirements must be tailored to the procurement process. Minimum requirements and contract requirements must still be applied, but the award criteria do not apply. The use of emission-free solutions must be a premise for the contract.

2.2 Simplified award criteria for procurements with an estimated value not exceeding NOK 5 million, excl. VAT (optional)

Guidance:

For procurements with an estimated value not exceeding NOK 5 million, the client can choose whether or not to include the award criterion Environment. The simplified sub-criteria below can be included in the request for tender.

Recommended weighting	Criterion	Documentation requirement	Specify the information required
50%	Emission-free machinery Tendered share of emission-free and/or biogas machinery to be used in fulfilment of the contract.	The supplier must include an overview of machinery and vehicles to be used in fulfilment of the contract.	
30%	Mass hauling Tendered share of emission-free and/or biogas vehicles for mass hauling to/from the construction site. Tender's reduction in mass hauling, based on distance (km) and quantity (tonnes).	The supplier must include an overview of the vehicles to be used in fulfilment of the contract.	
20%	Other transport Use of fossil-free vehicles for transport of materials, equipment, personnel, etc. to/from the construction site. Use of emission-free and/or biogas vehicles for waste removal from the construction site. Other transport measures to be implemented to reduce local pollution and GHG-emissions in connection with the execution of this contract.	Supplier's description. The description shall not exceed 3,500 words.	

3 Standard contract requirements: Environment

The contract requirements below must be used for all contracts where relevant:

The supplier must comply with the environmental requirements of the contract, as well as relevant environmental legislation, as amended. The supplier shall actively work to reduce the environmental impact in its fulfilment of the contract.

3.1 Environmental requirements in the contract period

The following environmental requirements apply to this contract:

1. Fossil-free construction machinery and vehicles

All machinery in use on the construction site must use fossil-free fuels. All machinery used must have CE certification. All machinery that can be registered in the Machine Register (or similar register) shall be registered before the machinery is put into use.

All vehicles used to transport mass and waste to and from the construction site must comply with Euro 6/VI standards and use fossil-free fuels.

2. Requirement for emission-free construction sites by 01/01/2025

The supplier shall actively strive to use emission-free solutions whenever possible (i.e. battery electric, plug-in electric or hydrogen) on the construction site from start of construction to completion. All machinery and equipment used on the construction site must be emission-free by 01/01/2025. Switching to emission-free machinery and equipment shall be included in the contract price and price increases are not accepted.

3. Requirement for zero-emission and biogas vehicles for mass hauling by 01/01/2025

The supplier shall actively strive to reduce emissions from mass hauling. By 01/01/2025, all vehicles used for mass hauling to/from the construction site must be zero-emission vehicles (i.e. battery electric or hydrogen) or biogas vehicles compliant with Euro 6/VI. Switching to vehicles with the above-specified fuel technologies shall be included in the contract price and price increases are not accepted.

I. General requirements for machinery and vehicles

The supplier must use the machinery and vehicle technologies and/or fuel types specified in the tender in its fulfilment of the contract. Vehicles, machinery or fuel types introduced during the contract period cannot yield a poorer score than the one awarded in the evaluation process. The introduction of new vehicles, machinery and fuel types require advance approval in writing from the client.

The supplier may apply for an exemption from requirements for unforeseen obstacles outside the supplier's control, which the supplier could not reasonably have been expected to take into consideration for the contract period or to avoid or overcome. The unavailability of equivalent replacements must be documented. Exemptions require advance approval in writing from the client.

4. Fuels

The supplier must not use biofuels based on palm oil or palm by-products. All biofuels must comply with EU sustainability criteria, cf. the Norwegian Regulations relating to the Limitation in Use of Chemicals and other Products that are Harmful to Health (Product Regulations).

The supplier shall at all times be able to present documentation of the type of fuel used in connection with fulfilment of the contract, as well as of compliance with the requirements of the above paragraph.

If the supplier works on parallel projects concurrently, the supplier must be able to document having obtained the necessary quantity of fossil-free fuels for transport activities in fulfilment of the contract with the City of Oslo for the entire contract period.

If the supplier uses biogas-fuelled vehicles and can document that 100% pure biogas is not available in the market, the supplier may use gas mixtures including natural gas. The Supplier must notify the Client in writing of such occurrences without undue delay.

5. Idling

Unfounded or unnecessary idling shall not occur on properties owned by the client.

6. Exemptions

The client may grant exemptions from all or part of the environmental requirements if the supplier can document that it is not practically possible to comply with the requirements.

Exemption applications must be made in writing and must specify which part(s) of the requirements the supplier is applying to be exempted from and why it is not possible to comply with these requirements.

The client may not deny the application without providing their reasoning.

For the clause IV. "General requirements for machinery and vehicles" a special exemption applies.

3.2 Non-compliance with environmental requirements

If the supplier fails to comply with one or more of the environmental requirements, or fails to deliver in accordance with the tender (agreed performance), the client may demand that the matter be rectified. Throughout the period of non-compliance, until rectification has been made, the client may impose a proportionate daily penalty.

The daily penalty rate per business day per non-compliance of environmental requirements shall be up to [XX]% of the contract price, however shall not be less than NOK [XX] excl. VAT per business day. The term business day refers to all days, except public holidays.

If the supplier earns economic savings from the non-compliance with environmental requirements, the client may demand a price reduction. The price reduction shall be applied in addition to the daily penalty.

In case of non-compliance with section VI. Idling, a penalty in the amount of NOK 1,000 excl. VAT per incident per vehicle and/or machine shall be imposed.

In case of material non-compliance with environmental requirements, the client may cancel the contract. In case of material non-compliance, the client may, before deciding to cancel the contract, give the supplier the opportunity to rectify the situation within a reasonable time. In case of repeated non-compliance, the client may cancel the contract even if the supplier rectifies the issue.