

CONFERENCE

POWERFUL AUTOMATED, DIGITAL and VERIFIED SOLUTIONS
for SUSTAINABLE ROADS and HIGHWAYS



LCA and Green Public Procurement in Italy

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Topics

1. LCA within green public procurement
2. LCA and national Law on public procurement
3. Dissemination activities for Pas
4. LCA for businesses

Green Public Procurement in Italy

Legislative decree 2023, n. 36 “**Public contracts code**”, article n. 57 (Social clauses and energy and environmental sustainability criteria):

1. **Social clauses** to ensure workers’ employment stability, application of the collective labor agreements pertinent with the object of the tender also for sub-contractors are **mandatory**;
2. **Technical specifications** defined by the Ministry for the environment in the **Minimum environmental criteria (MEC)** are **mandatory**
3. **Contract clauses** defined in **MEC** are **mandatory**
4. **Award criteria** defined in **MEC** must be taken into account where the tender is awarded with the best quality-price ratio.

The structure of the MEC

Selection of candidates: qualification requirements to prove professional and technical capacity

Technical specifications: mandatory specific characteristics of materials, products, works.

Contract clauses: indications on how to execute the contract in a more sustainable way.

Award criteria: requirements to which a technical score is to be attributed for awarding the contract according to the best value for money approach

Why Minimum?

MEC are basic requirements, going beyond legal requirements, that qualify contracts as "environmentally preferable" (green) in relation to the market offer.

They are also called "*minimum*" because they do not prejudice the ability of contracting authorities to introduce more "challenging" environmental requirements.

Technical references of criteria

- core and comprehensive criteria of the European Commission GPP toolkit;
- criteria established by environmental labelling schemes (EU Ecolabel);
- criteria defined within a life cycle assessment approach (EPD, Made green in Italy etc.);
- single-criteria labels by which verifying specific environmental requirements (recycled content,

Verification methods

Report of an accredited laboratory

ISO 17025 *General requirements for the competence of testing and calibration laboratories*

Conformity's certificate to standards or labels

ISO/IEC 17065 *Conformity assessment - Requirements for bodies certifying products, processes and services*

Ecolabel, Nordic Swan, EPD, TCO Certified, FSC etc.

ISO/IEC 17021 *Conformity assessment - Requirements for bodies providing audit and certification of management systems -*

EMAS, ISO14001, ISO 9001 etc.

ISO/IEC 17024 *Conformity assessment - General requirements for bodies operating certification of persons*

Inspection reports

ISO/IEC 17020 *Conformity assessment - Requirements for the operation of various types of bodies performing inspection*

Producer's technical report

Aspects not covered by standards. Contracting authority needs to specify what information must be included and has to be able to evaluate it.

→ contracting authority has to be highly trained

MEC in force

1. Street furniture
2. Adult diapers and incontinence products
3. Work footwear and leather products
4. Printing paper
5. Printer cartridges
6. Buildings construction and maintenance
7. Printers and printing services
8. Management of public green areas
9. Road transport vehicles
10. Public lighting service and works
11. Building heating and lighting services
12. Textiles renting and cleaning
13. Food services
14. Cleaning and disinfection services
15. Fabrics and textiles
16. Urban waste management service
17. Supply and rental of furniture
18. Events' organization
19. Street furniture

Work in progress

1. **Road works (new)**
2. Computers and servers (update)
3. Vending machines (new)
4. Public transport's services (new)

*Roughly 30.000
procedures and 20 billion
euro*

MEC on Road works

Road design

2.3	SPECIFICHE TECNICHE PROGETTUALI PER L’AFFIDAMENTO DEL SERVIZIO DI PROGETTAZIONE DI INFRASTRUTTURE STRADALI...
2.3.1	<i>Sostenibilità ambientale dell’opera</i>
2.3.2	<i>Efficienza funzionale e durata della pavimentazione</i>
2.3.3	<i>Temperatura di posa della pavimentazione con conglomerato bituminoso</i>
2.3.4	<i>Emissione acustica delle pavimentazioni</i>
2.3.5	<i>Piano di manutenzione dell’opera</i>
2.3.6	<i>Disassemblaggio e fine vita</i>
2.3.7	<i>Rapporto sullo stato dell’ambiente</i>
2.3.8	<i>Riutilizzo del fresato</i>
2.4	SPECIFICHE TECNICHE PER I MATERIALI DA COSTRUZIONE
2.4.1	<i>Materia riciclata, recuperata o sottoprodotti nei prodotti da costruzione per la realizzazione dell’opera</i> ¹⁹
2.4.2	<i>Calcestruzzi confezionati in cantiere e preconfezionati</i>
2.4.3	<i>Prodotti prefabbricati in calcestruzzo, in calcestruzzo a getto autoclavato e in calcestruzzo vibro compresso</i>
2.4.4	<i>Acciaio</i>
2.4.5	<i>Prodotti legnosi</i>
2.4.6	<i>Murature in pietrame e miste</i>
2.4.7	<i>Barriere antirumore</i>
2.4.8	<i>Sistemi di drenaggio lineare</i>
2.5	SPECIFICHE TECNICHE PROGETTUALI RELATIVE AL CANTIERE
2.5.1	<i>Prestazioni ambientali del cantiere</i>
2.5.2	<i>Demolizione selettiva, recupero e riciclo</i>
2.5.3	<i>Conservazione dello strato superficiale del terreno</i>
2.5.4	<i>Rinterri e riempimenti</i>
2.6	CRITERI PREMIANTI PER L’AFFIDAMENTO DEL SERVIZIO DI PROGETTAZIONE.....
2.6.1	<i>Competenza tecnica dei progettisti</i>
2.6.2	<i>Metodologie di ottimizzazione delle soluzioni progettuali per la sostenibilità (LCA e LCC)</i>
2.6.3	<i>Progettazione in BIM</i>
2.6.4	<i>Mitigazione della congestione del traffico in fase di cantiere</i>
2.6.5	<i>Rigenerazione</i>
2.6.6	<i>Valutazione dei rischi non finanziari o ESG (Environment, Social, Governance)</i>

draft

MEC on Road works

Road construction and maintenance

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3.2.7	<i>Vita utile della pavimentazione</i>	3
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LCA in public contracting

Requirements of the technical-economic feasibility project (Public contracts code):

- ✓ Has to consider costs that occur along the whole life cycle, including disposal
- ✓ Sustainability study has to include: evaluation of the carbon footprint; a life cycle assessment from a circular economy perspective, with particular reference to construction materials to reduce impacts in terms of waste generated

Dissemination of **LCA tools and methodologies in procurement procedures:** Mettiamoci in RIGA project (Ceramic hard floor coverings, Integrated PV systems, Thermal insulation for buildings, Cleaning services).

LCA for industry and suppliers

Made Green in Italy label

Based on the PEF methodology (Product Environmental Footprint)
as defined by the Commission Recommendation
2013/179/CE.

Ministry manages the label according to a specific regulation
(Decree n. 56/2018).



How MGI works

PROPOSAL, ELABORATION, APPROVAL
OF PCR



*RCP: methodology to evaluate the environmental footprint of
a specific product category*



SUBSCRIPTION TO THE SCHEME



PCRs Adopted

- ✓ Agribusiness: Grana Padano, Provolone Valpadana, vinegar, pasta, swine and bovine fresh meat, ice cream.
- ✓ Industrial sector: PE multipurpose bags, industrial textiles cleaning, carded wool, wood packaging, steel castings, geotextiles, raw tobacco, cast iron, PE big cases, PE pipes for clear water.

17 PCR adopted

PCRs in progress

Agribusiness: Asiago DOP, pears, kiwi, olive oil, raw ham.

Industrial sector: Settore industriale: Auxiliaries and chemical products for leather processing, machines for industrial floor cleaning, compound feed, synthetic yarn fabrics, PE pipes for fluids alfaalfa forage, corrugated cardboard boxes.

For more information

GPP

<https://gpp.mite.gov.it/>

Made green in Italy

<https://www.mase.gov.it/pagina/lo-schema-nazionale-made-green-italy>

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you!**

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