

## Public Procurement, Innovation and Sustainability

### WHAT ABOUT?

*‘Public procurement refers to the process by which public authorities, such as government departments or local authorities, purchase work, goods or services from companies’.*  
([https://single-market-economy.ec.europa.eu/single-market/public-procurement\\_en](https://single-market-economy.ec.europa.eu/single-market/public-procurement_en))

**Innovation** is the process of renewing and updating a domain, a product, or a service by introducing new techniques or generating effective concepts to produce new value. The creation of value is a defining feature of innovation.

*‘The European Commission aims to improve public procurement practices, promote the demand of innovative goods, services and works in Europe, and foster the uptake of innovation in the EU. This will allow the integration of public demand into the innovation ecosystem and foster economic recovery.’*

***Innovation procurement** includes: the development of innovative solutions through the procurement of research and development services, the procurement of innovative solutions that are not yet available or do not exist on the market, the procurement of innovative solutions that do exist, but are not yet widely available on the market’.*

([https://single-market-economy.ec.europa.eu/single-market/public-procurement/strategic-procurement/innovation-procurement\\_en](https://single-market-economy.ec.europa.eu/single-market/public-procurement/strategic-procurement/innovation-procurement_en))

**Sustainability** means fulfilling the needs of current generations without compromising the needs of future generations, while maintaining a balance of economic growth, environmental care, and social well-being.

*‘Sustainable Public Procurement (SPP) is a process by which public authorities seek to achieve the appropriate balance between the three pillars of sustainable development - economic, social and environmental - when procuring goods, services or works at all stages of the project’.*

([https://ec.europa.eu/environment/gpp/versus\\_en.htm](https://ec.europa.eu/environment/gpp/versus_en.htm))

Given today's fast-changing environment, the European Commission considered rethinking the approach to purchasing, professionalizing public buyers, cutting red tape, and capitalizing on the benefits of the digital revolution to create a more efficient, effective, citizen-oriented, and business-friendly economy. This comprises measures aiming at making the economy more creative, environmentally friendly, and socially inclusive.

Green Public Procurement (GPP) is defined in the Communication (COM (2008) 400) "Public procurement for a better environment" as "a process whereby public authorities seek to procure goods, services and works with a reduced environmental impact throughout their life cycle when compared to goods, services and works with the same primary function that would otherwise be procured." ([https://ec.europa.eu/environment/gpp/what\\_en.htm](https://ec.europa.eu/environment/gpp/what_en.htm))

In the EU, there are over 250 000 public authorities that annually spend over 14% of the GDP, or about €2 trillion, on goods, services, and projects. Public bodies are the main purchasers in several

industries, including energy, transportation, waste management, social protection, and the delivery of health or educational services.

The public sector may utilize procurement to foster economic development, increase employment, encourage investment, and foster a more creative, energy-efficient, and socially inclusive economy. Modern, effective, and well-managed procurement is essential to providing high-quality public services.

An efficiency increase of even 1% might result in annual savings of €20 billion through improved public procurement.

([https://defence-industry-space.ec.europa.eu/funding-and-grants/public-procurement\\_en](https://defence-industry-space.ec.europa.eu/funding-and-grants/public-procurement_en))

## Regulatory framework

- **Directive 2014/23/EU on the award of concession contracts**  
2014\_European Parliament and the Council\_Directive 2014.23.EU on the award of concession contracts  
<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32014L0023&rid=2>
- **Directive 2014/24/EU on public procurement**  
2014\_European Parliament and the Council\_Directive 2014.24.EU on public procurement  
<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:02014L0024-20180101&from=EN>
- **Directive 2014/25/EU on procurement by entities operating in the water, energy, transport and postal services sectors**  
2014\_European Parliament and the Council\_Directive 2014.25.EU on procurement by entities operating in the water-energy-transport and postal services sectors  
<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:02014L0025-20180101&from=EN>
- **GPP Good Practice** [https://ec.europa.eu/environment/gpp/case\\_group\\_en.htm](https://ec.europa.eu/environment/gpp/case_group_en.htm)

Since January 2010, the European Commission has been promoting good practice experiences on GPP to illustrate how public authorities in Europe have successfully 'greened' a public tender or procurement process. These include the use of life-cycle costing (LCC), circular economy principles, approaches fostering sustainable innovation, among others.

In terms of GPP, the following sections of the directives are worth drawing attention to:

1. Defining the requirements of a contract: *Article 42* of **Directive 2014/24/EU**; and *Article 60* of **Directive 2014/25/EU**.
  2. Use of labels: *Article 43* of **Directive 2014/24/EU** and *Article 61* of **Directive 2014/25/EU**.
  3. Lowest price award and life-cycle costing (LCC): *Article 67* of **Directive 2014/24/EU** and *Article 82* of **Directive 2014/25/EU**.
  4. Innovation partnerships: *Article 31* of **Directive 2014/24/EU**.
  5. Consulting the market: *Article 40* of **Directive 2014/24/EU**.
- **Sustainable Development Goals:** Sustainable development is a core principle of the Treaty on European Union and a priority objective for the Eu's internal and external policies. The United Nations 2030 Agenda includes *17 Sustainable Development Goals (SDGs)*. The SDG Policy Mapping tool shows how EU policies address the Sustainable

Development Goals (SDGs). The mapping helps better understand how EU policies relate to the SDG framework, by mapping policy documents with the SDGs and targets through specific keywords. It can thereby strengthen EU capacity to design, implement and monitor coherent and integrated policies for sustainable development.

*‘These new rules simplify public procurement procedures and make them more flexible. This will benefit public purchasers and businesses, particularly SMEs’.*

[https://single-market-economy.ec.europa.eu/single-market/public-procurement/digital-procurement/european-single-procurement-document-and-ecertis\\_en](https://single-market-economy.ec.europa.eu/single-market/public-procurement/digital-procurement/european-single-procurement-document-and-ecertis_en)

## **Background documents on the 2014 public procurement reform**

[https://single-market-economy.ec.europa.eu/single-market/public-procurement/legal-rules-and-implementation\\_en](https://single-market-economy.ec.europa.eu/single-market/public-procurement/legal-rules-and-implementation_en)

- Press materials
  1. [https://ec.europa.eu/growth/news/new-eu-public-procurement-rules-less-bureaucracy-higher-efficiency-2015-11-19\\_en](https://ec.europa.eu/growth/news/new-eu-public-procurement-rules-less-bureaucracy-higher-efficiency-2015-11-19_en)
  2. [http://www.consilium.europa.eu/uedocs/cms\\_data/docs/pressdata/en/intm/140975.pdf](http://www.consilium.europa.eu/uedocs/cms_data/docs/pressdata/en/intm/140975.pdf)
  3. <http://www.europarl.europa.eu/news/en/news-room/content/20140110IPR32386/html/New-EU-procurement-rules-to-ensure-better-quality-and-value-for-money>
  4. [http://europa.eu/rapid/press-release MEMO-14-18\\_en.htm?locale=en](http://europa.eu/rapid/press-release_MEMO-14-18_en.htm?locale=en)
  5. [http://europa.eu/rapid/press-release MEMO-14-20\\_en.htm?locale=en](http://europa.eu/rapid/press-release MEMO-14-20_en.htm?locale=en)
  6. [http://europa.eu/rapid/press-release MEMO-14-19\\_en.htm?locale=en](http://europa.eu/rapid/press-release MEMO-14-19_en.htm?locale=en)
- Legislative acts
  1. <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32014L0024&locale=en>
  2. <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32014L0025&locale=en>
  3. <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32014L0023&locale=en>
  4. [https://single-market-economy.ec.europa.eu/single-market/public-procurement/legal-rules-and-implementation/concession-contracts\\_en](https://single-market-economy.ec.europa.eu/single-market/public-procurement/legal-rules-and-implementation/concession-contracts_en)
  5. <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex:52011SC1585&locale=en>
- 2014 Factsheets on the review of public procurement:
  1. Innovation  
<https://ec.europa.eu/docsroom/documents/15527/attachments/1/translations/>
  2. Environmental aspects  
<https://ec.europa.eu/docsroom/documents/15509/attachments/1/translations/>
  3. Social aspects of the new rules  
<https://ec.europa.eu/docsroom/documents/14559/attachments/1/translations>
  4. Computerisation of public procurement  
<https://ec.europa.eu/docsroom/documents/14484/attachments/1/translations>

- 2023\_The Commission\_Recommendation on National Support Programmes for Sustainable Urban Mobility Planning  
<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32023H0550>
- 2021\_European Parliament and The Council\_Decision on the Strategic Innovation Agenda of EIT 2021-2027  
<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32021D0820&qid=1679053730573>
- 2021\_European Parliament and The Council\_Regulation on the EIT  
<https://eur-lex.europa.eu/legal-content/AUTO/?uri=CELEX:32021R0819&qid=1679053730573&rid=4>
- 2021\_European Parliament and The Council\_Regulation on the establishment of a framework to facilitate sustainable investment  
<https://eur-lex.europa.eu/legal-content/AUTO/?uri=CELEX:32020R0852&qid=1679062207000&rid=2>  
<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52021AE1986>
- 2021\_European Commission\_Guidance on Innovation Procurement  
<https://ec.europa.eu/docsroom/documents/45975>
- 2019\_The Commission\_The European Green Deal  
[https://eur-lex.europa.eu/resource.html?uri=cellar:b828d165-1c22-11ea-8c1f-01aa75ed71a1.0002.02/DOC\\_1&format=PDF](https://eur-lex.europa.eu/resource.html?uri=cellar:b828d165-1c22-11ea-8c1f-01aa75ed71a1.0002.02/DOC_1&format=PDF)
- 2018\_ECR\_Strengthening Innovation in Europe Regions-Strategies for resilient, inclusive and sustainable growth  
<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52017IR4757>
- 2017\_European Parliament and The Council\_Decision of the European Parliament and The Council on the participation of EU in PRIMA  
<https://eur-lex.europa.eu/legal-content/AUTO/?uri=CELEX:32017D1324&qid=1679053730573&rid=6>
- 2017\_European Commission\_Making Public Procurement work in and for Europe  
<https://ec.europa.eu/docsroom/documents/25612>
- 2016\_European Commission\_EU Public Procurement reform Less bureaucracy, higher efficiency  
<https://ec.europa.eu/docsroom/documents/16412/attachments/1/translations>
- 2011\_European Commission\_Buying social-A guide to taking into account of social considerations in public procurement  
<https://op.europa.eu/en/publication-detail/-/publication/cb70c481-0e29-4040-9be2-c408cddf081f>

## **The Italian Public Procurement Code**

- 2022\_Senato della Repubblica-Camera dei deputati\_Codice dei contratti pubblici  
<http://documenti.camera.it/leg19/dossier/pdf/Am0006.pdf>
- DECRETO LEGISLATIVO 31 marzo 2023, n. 36  
<https://www.gazzettaufficiale.it/eli/gu/2023/04/13/87/so/14/sg/pdf>

## Research papers and publications

### 1. INNOVATION in Public Procurement

#### SSRN:

- 2021\_Naude W.-Dimitri N.\_Public Procurement and Innovation for Human-Centered AI  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3762891](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3762891)
- 2020\_Dr Sanchez-Graells Albert\_EU Public Procurement Policy and the Fourth Industrial Revolution-Pushing and Pulling as One  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3440554](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3440554)
- 2018\_Czarnitzki D.-Hunermund P.-Moshgbar N.\_Public Procurement as Policy Instrument for Innovation  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3106609](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3106609)
- 2017\_Racolta B.-Dragos D.C.\_Comparing Legal Instruments for R&D&I-State Aid and Public Procurement  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3143447](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3143447)
- 2017\_Iossa E.-Biagi F.-Valbonesi P.\_Pre-commercial Procurement, Procurement of Innovative Solutions and Innovation Partnerships in the EU-Rationale and Strategy  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2850892](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2850892)
- 2017\_Dr Graells A.S.\_Against the Grain Member State interests and EU procurement law  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3022053](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3022053)
- 2017\_Andhov Marta\_Innovation Partnership in the New Public Procurement Regime – A Shift of Focus from Procedural to Contractual Issues  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2910911](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2910911)
- 2016\_Dr Sanchez-Graells Albert\_Collaborative Cross-border Procurement in the EU  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2734123](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2734123)
- 2015\_Handler Heinz\_Strategic Public Procurement-An Overview  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2695546](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2695546)
- 2015\_Dr Graells A.S.\_Truly competitive public procurement as a Europe 2020 lever-what role for the principle of competition in moderating horizontal policies  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2638466](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2638466)
- 2015\_Decarolis F.-Girogiantonio C.\_Public Procurement of Healthcare in Europe-The Case of Medical Devices  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3476523](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3476523)
- 2015\_Archustegui Ignacio Herrera\_Centralizing public procurement and Competitiveness in Directive 2014.24  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2633445](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2633445)
- 2014\_Telles T.-Butler R.A.\_Public Procurement Award Procedures in Directive 2014.24.EU  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2443438](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2443438)
- 2014\_Schafer D.-Stephan A.-Fuhrmeister S.\_The Impact of Public Procurement on Financial Barriers to Green Innovation-Evidence from the European Community Innovation Survey  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=4203702](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4203702)

- 2014\_Rolfstam Max\_Public Procurement as a means to stimulate innovation for a better world-A matter of knowledge management  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2409631](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2409631)

### **Research gate:**

- 2023\_Andrews M.R.-Long P.A.-Ahlberg M.\_A European arena for joint innovation in healthcare-Platform for Innovation of Procurement and Procurement of Innovation (PiPPi)  
[https://www.researchgate.net/publication/367058037\\_A\\_European\\_arena\\_for\\_joint\\_innovation\\_in\\_healthcare\\_The\\_Platform\\_for\\_Innovation\\_of\\_Procurement\\_and\\_Procurement\\_of\\_Innovation\\_PiPPi](https://www.researchgate.net/publication/367058037_A_European_arena_for_joint_innovation_in_healthcare_The_Platform_for_Innovation_of_Procurement_and_Procurement_of_Innovation_PiPPi)
- 2022\_Boykin E.A.\_Public Procurement and European Union integration a systematic review  
[https://www.researchgate.net/publication/362662922\\_Public\\_procurement\\_and\\_European\\_Union\\_integration\\_a\\_systematic\\_review](https://www.researchgate.net/publication/362662922_Public_procurement_and_European_Union_integration_a_systematic_review)
- 2022\_Milenkovic M.-Rasic M.-Jovancevic R.\_Public Procurement of Innovative and Technological Solutions in the EU  
[https://www.researchgate.net/publication/361312341\\_Public\\_Procurement\\_of\\_Innovative\\_and\\_Technological\\_Solutions\\_in\\_the\\_EU](https://www.researchgate.net/publication/361312341_Public_Procurement_of_Innovative_and_Technological_Solutions_in_the_EU)
- 2021\_Demircioglu M.A.-Vivona R.\_Positioning public procurement as a procedural tool for innovation-an empirical study  
[https://www.researchgate.net/publication/353288520\\_Positioning\\_public\\_procurement\\_as\\_a\\_procedural\\_tool\\_for\\_innovation\\_an\\_empirical\\_study](https://www.researchgate.net/publication/353288520_Positioning_public_procurement_as_a_procedural_tool_for_innovation_an_empirical_study)
- 2021\_Caranta R.-Gomes P.C.\_Public Procurement and Innovation  
[https://www.researchgate.net/publication/353344034\\_Public\\_procurement\\_and\\_innovation](https://www.researchgate.net/publication/353344034_Public_procurement_and_innovation)
- 2021\_Hammer M.-Vin Deimling C.A.-Ebig M.-Schmid O.\_Innovation intermediaries in a public procurement context-Developing a conceptual framework  
[https://www.researchgate.net/publication/360066704\\_Innovation\\_intermediaries\\_in\\_a\\_public\\_procurement\\_context\\_Developing\\_a\\_conceptual\\_framework](https://www.researchgate.net/publication/360066704_Innovation_intermediaries_in_a_public_procurement_context_Developing_a_conceptual_framework)
- 2019\_Bobowski S.-Gola J.\_E-procurement in the European Union  
[https://www.researchgate.net/publication/337654663\\_E-Procurement\\_in\\_the\\_European\\_Union](https://www.researchgate.net/publication/337654663_E-Procurement_in_the_European_Union)
- 2019\_Lenderink B.-Halman J.-Voordijk H.\_Innovation and public procurement from fragmentation  
[https://www.researchgate.net/publication/337889111\\_Innovation\\_and\\_public\\_procurement\\_from\\_fragmentation\\_to\\_synthesis\\_on\\_concepts\\_rationalesand\\_approaches](https://www.researchgate.net/publication/337889111_Innovation_and_public_procurement_from_fragmentation_to_synthesis_on_concepts_rationalesand_approaches)
- 2019\_Bleda M.-Chicot J.\_The role of public procurement in the formation of markets for innovation  
[https://www.researchgate.net/publication/331283478\\_The\\_role\\_of\\_public\\_procurement\\_in\\_the\\_formation\\_of\\_markets\\_for\\_innovation](https://www.researchgate.net/publication/331283478_The_role_of_public_procurement_in_the_formation_of_markets_for_innovation)



## 2. SUSTAINABILITY in Public Procurement

### SSRN:

- 2020\_Caranta R.-Andhov M.\_Sustainability through public procurement-the way forward-Reform Proposals  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3559393](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3559393)
- 2020\_Andrecka Marta\_Sustainable public procurement under framework agreements  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2926616](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2926616)
- 2019\_Sjafjell B.-Mahonen J.-Taylor M.\_Supporting the Transition to Sustainability-SMART Reform Proposals  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3503310](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3503310)
- 2019\_Gerbrandy A.-Janssen W.A.-Thomsin L.\_Shaping the Social Market Economy After the Lisbon Treaty-How Social is Public Economic Law  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3474402](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3474402)
- 2018\_Sjafjell Beate\_Sustainable Public Procurement as a Driver for Sustainable Companies-The interface between Company Law and Public Procurement Law  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3294907](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3294907)
- 2017\_Wiesbrock A.-Sjafjell B.-Sustainable Public Procurement under EU Law- Why should public procurement be about sustainability?  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2954499](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2954499)
- 2017\_Telles P.-Olykke G.S.-Sustainable Procurement A Compliance Perspective of EU Public Procurement Law  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3042673](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3042673)
- 2017\_Diaz J.M.-The Procedural Treatment of Conflicts of Interest in EU Public Procurement  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3078302](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3078302)
- 2015\_Handler Heinz\_Strategic Public Procurement An Overview  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2695546](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2695546)
- 2014\_Dragos D.C.-Neamtu B.\_Sustainable Public Procurement in the EU-Experiences and Prospects  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2488047](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2488047)
- 2014\_Amman Markus\_Driving Sustainable Supply Chain Management in the Public Sector-The importance of Public Procurement in the EU  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2955084](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2955084)

### Research gate:

- 2023\_Orfanidou V.-Rachaniotis N.\_Tsoulfas G.-Chondrokoukis G.P.\_Life Cycle Costing Implementation in Green Public Procurement-A Case Study from the Greek Public Sector  
[https://www.researchgate.net/publication/368327614\\_Life\\_Cycle\\_Costing\\_Implementation\\_in\\_Green\\_Public\\_Procurement\\_A\\_Case\\_Study\\_from\\_the\\_Greek\\_Public\\_Sector](https://www.researchgate.net/publication/368327614_Life_Cycle_Costing_Implementation_in_Green_Public_Procurement_A_Case_Study_from_the_Greek_Public_Sector)
- 2022\_Sapir A.-Schraepen T.-Tagliapietra S.\_Green Public Procurement-A Neglected Tool in the European Green Deal Toolbox



<https://www.researchgate.net/publication/361142159> Green Public Procurement A Neglected Tool in the European Green Deal Toolbox

- 2022\_Fregonara E.-Ferrando D.G.-Tulliani J.M\_ Sustainable Public Procurement in the Building Construction Sector  
<https://www.researchgate.net/publication/363624254> Sustainable Public Procurement in the Building Construction Sector
- 2022\_Manta O.P.-Mirela P.-Hysa E.-Public Procurement, a Tool for Achieving the Goals of Sustainable Development  
<https://www.researchgate.net/search.Search.html?query=innovation+in+public+procurement+European+Union&type=publication&subfilter%5BstartYear%5D=2019&subfilter%5Bfulltext%5D=ft&limit=10&offset=50>
- 2022\_Brataas G.-Hanssen G.K.-Qiu X.-Graeslie L.S.\_Requirements Engineering in the Market Dialogue of Public Procurement: A Case Study of an Innovation Partnership for Medical Technology  
<https://www.researchgate.net/publication/359097995> Requirements Engineering in the Market Dialogue Phase of Public Procurement A Case Study of an Innovation Partnership for Medical Technology
- 2022\_Andabaka A.-Sertic M.B.\_Promoting Sustainable Development via Public Procurement-Is the European Union leading by Example  
<https://www.researchgate.net/publication/350767287> PROMOTING SUSTAINABLE DEVELOPMENT VIA PUBLIC PROCUREMENT IS THE EUROPEAN UNION LEADING BY EXAMPLE
- 2022\_Fazekas M.-Ziolkowska B.-Regos N.\_Public Procurement-Saving and Greening  
<https://www.researchgate.net/publication/360963154> Public Procurement Saving and Greening
- 2022\_Schotanus Fredo\_A better world starts with public procurement  
<https://www.researchgate.net/publication/361771139> A better world starts with public procurement
- 2021\_Tatrai T.-Kovacs O.D\_European Green Deal-the way to Circular Public Procurement  
<https://www.researchgate.net/publication/354082080> European Green Deal - the way to Circular Public Procurement
- 2021\_Olsson D.-Ojehag Pettersson A.-Granberg M.-Building a Sustainable Society-Construction, Public Procurement Policy and Best Practice in the European Union  
<https://www.researchgate.net/publication/352759717> Building a Sustainable Society Construction Public Procurement Policy and %27Best Practice%27 in the European Union
- 2021\_Halonen K.M.\_Is public procurement fit for reaching sustainability goals? A law and economics approach to green public procurement  
<https://www.researchgate.net/publication/352224919> Is public procurement fit for reaching sustainability goals A law and economics approach to green public procurement

- 2021\_Bunciu R.S.-Dan R.S.-Developments in the EU's Effort to Enact Good Governance through Public Procurement  
[https://www.researchgate.net/publication/359369097\\_Developments\\_in\\_the\\_European\\_Union%27s\\_Effort\\_to\\_Enact\\_Good\\_Governance\\_through\\_Public\\_Procurement\\_Law](https://www.researchgate.net/publication/359369097_Developments_in_the_European_Union%27s_Effort_to_Enact_Good_Governance_through_Public_Procurement_Law)
- 2019\_Babica V.-Sceulovs D.\_Public Procurement of Innovation Selection of the Sustainable Alternative  
[https://www.researchgate.net/publication/345352993\\_Public\\_Procurement\\_of\\_Innovation\\_Selection\\_of\\_the\\_Sustainable\\_Alternative](https://www.researchgate.net/publication/345352993_Public_Procurement_of_Innovation_Selection_of_the_Sustainable_Alternative)

## 1) Reports

- 2021\_European Commission\_Implementation and best practices of national procurement policies in the Internal  
<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=COM:2021:245:FIN&rid=3>
- 2021\_European Commission\_Report on negotiations for access of Union undertakings to the markets of third countries in fields covered by Directive 2014.25.EU  
<https://ec.europa.eu/docsroom/documents/44929>
- 2019\_The Commission and The Council\_Proposal for a Joint Employment Report on the Annual Sustainable Growth Strategy 2020  
[https://eur-lex.europa.eu/resource.html?uri=cellar:3951d3a7-2177-11ea-95ab-01aa75ed71a1.0003.02/DOC\\_1&format=PDF](https://eur-lex.europa.eu/resource.html?uri=cellar:3951d3a7-2177-11ea-95ab-01aa75ed71a1.0003.02/DOC_1&format=PDF)
- 2016\_EESC-The Commission-The EP-The Council\_Implementation of the strategy for international cooperation in research and innovation  
<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52016DC0657>

## 2) EU case laws

### GPP-Green Public Procurement

[https://ec.europa.eu/environment/gpp/case\\_group\\_en.htm](https://ec.europa.eu/environment/gpp/case_group_en.htm)

#### -Austria

- 2020\_City of Vienna\_Procuring healthy and sustainable vegetables for Vienna's nursing homes
- 2018\_Federal Procurement Agency\_Austrian framework for alternatively powered vehicles
- 2016\_Department of Information and Communications Technologies\_Energy Efficient Data Centre
- 2016\_Federal Procurement Agency\_Procurement of energy and resource efficient desktop computers
- 2016\_Federal Procurement Agency\_Procurement of wastewater recycling system for the Austrian Mint
- 2015\_Okokauf Wien\_Vienna's Sustainable Procurement Programme

#### -Belgium

- 2022\_European Commission\_Promoting sustainable development while purchasing office chairs
- 2021\_Government of Flanders\_Encouraging more sustainable office supplies in Flanders
- 2021\_Government of Flanders\_Kantoor2023-a sustainable and circular building in Brussels
- 2019\_Mechelen\_Procuring energy-efficient indoor lighting-as-a-service
- 2019\_Ottignies\_Preparation and delivery of healthy and sustainable school meals

#### -Bulgaria

- 2021\_Municipality of Gabrovo\_Upgrading streetlights using an Energy Service Company model
- 2017\_Burgas City\_Building a green Flora Exposition Centre in Burgas

#### -Croatia

- 2020\_Koprivnica\_Refurbishing an old Kindergarten building with minimal environmental impact
- 2017\_Burgas City\_Building a green Flora Exposition Centre in Burgas

#### -Cyprus

- 2015\_Environmental Policy Office\_Cyprus University of Technology

#### -Czech Republic

- 2022\_Ministry of Labour and Social Affairs\_Building net-zero energy innovation through procurement in the construction

#### -Denmark

- 2020\_Municipality of Frederiksberg\_Reducing urban flood risk through innovation procurement
- 2019\_Hjorring Municipality\_Increasing brick recovery for reuse when procuring demolition services
- 2019\_Odense Municipality\_Supplying sustainable garments for health professionals
- 2018\_Municipality of Aalborg\_Circular procurement for a sustainable learning environment
- 2016\_Municipality of Copenhagen\_Strategy and approach to SPP in the Municipality of Copenhagen

#### -Estonia

- 2022\_RIK Estonia\_Sustainable purchase and rental of desktop computers and monitors

#### -Finland

- 2023\_City of Tampere\_Introducing circular economy procurement to road construction in Tampere
- 2021\_Urban Environment Division\_Procurement of low-carbon residential buildings using life-cycle assessment criteria
- 2019\_City of Lappeenranta\_An electric vehicle car sharing service for city workers and citizens
- 2019\_Helsinki Service Centre\_Reducing food transport emissions through route optimisation and more efficient vehicles

- 2016\_Helsinki Council\_Framework contract for energy efficient IT equipment and services
- 2017\_City of Vaasa\_Recovering biogas to power public transport
- 2017\_Hyvinkaa Municipality\_Building a sustainable pre-school using ecolabel standards
- 2014>Toholampi Energy\_An innovative, efficient combined heat and power (CHP) plant
- 2014\_Vantaa\_An ESCO used to cut energy use in municipal buildings in Vantaa

#### -France

- 2022\_Dinan Agglomeration\_Sustainable cleaning services and associated services
- 2022\_SERS\_Adopting circular economy principles-Setting reclamation, targets in a redevelopment tender
- 2017\_Nantes Metropolis\_Promoting responsible purchasing in Nantes

#### -Germany

- 2020\_Geestland\_Saving energy through the purchase of LED street lights
- 2017\_Berlin Senate Department for Environment\_Using recycled concrete in the construction of new buildings
- 2016\_Procurement Agency of the Federal Ministry of the Interior\_Framework contract to purchase thin client computer systems
- 2016\_Rural District of Enzkreis\_Procuring innovative energy efficiency solutions for educational buildings
- 2015\_Municipality of Erlangen\_Joint Procurement of 100% recycled copying paper
- 2015\_City of Frankfurt\_Guidelines for economic buildings
- 2013\_State of Brandenburg\_Procurement of 100% green electricity in Brandenburg

#### -Ireland

- 2023\_Irish Prison Service\_Social and environmental criteria in the Irish Prison Service's mattress recycling initiative
- 2014\_Tipperary Energy Agency\_Installation of solar photovoltaic panels and associated works in public buildings in Co.Tipperary

#### -Italy

- 2023\_Lazio Region\_Oxygen project-planting 6 million trees, one tree for each inhabitant of Lazio Region
- 2022\_Region Tuscany and ARPAT\_Procuring sustainable computers, printers and related services
- 2021\_University of Cagliari\_Vending machines for food and beverages
- 2021\_Veneto\_Networking for a common goal-a winning strategy to spread the GPP principles and effectively contribute to SD
- 2020\_Framework contract for sustainable office materials based on -Cradle to Cradle-principles
- 2015\_Mulas Luisa\_Sardinia's Regional Action Plan for GPP
- 2015\_Region of Emilia-Romagna\_Collection, transportation and disposal of hazardous and non-hazardous hospital waste
- 2014\_Consip ICT equipment and management services

- 2014\_Turin\_Monitoring low carbon, sustainable catering services

#### -Latvia

- 2021\_Smiltene County\_Piloting sustainable school furniture procurement in Latvia

#### -Malta

- 2021\_Environment and Resources Authority Malta\_Environmentally and socially friendly cleaning services

#### -Norway

- 2022\_City of Stavanger\_Procuring medical consumables by tackling social considerations along the supply chain
- 2020\_Municipality of Orkland\_Highly energy efficient health centre with swimming and sport facilities
- 2017\_Municipality of Sarpsborg\_Procuring climate-friendly waste collection and treatment services
- 2016\_Municipal Undertaking for Social Service buildings\_Reducing emissions produced through construction

#### -Poland

- 2021\_Municipality of Sulejow\_Poland's first swimming pool meeting passive energy use standards
- 2020\_Ostrow Wielkopolski\_Procurement of electric buses and charging system

#### -Portugal

- 2020\_LIPOR\_Framework contract for the supply of cleaning products and services in Greater Porto

#### -Romania

- 2021\_City of Oradea\_Procurement of hybrid electric buses
- 2018\_GNM\_Introducing green criteria for contracting cleaning services in Romania

#### -Slovak Republic

- 2022\_Ministry of Health-Slovak Republic\_Hospital demolition with 100% recycling of materials
- 2021\_Public Procurement Department South Moravian Region\_Combining procurement models for green and healthy buildings

#### -Slovenia

- 2020\_Ministry of Public Administration\_National framework contract for paper with environmental requirements

#### -Spain

- 2022\_Municipality of Rincon de la Victoria\_Reaching social and environmental objectives through maintenance of public green spaces
- 2022\_Provincial Council of Gipuzkoa\_Process for the systematic incorporation of gender equality clauses in the contracts of the Provincial Council of Gipuzkoa
- 2021\_Barcelona Metropolitan Area\_Procuring solar V2G charging stations for electric vehicles

- 2021\_Municipality of Getxo\_Incentivising energy use improvements in sport centres
- 2020\_Ministry of Finance and Economic Modelling\_Using award criteria to purchase ecolabelled cleaning products
- 2020\_Barcelona Sports Institute\_Winning the race to reduce packaging in Barcelona
- 2019 Consorci de la Ribera\_Renovating the facade of an unused warehouse as part of plans for sustainable Youth Centre
- 2019\_Mutualia\_From the tap-replacing single-use water containers with the glass in the Basque Country
- 2018\_Ministry of Territory and Sustainability\_Socially responsible cleaning framework using green cleaning products
- 2017\_Basque Country\_Greening public procurement in the Basque Country
- 2016\_Barcelona Council\_City of Barcelona and Sustainable City Council Programme
- 2015\_Galician Public Healthcare Services\_An energy sufficient hospital
- 2015\_ICAEN\_Energy efficiency through performance contracting
- 2014\_SPRILUR SA\_Greening the construction, renovation and design of buildings in the Basque Country, Spain

#### -Sweden

- 2020\_City of Helsingborg\_Wholesaler of sustainable food for schools and elderly care homes
- 2019\_City of Vaxjo\_Increasing the share of organic food in public canteens
- 2019\_City of Malmo\_Furniture framework applying circular economy principles
- 2019\_Region Stockholm\_Sustainable procurement of desktop and portable computers

#### -Switzerland

- 2019\_City of Zurich\_A low carbon, circular economy approach to concrete procurement

#### -The Netherlands

- 2022\_Municipality of The Hague\_Purchasing materials for events in a sustainable way
- 2022\_Province of Zeeland\_Sustainable Procurement Plan 2021-2024 from the Province of Zeeland-using the SDGs as a compass
- 2018\_City of Rotterdam\_Sustainable, customer-oriented transport services
- 2018\_RWS\_Sustainable reconstruction of the A6 motorway in the Netherlands
- 2017\_City of Rotterdam\_Purchasing energy efficient street lighting
- 2017\_Province of North-Brabant\_Transitioning towards zero emission public transport

#### -UK

- 2016\_Nittingham Trent University\_Building carbon negative student facilities as part of a campus redevelopment
- 2016\_Scottish Government\_Purchasing Framework for energy efficient client computer systems

### 3) National case laws

#### Italy

- 2023\_Lazio Region\_Oxygen project-planting 6 million trees, one tree for each inhabitant of Lazio Region
- 2022\_Region Tuscany and ARPAT\_Procuring sustainable computers, printers and related services
- 2021\_University of Cagliari\_Vending machines for food and beverages
- 2021\_Veneto\_Networking for a common goal-a winning strategy to spread the GPP principles and effectively contribute to SD
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