

GPP in Practice



Definition

GPP is defined as the process where 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.





Why procurement?

Public procurement is a **powerful market force**



€1.8 trillion

is spent by EU public authorities each year
(14% of EU GDP)



€1 billion

4300 tender procedures

is spent by CY public authorities each year



€3 million

were spend by Cyl last year
(15% of Cyl Budget)

GPP aims to use this power to drive the market for more sustainable goods and services



GPP in practice



GPP in practice 1: The Cyprus Institute (2022)

Car Leasing based on Life Cycle Costing model

- Maximum acceptable CO2 emissions: 140 g/km
- Maximum acceptable fuel consumption in a combined cycle: 7 L/100km
- Automatic transmission (proven to contribute to lower fuel consumption compared to manual transmission).
- Extra points were awarded for Hybrid technology.
- Contract awarded 40% on price, 60% on environmental factors and technical requirements.



GPP in practice 1: Car Leasing (2022)



A/A	Evaluation Criteria	Weighting factor (%)
1	CO2 Emissions (g/km), maximum acceptable 140 g/km: For any 1 point lower (e.g. 139 g/km) of the maximum acceptable CO2 emissions, an extra weight of 1% will be awarded.	40
2	Hybrid cars will be directly awarded with 15%.	15
3	Ready to deliver	5
4	Fuel Consumption per 100km (Combined Cycle), maximum acceptable 7 L/100km: For any 0.1 point lower (e.g. 6.9 L/100km) of the maximum acceptable Fuel Consumption, an extra weight of 1% will be awarded.	20
5	Insurance Excess (own damage), maximum acceptable €600: For any €20 lower (e.g. €580) of the maximum acceptable Insurance Excess, an extra weight of 1% will be awarded.	20
TOTAL (T):		100



GPP in practice 1: Car Leasing (2022)



		TECHNICAL				FINANCIAL			FINAL
Sixt	KIA STONIC COMFORT 	emission	123	17	51.5	€ 345.64	€ 12,443.04	98.37	70.25
		Hybrid	0	0					
		deliver	5	5					
		fuel consumption	5.3	17					
		excess	350	12.5					
	TOYOTA YARIS ACTIVE HYBRID 	emission	87	40	92.5	€ 415.62	€ 14,962.32	81.81	88.22
		Hybrid	15	15					
		deliver	5	5					
		fuel consumption	3.8	20					
		excess	350	12.5					
Astra Group	Kia Rio 	emission	120	20	49	€ 380.00	€ 13,680.00	89.47	65.19
		Hybrid	0	0					
		deliver	0	0					
		fuel consumption	5.6	14					
		excess	300	15					
ASG	RENAULT CLIO 	emission	125	15	72.5	€ 395.00	€ 14,220.00	86.08	77.93
		Hybrid	15	15					
		deliver	5	5					
		fuel consumption	4.6	20					
		excess	250	17.5					
	KIA RIO 	emission	125	15	46.5	€ 340.00	€ 12,240.00	100.00	67.90
		Hybrid	0	0					
		deliver	0	0					
		fuel consumption	5.6	14					
		excess	250	17.5					
	HONDA JAZZ 	emission	102	38	95.5	€ 458.00	€ 16,488.00	74.24	86.99
		Hybrid	15	15					
		deliver	5	5					
		fuel consumption	4.5	20					
		excess	250	17.5					

GPP in practice 2: The Cyprus Institute (2021)

Green Cleaning Services

- Provision of cleaning products with **ECO Label**
- Vacuum cleaner energy efficiency, **Category A+**
- Environmental management measures and practices (**ISO 14001 / EMAS** certification)
- Staff training (use of environmental products)
- Contract awarded 40% on price, 60% on environmental factors and services.
- Social Responsibilities were a vital requirement.



GPP in practice 2: Green Cleaning Services (2021)



A/ A	Evaluation Criteria	Weighting factor (%)
1.	Provision of eco-labeled cleaning products 6% will be given with a maximum percentage of 36% biodegradable bags, Floor cleaner, Toilet perfume liquid, Liquid Hand Soap, Liquid dish soap, Reusable microfiber cloths	36%
2.	Energy efficiency of vacuum cleaners Contractor's commitment to use vacuum cleaners with energy efficiency class A+	4%
3.	Environmental management measures and practices <ul style="list-style-type: none"> • ISO 14001 certification submission 20% • EMAS certification submission 30% 	30%
4.	Staff training A percentage of 6% will be given for each topic that will be covered during staff training <ul style="list-style-type: none"> a) Cleaning products b) Energy saving c) Saving water d) Waste e) Health and safety 	30%
		100%

GPP in practice 2: Green Cleaning Services (2021)

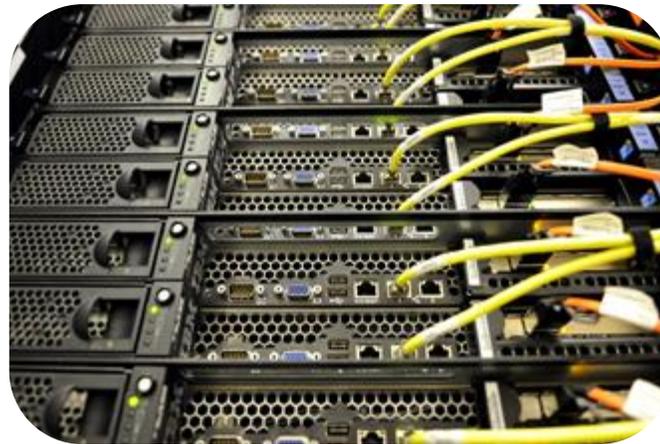


No.	NAME OF TENDERER	OFFERED PRICE	RELATIVE COST (C)	TECHNICAL OFFER EVALUATION MARK (T)	FINAL MARK OF TENDER (L)
1	B. A. THE BEST MCC LTD	€ 235,865.10	89.69	66	75.48
2	P.C.S. CLEANING SERVICES CYPRUS	€ 211,558.32	100	89.99	93.99
3	S.P.S. Security	€ 228,668.40	92.52	30	55

GPP in practice 3: The Cyprus Institute (2022)

Computational Infrastructure based on lowest cost

- HPC CPU (compute) nodes and associated equipment and services (cables, rack, warranty, transportation and installation)
- Joint purchase between EMME-CARE Teaming project and SimEA ERA-Chair project
- Contract awarded using a cost-effectiveness approach.
- For the calculation of the cost, both the total price of the nodes as well as the power consumption for a period of five years is taken into consideration.



GPP in practice 3: CPU compute nodes (2022)



Total Cost = Total amount of the offer + Total power consumption

Total power consumption = Total daily power consumption (KWh) of compute node * Cost of KWh * 365 (days) * 5 (years) * 36 (quantity)

Total daily power consumption (KWh) of compute node = PUE * Daily power consumption (KWh) of compute node

Daily power consumption (KWh) of compute node = [20 (hours) * Max Load Input Power (W) + 4 (hours) * Idle Input Power (W)] / 1000

NOTES:

a) **PUE = 1.6**

Power usage effectiveness (PUE) is a ratio that describes how efficiently a computer data center uses energy; specifically, how much energy is used by the computing equipment (in contrast to cooling and other overhead that supports the equipment).

More specifically PUE is the ratio of total amount of energy used by a high-performance computing data center facility to the energy delivered to computing equipment.

b) **Cost of KWh** = The cost per KWh that will be used for the above calculations and for the purposes of the evaluation of this competition is **€0,23 per KWh**

GPP in practice 3: CPU compute nodes (2022)



Total Cost = Total amount of the offer + Total power consumption

<i>Tenderer</i>	<i>Total Power Consumption</i>	<i>Total amount of the offer</i>	<i>Total Cost</i>
<i>MTI SYSTEMS AND IT SERVICES</i>	<i>€433,871.87</i>	<i>€509,780</i>	<i>€943,651.87</i>
<i>CBS IT SYSTEMS (CYPRUS) LTD</i>	<i>€350,962.04</i>	<i>€720,127</i>	<i>€1,071,089.04</i>
<i>Logicom Solutions LTD</i>	<i>€321,852.21</i>	<i>€594,725</i>	<i>€916,577.21</i>
<i>GCC Computers Ltd</i>	<i>€334,972.91</i>	<i>€424,990</i>	<i>€759,962.91</i>

Cyl GPP Strategy & Action Plan



The Institute's Strategy sets challenging yet realistic goals through the Organization's procurement activities to minimize negative environmental and social effects through the use of environmentally friendly practices and products.

Cyl Green Public Procurement Strategy and Action Plan

GREEN PUBLIC PROCUREMENT

THE CYPRUS INSTITUTE

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GPP Highlights



GPP in practice Cyprus Post Office

The Cyprus Post Office procured the first electric motorcycles in June 2019 in order to be used for the distribution of parcels and mail.

The supply of these electric motorcycles is part of the corporate and social responsibility of the Cyprus Post for the reduction of air pollutants and the protection of the environment.

Some characteristics of electric motorcycles are zero emissions, low maintenance costs and minimal power consumption, which is costed at current prices to be 50 cents per charge with the ability to travel up to 110 km while the engine performance is equal to a petrol engine of 125cc.

[For the Cyprus Post relevant article click here.](#)

The GPP Highlights is an initiative of the Procurement Office of The Cyprus Institute.

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The articles published in the GPP Highlights represent the personal views of the contributors and do not necessarily reflect those of The Cyprus Institute

Implementation of the first GPP Strategy and Action Plan at the Institute

Aiming to promote Sustainable and Green Public Procurement (GPP), the Procurement Office of The Cyprus Institute officially launched on November 2021 the implementation of the Institute's first GPP Strategy and Action plan until 2025.

This strategy was created in the context of the EU initiative "Public Procurement for a better environment" and based on the European Commission's guidelines on GPP, adjusted to fit the Institute's Research, Educational and Operational needs.

The overall objective of the Procurement Office, based on this strategy, is to provide guidance on how to use GPP criteria during procurement procedures, in order to procure goods, services and works with a reduced environmental impact through their life cycled when compared to goods, services and works with the same primary function. Moreover, the use of GPP criteria during the procurement procedures tends to influence the market and stimulate innovation in environmental technologies, products and services.

The GPP criteria as set under the relevant strategy cover twelve purchasing categories. Each of the categories are linked to specific criteria that should be taken into account during the preparation of the relevant tender documents.

[Please click here for the full article.](#)

Environmentally and Socially Responsible cleaning services at The Cyprus Institute

The Procurement Office in collaboration with the Facilities and Physical Infrastructure Office published in 2020 an EU competition for the Provision of Cleaning Services at The Cyprus Institute taking into consideration environmental and social criteria. The tender included a number of environmental criteria and social requirements to ensure that the winning company maintains good working conditions for their staff. Social requirements included confirmation that the companies comply with a number of Laws concerning the protection of employees, such as the provision of the minimum salary, practices that are in line with the legislations of equal opportunities and treatment at workplace, Maternity and Paternity Protection Law and Parental Leave benefits.

The resulting contract for a total duration of 3 years (worth approximately €70,500 annually) is now executed by the company that was awarded with the Environmental Management system standards ISO 14001 and who committed to the training of their staff on the mindful use of cleaning products,...

[Please click here for the full article.](#)



Changing Minds Not The Environment