

## EU GPP Criteria for data centres

### Overview of second draft criteria areas and proposals (v2.0 May 2018)

Criteria Area	Improvement area – Criteria proposal	Criterion code <sup>1</sup>	Description	Application level
IT System Performance	Server energy efficiency	TS1.1.1	Minimum active efficiency	Procurement of IT equipment
		AC1.1.1	Points awarded based on servers idle power	Procurement of IT equipment
		AC1.1.2	Points awarded in proportion to the server's active efficiency	Procurement of IT equipment
		AC1.1.3	Points based on the deployed power	Procurement of IT equipment
		CPC1.1.	Monitoring of IT energy consumption	Procurement of operation and/or maintenance services
	IT equipment utilisation	SC1.2.1	Competencies and experience in optimization of a server's utilization	Procurement of operation and/or maintenance services
		AC1.2.1	Points awarded based on the anticipated server utilisation level	Procurement of operation and/or maintenance services
		CPC1.2.1	Monitoring of the utilization rate	Procurement of operation and/or maintenance services
	Refresh Rate	TS1.3.1	Refresh the servers according to the optimal lifetime.	Procurement of operation and/or maintenance services
		CPC1.3.1	Calculation and management of data about the optimal server lifetime	Data centre is operated by a third party
	Design for disassembly and repair	TS1.3.2	Providing clear disassembly and repair instructions for key components	Procurement of IT equipment
	End of life management	TS1.3.3	Re-use and recycling service once the servers have reached the end of its service life.	Contracting of end of life services
		AC1.3.3	Points awarded to service providers ensuring that PCBs and external cables are separated and recycled.	Contracting of end of life services
Emissions of hazardous substances – restricted substance controls in servers	SC1.3.4	Restricted Substance Controls (RSCs) along the supply chain for the products to be supplied.	Procurement of IT equipment	
ICT Operating Range – Higher temperature hardware	TS1.4.1	IT hardware warrantied to operate within a temperature range	Procurement of IT equipment	
Mechanical and Electrical Systems	Power Utilisation Effectiveness (PUE)	AC2.1.1	Points awarded to tenderers based on the Design PUE	Construction / expansion of a data centre
		CPC2.1.1	Monitoring of the PUE	Procurement of operation and/or

<sup>1</sup> TS = Technical Specification; AC = Award Criteria; CPC = Contract Performance Clauses; SC = Selection Criteria;

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Performance				maintenance services	
		CPC2.1.2	Demonstration of Power Usage Effectiveness (PUE) at handover	Construction / expansion of a data centre	
	Reuse of waste heat	TS2.2.1	Connection to the local district heating	Construction / expansion of a data centre <i>(adapted to the local availability)</i> .	
		AC2.2.1	Points awarded based on the supply of waste heat	Construction / expansion of a data centre <i>(based on the local availability)</i> .	
		AC2.2.2	Points shall be awarded in proportion to the bidder that offers the highest Energy Reuse Factor.	Contracting of managed services	
		CPC2.2.1	Monitoring of the heating supply	Contracting of managed services	
	Cooling systems best practices	TS2.3.1	Design of the environmental monitoring system	Construction / expansion of a data centre	
		TS2.3.2	Best practices on airflow design and management	Construction / expansion of a data centre	
		TS2.3.3	Best practices on cooling plant design	Construction / expansion of a data centre	
		TS2.3.4	Best practices on Air Conditioning / Air Handling	Construction / expansion of a data centre	
		AC2.3.1	Points awarded based on the estimated cooling energy consumption	Construction / expansion of a data centre	
		CPC2.3.1	Monitoring of the cooling system energy consumption for the data centre.	Procurement of operation and/or maintenance services	
	Data Centre Performance	Renewable Energy Factor	AC3.1.1	Points awarded in proportion to the offers Renewable Energy Factor (REF)	Contracting of managed services
			AC3.1.2	Points awarded based on the projected proportion of load matched by renewable energy supplied directly to the site	Construction / expansion of a data centre
CPC3.1.1			Monitoring of the Renewable Energy Factor (REF)	Contracting of managed services	
Use of refrigerants and their Global Warming Potential		AC3.2.1	Points awarded in proportion to the global warming potential of the refrigerants	Construction / expansion of a data centre	
		CPC3.2.1	Monitoring of the GHG emissions from refrigerants.	Data centre is operated by a third party	