

## EU GPP Criteria for data centres

### Overview of first draft criteria areas and proposals (v1.0 October 2017)

Criteria Area	Improvement area – Criteria proposal	Criterion code <sup>1</sup>	Description	Application level
Data Centre Performance	Greenhouse gas emissions – Renewable Energy Factor	AC1.1	Points awarded in proportion to the Renewable Energy Factor (REF)	Whole data centre - To be included when the data centre is operated by a third party
		CPC1.1	Monitoring of the Renewable Energy Factor (REF)	Whole data centre - To be included when the data centre is operated by a third party
	Greenhouse gas emissions – Facility Greenhouse Gas Inventory	AC1.2	Points awarded in proportion to the estimated GHG emissions	Procurement of a whole new data centre facility
		CPC1.2	Monitoring of the GHG emissions	Procurement of a whole new data centre facility
IT System Performance	IT energy efficiency – Server energy efficiency	TS2.1	Servers shall meet the ENERGY STAR requirements	Procurement of IT equipment in enterprise and co-location data centres
		AC2.1	Points awarded to servers above ENERGY STAR requirements.	Procurement of IT equipment in enterprise and co-location data centres
	IT utilisation – IT equipment utilisation	AC2.2	Points will be awarded based on the anticipated average utilisation rate for the IT equipment	<ul style="list-style-type: none"> <li>• Consolidation and virtualisation projects</li> <li>• Contracting of managed services</li> </ul>
		CPC2.2	Monitoring of the utilization rate	<ul style="list-style-type: none"> <li>• Consolidation and virtualisation projects</li> <li>• Contracting of managed services</li> </ul>
	IT Material Efficiency – Emissions of hazardous substances	AC2.3	Points shall be awarded where the main Printed Circuit Board of the server models used are 'halogen free'	Procurement of IT equipment in enterprise and co-location data centres

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

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	IT Material Efficiency – Design for durability	TS2.4	Minimum three-year warranty effective from delivery of the servers	Procurement of IT equipment in enterprise and co-location data centres
		AC2.4	Points awarded in proportion to the additional warranty	Procurement of IT equipment in enterprise and co-location data centres
	IT Material Efficiency – Design for disassembly and repair	TS2.5	Disassembly and repair instructions to be provided	Procurement of IT equipment in enterprise and co-location data centres
		AC2.5	Points awarded based on the availability of spare parts for servers	Procurement of IT equipment in enterprise and co-location data centres
	IT Material Efficiency – Design for dismantling and recycling	TS2.6	Dismantling test reports for servers to be provided	Procurement of IT equipment in enterprise and co-location data centres
	IT Material Efficiency – End of life management	TS2.7	Re-use and recycling service once the servers have reached the end of its service life.	Contracting of end of life services
		AC2.7	Points awarded to tenderers operating a tracking system for servers	Contracting of end of life services
		CPC2.7	Reporting on the status of the server equipment once processed for re-use or recycling/disposal.	Contracting of end of life services
	IT Equipment Operating Range – Temperature and Humidity Range	TS2.8	IT hardware shall be warrantied to operate within a temperature range	Procurement of IT equipment in enterprise and co-location data centres
	Mechanical and Electrical Systems Performance	Mechanical & Electrical systems energy efficiency – Power Utilisation Effectiveness (PUE)	TS3.1	PUE target to be met.
AC3.1			Points awarded to tenderers based on the PUE	<ul style="list-style-type: none"> <li>Construction of a new data centre</li> <li>Expansion or consolidation of an existing site.</li> <li>Managed services in a specific hosting</li> </ul>

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				facility
		CPC3.1	Monitoring of the PUE	Managed services in a specific hosting facility
	Cooling – Reuse of waste heat	TS3.2	The data centre shall be connected to and supply waste heat to the local district heating network (expressed as the Energy Reuse Factor)	<ul style="list-style-type: none"> <li>• Construction of a new data centre</li> <li>• Expansion or consolidation of an existing site.</li> </ul>
		AC3.2a	Points shall be awarded to bidders that commit to supply waste	<ul style="list-style-type: none"> <li>• Construction of a new data centre</li> <li>• Expansion or consolidation of an existing site.</li> </ul>
		AC3.2b	Points shall be awarded in proportion to the bidder that offers the highest Energy Reuse Factor.	Contracting of managed services
		CPC3.2	Monitoring of the heating supply	To be included when the data centre is operated by a third party.
		Cooling management – Operating conditions control	AC3.3	Points awarded based on the % of operating hours ensured within a specific temperature range.
	CPC3.3		Monitoring and report environmental conditions	Contracting of managed services
	Cooling – Water discharge	AC3.4	The data centre designer (or operator) shall be awarded points based on the volume of water discharged on site.	<ul style="list-style-type: none"> <li>• Construction of a new data centre</li> <li>• Expansion or consolidation of an existing site.</li> <li>• Contracting of managed services</li> </ul>
		CPC3.4	The water discharged shall be measured and reported on.	Contracting of managed services