RRMQ -Responsible resource management practices' questionnaire for remanufacturing SMEs

consumption level  WCL1  WCL2  WCL2  WCL2  WCL2  WCL2  WCL2  WCL3  WCL2  WCL2  WCL3  WCL2  WCL2  WCL3  WCL2  WCL3  WCL3  WCL2  WCC1	IMMQ -1	RRMQ -Responsible resource management practices' questionnaire for remanufacturing SMEs				
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WW3   sludge generation is monitored at process output; water is not reused	Waste water (WW)	WW4	sludge generation is monitored at work stations; water is not reused			
WW2   Sludge generation is not monitored; water is not reused		WW3	sludge generation is monitored at process output; water is not reused			
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CHG emissions are not measured and monitored; min. legal requirements are implemented		CTI A	, , , , , , , , , , , , , , , , , , , ,			
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ECL4   Energy consumption is not monitored; only min. legal requirements are implemented		ECL3	actions are taken to lower energy consumption			
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Some energy saving actions are taken; company is not aware of the renewable		ECLO				
ESL2   energy alternatives   ESL2   Energy saving actions are taken only if required by legal regulations (e.g. changings bulbs for more energy-efficient ones)		ESLS				
(ESL)  Energy saving actions are taken only if required by legal regulations (e.g. changings bulbs for more energy-efficient ones)  Quantity of primary materials at work station are monitored and measured; systematically actions are taken to lower primary materials consumption		FSI 2				
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Primary  Quantity of primary materials at work station are monitored and measured; systematically actions are taken to lower primary materials consumption		ESI.1				
Primary systematically actions are taken to lower primary materials consumption		LULI				
	Primary					
	materials	MCL5	, , , , , , , , , , , , , , , , , , ,			

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 $<sup>^{\</sup>ast}$  Please kindly mark only one answer ("YES" - "Y") for each of the 10 provided criteria.

consumption level	MCL4	Quantity of primary materials at work stations are monitored and measured; ad hoc actions are taken to lower primary materials consumption	
(MCL)	MCL3	Quantity of primary materials are monitored and measured at process level; ad hoc actions are taken to lower primary materials consumption	
	MCL2	Quantity of primary materials are monitored at cost level (reviewing invoices); ad hoc actions are taken to lower primary materials consumption	
	MCL1	Quantity of primary materials are sometimes monitored at cost level (reviewing invoices); no additional actions are taken to lower primary materials consumption	
	MRL5	Materials recovery rate is measured and monitored at each stage of process/each work station; systematically actions are taken to increase materials recovery above industry standards (e.g. APRA)	
		Materials recovery rate is measured and monitored at each stage of process/each work station; ad hoc actions are taken to increase materials recovery above industry	
	MRL4 MRL3	standards (e.g. APRA)  Materials recovery rate is monitored at end of process; actions are taken to keep materials recovery at industry standards (e.g. APRA)	
Material	MRL2	Materials recovery rate is monitored at end of process; actions are taken if materials recovery internal goal is not met	
recovery level (MRL)	MRL1	Materials recovery rate is monitored at end of process; additional actions are not taken	
Waste generation	WGL5	Quantity of waste generated at work station are monitored and measured; systematically actions are taken to lower waste	
	WGL4	Quantity of waste generated at work stations are monitored and measured; ad hoc actions are taken to lower waste	
	WGL3	Quantity of waste generated are monitored and measured at process level; ad hoc actions are taken to lower waste	
	WGL2	Quantity of waste generated are monitored at cost level (reviewing invoices);ad hoc actions are taken to lower waste	
level (WGL)	WGL1	Quantity of waste generated are ad hoc monitored at cost level (reviewing invoices); no actions are taken to lower waste	
Recycling level (RL)	RL5	Materials/scrap is sent for recycling; sorting procedures are implemented at each work station; actions are taken to systematically improve internal recycling goals	
	RL4	Materials/scrap is sent for recycling; sorting procedures are implemented at each work station; ad hoc actions are taken improve internal recycling goals	
	RL3	Materials/scrap is sent for recycling; actions are taken to meet internal recycling goals	
	RL2	Materials/scrap is sent for recycling to meet legal requirements; additional internal goals are defined	
	RL1	Materials/scrap is sent for recycling to meet legal requirements; no additional actions are taken	
Reused/recycl ed material consumption (RMC)	RMC1	Recycled materials usage is not monitored; no additional actions are taken	
	RMC2	Recycled materials are used to meet legal requirements; no additional internal goals are defined	
	RMC3	Recycled materials are used where possible; internal goals for secondary materials /parts are defined	
	RMC4	Recycled materials are used where possible; ad hoc actions are taken to improve internal goal to	
	RMC5	Recycled materials are used where possible systematically actions are taken improve internal goal	
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