

LISTA DE LAS CATEGORÍAS Y TECNOLOGÍAS PROPUESTAS INCLUYENDO LOS CRITERIOS MÍNIMOS DE RENDIMIENTO (MPC: MINIMUM PERFORMANCE CRITERIA)

Categories	Sub-categories	Unit	MPC platinum FROM	MPC platinum TO
<b>Windows &amp; Doors</b>	Windows	W/m <sup>2</sup> K	1,17	0,5
	Glazing	W/m <sup>2</sup> K	1,05	0,5
	Doors	W/m <sup>2</sup> K	1,17	0,5
<b>Insulation</b>	Thickness from 50 to 99 mm	W/(m·K)	0,035	0,01
	Thickness from 100 to 149 mm	W/(m·K)	0,04	0,01
	Thickness more than 150 mm	W/(m·K)	0,04	0,01
<b>Boilers</b>	Biomass boilers	%	87	110
	Gas boilers	%	92,3	110
	Oil boilers	%	89,5	110
	Solar thermal collectors	%	75	85
<b>Heat Pumps</b>	Water source heat pumps	COP	3,8	9,9
	Air source heat pumps	COP	4,1	9,9
	Ground source heat pumps	COP	5	9,9
<b>Power &amp; Cogeneration</b>	CHP Combustion engine	%	32,4	50
	CHP Sterling motor	%	14,4	25
	CHP Gas turbine	%	24	50
	Photovoltaics	%	14	20
	Li-Ion batteries	%	0,9	1
	Redox flow batteries	%	0,75	1
	CHP Fuel cell	%	33,6	65
<b>Cooling</b>	Water-cooled chillers	COP	1,92	9,9
	Air-cooled chillers	COP	1,92	9,9
	Absorption chillers	COP	1,92	9,9
	Cabinet and counters	-	68	20
<b>Motors &amp; Pumps</b>	Compressed Air	Wh/Nm <sup>3</sup>	100	90
	Electric Motors	n/a	IE 3	IE 4
	Circulators	n/a	0,288	0,1
	Water pumps	n/a	0,7	0,9

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<b>Process Technologies</b>	Injection moulding machines	kWh/kg	0,72	0,15
	Extruder machines	kWh/kg	0,63	0,15
<b>Transport</b>	Electric forklifts	Wh/kg.h	0,9	0,3
	Diesel forklifts	ml/kg.h	0,488	0,2
	LPG forklifts	g/kg.h	0,465	0,2
	Tractors	g/kWh	213,75	175
	Combine Harvester	g/kWh	213,75	175
	Loaders	g/kWh	212	175
	Excavators	g/kWh	212	175
	Backhoe loaders	g/kWh	212	175
	Light duty electric cars	$\frac{g}{CO_2/kWh}$	75	0
<b>Domestic Appliances</b>	Fridges & Freezers	n/a	A+++	A+++
	Hot water cylinder	EE label	C	A+
	Air Conditioners	n/a	A+++	A+++
<b>Lighting</b>	High pressure sodium lamps	lm/W	72	130
	LED Lighting	lm/W	78	130
<b>Cleaning and washing</b>	Semi-professional washer extractor	kWh/h	0,14	0,1
	Professional washer extractor, <15 kg	kWh/h	0,164	0,1
	Professional washer extractor, 15-40 kg	kWh/h	0,204	0,1
	Professional washer extractor, >40 kg	kWh/h	0,36	0,1
	Professional barrier washer	kWh/h	0,401142857	0,1
<b>Irrigation</b>	Greenhouse	-	Multi-select: single-glazed glass wall, double-glazed glass wall, polyethylene (>100 microns) wall, Polyvinyl (>100 microns) wall, Fiberglass (>100 microns) wall	
	Drip irrigation line	-		
	Sprinklers	-		
	Sub-soil drip irrigation line	-		
<b>Land preparation and seeding</b>	Subsoiler	cm	40	
	Mulcher			

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	Central Tire Inflation Systems			
	Seed drill / No-tillage seeder	-	Seed drill or Seed planter	
	Roller crimper			
<b>Water reuse &amp; recovery</b>	Rainwater harvesting - storage tanks	-	Equipped with calmed inlet and overflow (provided as manufacturer's auxiliary equipment) or Equipped with calmed inlet and overflow (pre-installed)	

