

Standard Table: *energy generator*

Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets
<b>Final_Energy_Generator</b>		-	generator of final energy	-	string	-	-
<i>is</i>	<b>Boiler</b>	-	a gas or liquid fuelled appliance designed to provide hot water for space heating. It may (but need not) be designed to provide domestic hot water as well	EN 15316-4-1 TABULA	string	-	-
<i>is</i>	<b>Boiler_Non-condensing</b>	-	boiler not so designed, or without the means to remove the condensate in liquid form	EN 15316-4-1 TABULA	string	-	-
<i>is</i>	<b>Boiler_Condensing</b>	-	boiler designed to make use of the latent heat released by condensation of water vapour in the combustion flue products	EN 15316-4-1 TABULA	string	-	-
<i>is</i>	<b>Wood-pellets_Boiler</b>	-	boiler for combustion of wood pellets	TABULA	string	-	-
<i>is</i>	<b>Heating_Boiler_Standard_Combustion</b>	-			string	-	-
<i>is</i>	<b>Mixed_Boiler_Standard_Combustion</b>	-			string	-	-
<i>is</i>	<b>Other_Electric_Boiler</b>	-			string	-	-
<i>is</i>	<b>Water_Heater</b>	-	heater for domestic hot water	EN 15316-3-3*	string	-	-
<i>is</i>	<b>Direct_Gas_Fired_Storage_Water_Heater</b>	-	-	EN 15316-3-3	string	-	-
<i>is</i>	<b>Direct_Electrical_Heated_Storage_Water_Heater</b>	-	-	EN 15316-3-3	string	-	-
<i>is</i>	<b>DHW_Boiler_Standard_Combustion</b>	-			string	-	-
<i>is</i>	<b>DHW_Electric_Boiler</b>	-			string	-	-
<i>is</i>	<b>Heat_Pump</b>	-	unitary or split-type assemblies designed as a unit to transfer heat. It includes a vapour compression refrigeration system or a refrigerant/sorbent pair to transfer heat from the source by means of electrical or thermal energy at a high temperature to the heat sink	EN 15316-4-2 TABULA	string	-	-
<i>is</i>	<b>Air_Heat_Pump</b>	-	heat pump using the external air as the heat source	TABULA	string	-	-
<i>is</i>	<b>Ground_Heat_Pump</b>	-	heat pump using the ground as the heat source	TABULA	string	-	-
<i>is</i>	<b>Water_Heat_Pump</b>	-	heat pump using ground water or a water stream as the heat source	TABULA	string	-	-
<i>is</i>	<b>Split-Multisplit_Heat_Pump</b>	-			string	-	-
<i>is</i>	<b>Air_Pipes_Heat_Pump</b>	-			string	-	-
<i>is</i>	<b>Chiller</b>	-	any cold generator used as part of an air conditioning unit or system	EN 15243	string	-	-
<i>is</i>	<b>District_Heating</b>	-	system which supplies hot water or steam to the building thermal system from a heat generation system outside the building	EN 15316-4-5	string	-	-
<i>is</i>	<b>District_Cooling</b>	-		-	string	-	-
<i>is</i>	<b>Combined_Heat_And_Power_Generator</b>	-	cogeneration system: combined heat and electric power generator	TABULA	string	-	-
<i>is</i>	<b>Thermal_Solar_Plant</b>	-	thermal solar plant	TABULA	string	-	-
<i>has</i>	<b>Thermal_Solar_Plant_Collector_Type</b>	-	type of solar collector of the thermal solar plant	-	string	-	-
<i>has</i>	<b>Thermal_Solar_Plant_Collector_Area</b>	-	area of the solar collector of the thermal solar plant	-	real	m <sup>2</sup>	-
<i>has</i>	<b>Thermal_Solar_Plant_Collector_Efficiency</b>	-	efficiency of the solar collector of the thermal solar plant	-	real	%	-
<i>has</i>	<b>Thermal_Solar_Plant_Collector_Heat_Loss</b>	-	heat loss coefficient of the solar collector of the thermal solar plant	-	real	W/(m <sup>2</sup> K)	-

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Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets
<i>has</i>	<b>Thermal_Solar_Plant_Collector_Orientation</b>	-	orientation of the solar collector of the thermal solar plant	-	real	°	-
<i>has</i>	<b>Thermal_Solar_Plant_Collector_Tilt</b>	-	tilt of the solar collector of the thermal solar plant	-	real	°	-
<i>has</i>	<b>Thermal_Solar_Plant_Collector_Overshading</b>	-	overshading of the solar collector of the thermal solar plant	-	real	-	-
<i>is</i>	<b>PVSystem</b>	-	photovoltaic system	-	string	-	-
<i>has</i>	<b>PVSystem_Peak_Power</b>	-	electrical power of a photovoltaic system with a given surface and for a solar irradiance of 1 kW/m <sup>2</sup> on this surface (at 25 °C)	EN 15316-4-6	real	W	-
<i>has</i>	<b>PVSystem_Efficiency</b>	-	efficiency of the photovoltaic system	-	real	%	-
<i>has</i>	<b>PVSystem_Moduls_Area</b>	-	area of the moduls of the photovoltaic system	-	real	m <sup>2</sup>	-
<i>has</i>	<b>PVSystem_Moduls_Orientation</b>	-	orientation of the moduls of the photovoltaic system	-	real	°	-
<i>has</i>	<b>PVSystem_Moduls_Tilt</b>	-	tilt of the moduls of the photovoltaic system	-	real	°	-
<i>is</i>	<b>Hydro_Power_Generator</b>	-	-	-	string	-	-
<i>is</i>	<b>Mini_Hydro_Power_Generator</b>	-	-	-	string	-	-
<i>is</i>	<b>Macro_Hydro_Power_Generator</b>	-	-	-	string	-	-
<i>has</i>	<b>Energy_Generator_Power</b>	-	power of the final energy generator	-	real	W	-
<i>has</i>	<b>Energy_Generator_Efficiency</b>	-	efficiency of the final energy generator	-	real	%	-
<i>has</i>	<b>Energy_Generator_Scale</b>	-	spatial scale of the final energy generator	-	string	-	-
<i>is</i>	<b>Building_Scale</b>	-	-	-	string	-	-
<i>is</i>	<b>Local_District_Scale</b>	-	-	-	string	-	-
<i>is</i>	<b>Central_District_Scale</b>	-	-	-	string	-	-
<i>has</i>	<b>Energy_Carrier</b>	<i>energy carrier</i>	substance or phenomenon that can be used to produce mechanical work or heat or to operate a process	ISO/IEC CD 13273-1	string	-	"energy_quantities"
<i>has</i>	<b>Energy_Source</b>	<i>energy source</i>	material, natural resource or technical system from which energy can be extracted or recovered either directly or by means of energy conversion	ISO/IEC CD 13273-1	string	-	"energy_quantities"
<i>has</i>	<b>Energy_Service</b>	<i>energy services</i>	related to the services provided by the technical building systems and by appliances to provide the indoor climate condition, illumination and other services related to the use of the building	UNI TR 16344* EN 15603*	string	-	"energy_quantities"
<i>has</i>	<b>Energy_Quantity_Related_To_Technical_Building_System</b>	-	energy referred to the technical building systems	-	-	-	"energy_quantities"