



**TOTALLY INTEGRATED POWER**

# Checklist for energy efficiency assessment according to IEC 60364-8-1

## Part 1: For users of SIMARIS design

Building type:	Industry	Commercial buildings			
	Infrastructure				
Total annual energy consumption:	kWh				
Usable area:	m <sup>2</sup>				
Building area defined in zones:	m <sup>2</sup>				
Number of criteria to determine meshes:	1	2	3	4	> 4
Capturing the annual energy consumptions of individual items of equipment:	Have the list available with all the metrologically captured consumers and their consumption.				
Which current using items of equipment are measured?	Have the list available.				
Is the option of load shedding provided for?	Yes	min.			
If so, for how long? (≥ 50 % of possible loads)	No				
Is a comparison with equivalent installations of the same function provided for?	Have the consumption and type of tested equivalent installations available.				
Is occupancy measurement available?	Yes	No			
Annual energy consumption of the individual zones with occupancy measurement:	kWh				
Is energy management available?	Yes	No			

Annual energy consumption of loads integrated into an EEMS:	kWh	
Type of HVAC control (temperature, level, time):		
Consumption of light installation, and which share is controlled automatically?	kWh	kWh
Are all zones captured individually?	Yes	No
Is there a continuous maintenance/performance monitoring available?	Yes	No
How frequently do verifications and optimizations happen? (e.g. daily)		
For how long is collected data available?	< 1 Year	
	1 - 5 Years	
	> 5 Years	
Are loads making up more than 10 % of the total consumption of the installation permanently monitored?	Yes	No
Estimate of THD <sub>i</sub> or THD <sub>u</sub> :	%	
Are renewable energies integrated?	Yes	kWh
What is the total annual energy generation?	No	
Are energy storages available?	Yes	kWh
What is their capacity?	No	

## Part 2: Additional requirements for users without SIMARIS design

Average route length or barycentre:	Have the calculations available.
Mean voltage drop:	%
Efficiency of the transformer:	%
Working point of the transformer:	Have the calculations available.
Power factor (cos φ):	



**By filling in the list, you have gained an overview of the project. Do you require more detailed information, e.g. about concept development or budget estimation?**

Contact your responsible TIP partner using the data of your checklist: [siemens.com/tip/contact](https://www.siemens.com/tip/contact)

Totally Integrated Power assist electrical planners in the different planning phases: with software tools, Revit files for Building Information Modeling (BIM), tender specification texts, planning and application manuals, as well with professional advice and trainings performed by technical experts in many countries: [siemens.com/tip](https://www.siemens.com/tip)