

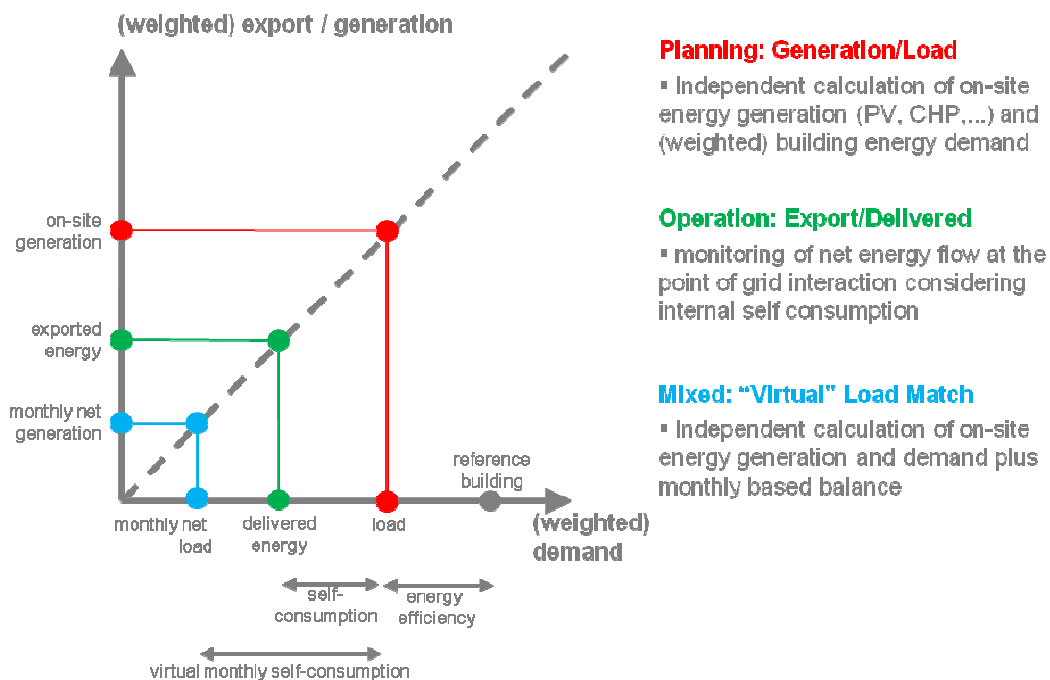
DIRECTIVE 2010/31/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
of 19 May 2010
on the energy performance of buildings
(recast)

Article 9

Nearly zero-energy buildings

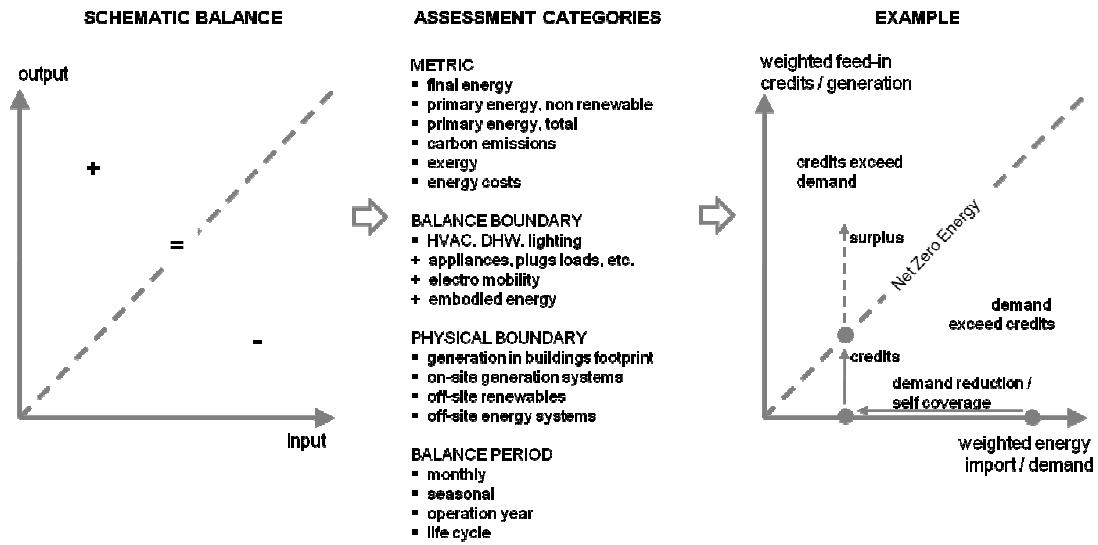
1. Member States shall ensure that:

- (a) by 31 December 2020, all new buildings are nearly zero-energy buildings; and
- (b) after 31 December 2018, new buildings occupied and owned by public authorities are nearly zero-energy buildings.



31.12.2018 buildings for public authorities.
31.12.2020 all new buildings!

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Additions to the commissioning process

Renewable energy related additions	
1.	Helping the owner to set the goals for the annual energy consumption and CO ₂ levels of the building.
2.	Helping the owner to choose the most competent renewable energy designer and vendor.
3.	Helping the owner to choose a renewable energy specialist consultant if needed.
4.	Reviewing the main design for the placement of on-site renewables.
5.	Assuring that the renewable energy and building service solutions work together seamlessly.
6.	Assuring that renewable energy solutions are installed and calibrated appropriately.
7.	Doing a seasonal, 18-month follow-up calibration of the appliances, if needed.
8.	Training the maintenance crew to use and maintain the equipment.
Building service systems related additions	
1.	Helping the owner to choose the most competent HVAC designer and vendor and promoting co-operation between them and the main designer.
2.	Assuring that the commissioning process is stated in the building service contracts.
3.	Reviewing the HVAC designs on the functionality of the integration between automation, DDC, HVAC appliances, and renewable energy.
4.	Reviewing the main design in terms of the accessibility of the building service appliances.
5.	Assuring that the building service systems are properly installed.
6.	Calibrating the building service systems initially and seasonally on an 18-month follow-up period.
7.	Preparing the maintenance manual for the maintenance crew and information package for the end user.
8.	Training the maintenance crew on how to use the DDC system and maintain the appliances.

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Code	Energy Efficiency Measure
M 1	Thermal insulation
M 2	Efficient window
M 3	Solar shadings
M 4	Condensing boiler
M 5	Biomass boiler
M 6	District heating and cooling
M 7	Air source heat pump
M 8	Ground or water source heat pump
M 9	Variable refrigerant flow system
M 10	High efficient chiller
M 11	Absorption chiller
M 12	Mechanical ventilation
M 13	Heat recovery system
M 14	Free cooling
M 15	Solar thermal system
M 16	Photovoltaic system
M 17	Efficient lighting
M 18	Management / Control system

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31.12.2020 all new buildings!