S3UNICA
Interreg Europe

European Union
European Regional
Development Fund

Smart Readiness Indicator

Ing. Luca Bertoni

Energy Manager – University of Trieste

Luca.bertoni@units.it

2018/844 Directive (EU)

19.6.2018 EN Official Journal of the European Union L 156/75

DIRECTIVE (EU) 2018/844 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 30 May 2018

amending Directive 2010/31/EU on the energy performance of buildings and Directive 2012/27/EU on energy efficiency

(Text with EEA relevance)

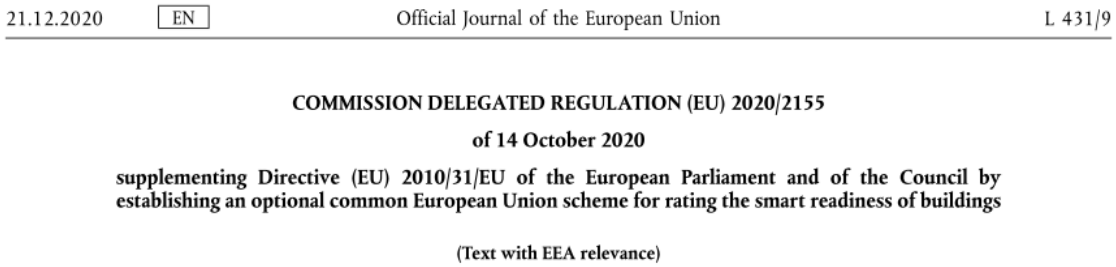
'Article 8

Technical building systems, electromobility and smart readiness indicator

10. The Commission shall, by 31 December 2019, adopt a delegated act in accordance with Article 23, supplementing this Directive by establishing an optional common Union scheme for rating the smart readiness of buildings. The rating shall be based on an assessment of the capabilities of a building or building unit to adapt its operation to the needs of the occupant and the grid and to improve its energy efficiency and overall performance.

The European Commission introduced the Smart Readiness Indicator in 2018 to evaluate the capability of a building to adapt its operation to the needs of the occupant, which can vary over time and space

REGULATION 2020/2155 of 14 October 2020



21.12.2020 EN Official Journal of the European Union L 431/9

COMMISSION DELEGATED REGULATION (EU) 2020/2155

of 14 October 2020

supplementing Directive (EU) 2010/31/EU of the European Parliament and of the Council by establishing an optional common European Union scheme for rating the smart readiness of buildings

(Text with EEA relevance)

And in 2020 approved a scheme for rating the smart readiness of buldings

Smart Readiness Indicator

		Energy Saving and operation		Respond to user needs				Respond to needs of the grid
		61%		49%				60%
		62%	60%	62%	51%	36%	42%	60%
	SRI %	Energy savings on site	Maintenance & fault prediction	Comfort	Convenience	Health & wellbeing	information to occupants	Flexibility for the grid and storage
DOMAINS	Heating	88%	100%	60%	100%	50%	25%	88%
	Domestic hot water	67%	Not applicable	50%	Not applicable	40%	50%	67%
	Cooling	88%	67%	100%	86%	86%	50%	88%
	Controlled ventilation	33%	17%	Not applicable	33%	33%	0%	33%
	Lighting	0%	Not applicable	Not applicable	0%	0%	Not applicable	0%
	Dynamic building envelope	0%	0%	Not applicable	0%	0%	0%	0%
	Electricity	80%	Not applicable	33%	Not applicable	40%	50%	80%
	Electric vehicle charging	Not applicable	Not applicable	25%	Not applicable	83%	Not applicable	Not applicable
	Monitoring and control	50%	Not applicable	67%	Not applicable	57%	75%	50%

UniTS and UniUD have developed, on the basis of the scheme approved by the European Commission, a calculation algorithm to quantify the SRI

SRI
54,64%

Smart Readiness Indicator

EUROPEAN
COMMISSION

Brussels, 15.12.2021
COM(2021) 802 final

2021/0426 (COD)

Proposal for a

DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on the energy performance of buildings (recast)

The SRI is also re-proposed in the EPBD Directive under discussion in the Parliament these days

Smart Readiness Indicator

Article 13

⌦ Smart readiness of buildings ⌫

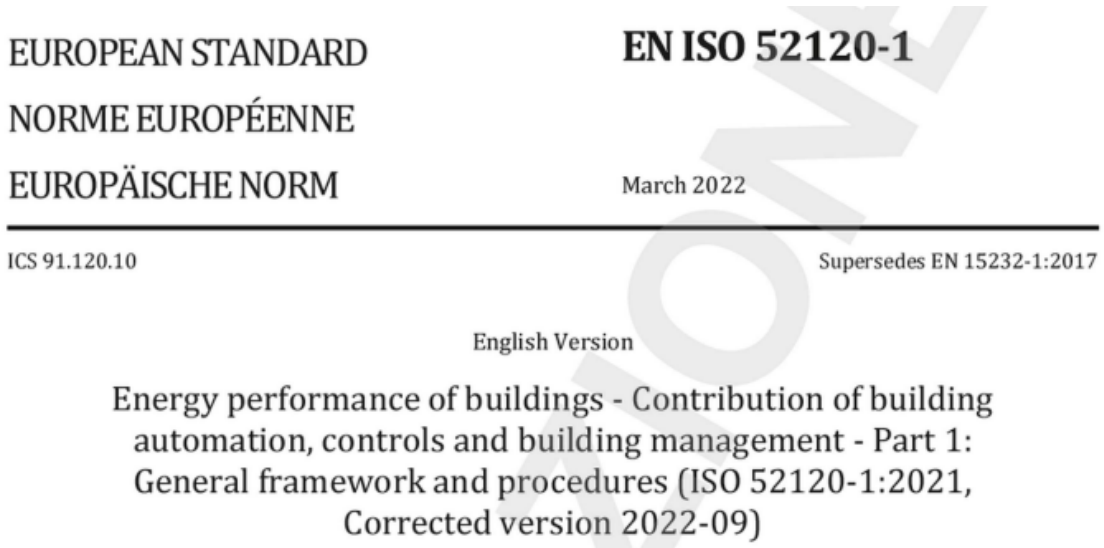
1~~0~~. The Commission shall~~, by 31 December 2019,~~ adopt ~~a~~ delegated ~~act~~ ⌦ acts ⌫ in accordance with Article 29~~23,~~ ~~supplementing this Directive by establishing~~ ⌦ concerning ⌫ an optional common Union scheme for rating the smart readiness of buildings. The rating shall be based on an assessment of the capabilities of a building or building unit to adapt its operation to the needs of the occupant and the grid and to improve its energy efficiency and overall performance.

In accordance with Annex IV~~Ia~~, the optional common Union scheme for rating the smart readiness of buildings shall ⌦ lay down ⌫ :

(a) ~~establish~~ the definition of the smart readiness indicator; and

(b) ~~establish~~ a methodology by which it is to be calculated.

Smart Readiness Indicator



EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 52120-1

March 2022

ICS 91.120.10

Supersedes EN 15232-1:2017

English Version

Energy performance of buildings - Contribution of building automation, controls and building management - Part 1: General framework and procedures (ISO 52120-1:2021, Corrected version 2022-09)

The Internatio technical regulation on the subject of BACS has recently updated its classification scheme into 4 different classes

Smart Readiness Indicator

SPECIFICA TECNICA

Procedura di asseverazione per i sistemi di automazione e regolazione degli edifici in conformità alla UNI EN ISO 52120-1

UNI/TS 11651

FEBBRAIO 2023

Asseveration procedure for the Building Automation and Control System in accordance with UNI EN ISO 52120-1

The Italian technical regulation on the subject of BACS has recently published an asseveration procedure for the BACS in accordance with UNI EN ISO 52120

Smart Readiness Indicator

In the future, the **Smart Readiness Indicator** will be present on the **energy performance certificates**, alongside the **energy class**, to inform consumer citizens, in accordance with the EPD, not only of the energy performance of the building, in standard condition, but also the capability, in real condition, of a building to adapt its operation to the needs of the occupant and the grid and to improve its energy efficiency and overall performance.

Smart Readiness Indicator

The European Directives tell us that “Public authority buildings and buildings frequently visited by the public **should set an example** by taking environmental and energy considerations into account “

Using the smart readiness indicator today to determine regional policies means tracing a path and following, **today**, the path that Europe shows us for **tomorrow**

S3UNICA
Interreg Europe

European Union
European Regional
Development Fund

Thank you!

Questions welcome

Project media