

# LIFE-2021-CET

# LIFE-2021-CET-SMARTREADY

Grant agreement no.: 101077241

# **Smart Square**

# Smart Tools for Smart Buildings: Enhancing the intelligence of buildings in Europe

Start date of Project: 01/10/2022 Duration: 36 months

# **USER GUIDE**

**SMART2 BETA VERSION** 



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# **1. Account Creation**

#### **1.1 System Requirements**

To use the Smart<sup>2</sup> platform, creating an account is mandatory. You must have a valid email address to proceed.

- [1] Click the "Create an account" button to begin the creation process.
- [2] The subsequent steps are illustrated in Figures 1-2, guiding you through account setup.

	<b>SMORT</b> Welcome to Smart <sup>2</sup> platform!	No. 10 Marco
SRI 75%	EMAIL afxentiounikolas@gmail.com PASSWORD Forgot Passw	word?
	Remember me? Sign in	82
How smart ready is your building? 5	New on our platform? Create an account	
The Smart readiness indicator (SRI) is a common EU scheme for rating the smart readiness of buildings. The smart readiness indicator rating depends on a building's capacity to accommodate smart-ready services.		

Figure 1: Create an account

Welcome aboard! 🚀	
Please fill out the form below to g	et started
EMAIL	
Enter your email	
PASSWORD	
Enter your password	Ø
CONFIRM PASSWORD	
re-enter your password	Ø
Sign up	
Already have an account? S	ign in instead

Figure 2: Register page



#### 1.2 Introduction to the main page

Figure 3 displays the main page, which is organised into three primary tabs:

- [1] Home: Serves as the landing page for users.
- [2] **Assessment**: Contains two sub-tabs; the first allows users to create a new assessment, and the second, "Project Database," stores project information.
- [3] **Call Centre:** Features a simplified questionnaire method that enables users to complete a selfassessment in less than 10 minutes. The first sub-tab allows for creating a new project, and the second sub-tab serves as a repository for project information.

SM IRT <sup>2</sup>			<u>य छ</u> राष्ट्र	Q .
🙆 Home 🔲 Assessment	✓ I Call Centre ✓			
Welcome to Smart2 platform		Getting start Click the button I Last updated 3 mind	ed! below for video tutorials. s ago History of the SRI	L
Advantages The 'smartness' of a building re an efficient manner to changing • The operation of technical • The external environment i • Demands from building occ	efers to its ability to sense, interpret, communicate and actively conditions in relation to: building systems including energy grids), cupants.	v respond in	First SRI technical study for the EC: 2017,2018 Definition of the SRI and draft methodology. Intensive stakeholder consultation.	
The SRI rates the smart readi functionalities: • Optimise energy efficiency • Adapt their operation to th • Adapt to signals from the g	ness of buildings (or building units) in their capability to per and overall in-use performance, e needs of the occupant, rid (for example, energy flexibility).	form 3 key	Introduction 2018 Introduction of the SRI in the 2018 revision of the EPBD as an optional scheme.	

Figure 3: Home page

1. Click the button "Tutorials" to see an example first. (Figure 3-4)

Video Tutorials

anthermony a dama to a +	v - 0 X	
A DOWNORCH INCOMENTATION OF THE APPROXIMATION	2 8 0 8 1	
		How to create a new user
	SMĤRT®	1. To use the Smart^2 platform, creating an account is mandatory!
<b>— 3 —</b>	Welcome to Smart*2 platformi .4 Processprint processori and statilizations	2. You must have a valid <b>email address</b> to proceed.
SRI 75%	Linie yne wrait Honstein Propi Sanaet	3. Click the "Create an account" button to begin the creation process.
7 🤐 🏦	Terenser prevents & B	4. Follow the steps to "validate" your account.
How smart ready is your building? 😻	Spin n have an our phillion Common water.ed	Last updated 2 days ago
The one treatmost relation solicitation is a solid global specify the over multice in solit entry	e sorbiox	
The sear medicine information of galaxies and children and the search of	vrito × = 9 × + 2 € 2 € 1	
The section field of a section of a section of a section of the se	κατάν Η μ.	How to create a new Assessment
The second second second of a global second se	- < + 2 A + 2 € 3 € 1	How to create a new Assessment 1. From the home page, proceed to the "Assessment" and click on "Create new project"
		How to create a new Assessment 1. From the home page, proceed to the "Assessment" and click on "Create new project" 2. Begin by entering the required information, then click "Save" to proceed.
transmission white of globoxies shifty, satisfy and the sector sector stransmission of globoxies shifty and the sector sector & sector sector sector sector sector sector sector sector	Notice 2 → 2 → 2 → 2 → 2 → 2 → 2 → 2 → 2 → 2	How to create a new Assessment 1. From the home page, proceed to the "Assessment" and click on "Create new project" 2. Begin by entering the required information, then click "Save" to proceed. 3. Next, click the "Edit" button and choose the prefered "Method".
SRI 75%	Norman Contraction	How to create a new Assessment 1. From the home page, proceed to the "Assessment" and click on "Create new project" 2. Begin by entering the required information, then click "Save" to proceed. 3. Next, click the "Edit" button and choose the prefered "Method". 4. In the wizard form, choose the "functionality level" of the available smart services for domain you have selected, then click "Save".
tereneral de la defense de la	Normality and the second secon	How to create a new Assessment 1. From the home page, proceed to the "Assessment" and click on "Create new project" 2. Begin by entering the required information, then click "Save" to proceed. 3. Next, click the "Edit" button and choose the prefered "Method". 4. In the wizard form, choose the "functionality level" of the available smart services for domain you have selected, then click "Save". 5. Finally, the analytical results, including the "certificate", will be displayed.

Figure 4: Video tutorials



# 2. Creating a New Assessment

The simplified Method A was foreseen to be mainly oriented towards small buildings with low complexity (single-family homes, small multi-family homes, small non-residential buildings, etc.). Method A uses a reduced set of services, thus requiring less effort and expertise to conduct the assessment.

In contrast, the more detailed Method B is mainly oriented towards buildings with a higher complexity (typically large non-residential buildings, potentially large multi-family homes). Both methods have a similar structure.

#### 2.1 Procedure - Method A

- [1] From the home page, proceed to the **"Assessment"** tab and click on the first sub-tab labelled **"Create new project"** (See Figure 5).
- [2] Begin by entering the required information about the assessor, the building's general information, and the present domains, then click 'Save' to proceed. (See Figure 6).
- [3] Next, click the "Edit" button and choose "Method A". (See Figure 7 and Figure 8).
- [4] In the wizard form, choose the functionality level of the available smart services for each domain you have selected, then click **"Save"**. (See Figure 9 and Figure 10).
- [5] Finally, the analytical results, including the certificate, will be displayed (See Figure 11 Figure 17).

Note: To revisit the results any time, click "Project Database" under the "Assessment" tab, then select "Method A" from the "Results" section.







BUILDING'S NAME	<b>A</b>		ASSESOR NAME	۸	
ORGANISATION	a		DATE	dd/mm/yyyy	
EMAIL			TELEPHONE NUMBER	©.	
GENERAL BUILDING INFORMATI	ON				
BUILDING TYPE	Residential	~	BUILDING USAGE	residential - single-family house	~
LOCATION	Cyprus	~	NET FLOOR AREA OF THE BUILDING	<200 m2	~
YEAR OF CONSTRUCTION	<1960	~	BUILDING STATE	Original	~
BRIEF DESCRIPTION		i.	ADDRESS	B	
PREFERRED WEIGHTINGS	User defined	~	USER	afxentiounikolas@gmail.com	
DOMAINS PRESENT					
Heating			Domestic hot water		
Cooling			Ventilation		
Lighting			Dynamic building envelope		
Electricity			Electric vehicle charging		
Monitoring and control					

Figure 6: Input data

🙆 Home 🔲 Assessment 🗸 📑 Call Centre 🗸

O Create new project					
Database					
Show 10 entries				Search:	
Building's Name 💧	Assesor Name	User	Actions	♦ Results	
example-01_Method_A	Nikolas	afxentiounikolas@gmail.com	Edit Delete	MethodA Method	IB
Building's Name	Assesor Name	User	Acti	Results	
Showing 1 to 1 of 1 entries				Previous	Next

#### Figure 7: Edit button

ASSESSOR INFORMATION			
BUILDINGID	a example-01_validation	ASSESOR NAME	A Nikolas
ORGANISATION	FU	DATE	iii 06/02/2024 □
E-MAIL ADDRESS	D nikolas.654@hotmail.com	TELEPHONE NUMBER	S 97737777
GENERAL BUILDING INFORM	IATION		
BUILDING TYPE	non-residential ~	BUILDING USAGE	other 🗸
LOCATION	Cyprus 🗸	NET FLOOR AREA	1.000-10.000 m2 V
YEAR OF CONSRUCTION	<1960 ~	BUILDING STATE	Original V
BRIEF DESCRIPTION	p example	ADDRESS	Nikou Xilouri
PREFERRED WEIGHTINGS	Default ~	USER	afxentiounikolas@gmail.com
DOMAINS PRESENT			
🗹 Heating		Domestic Hot Water	
🗹 Cooling		Ventilation	
🗹 Lighting		Dynamic Envelope	
Electricity		Electric Vehicle Chargi	ing

Figure 8: Edit view - Method A



Method	Α		
01	Heating System Functionality level	BUILDING ID:	example-01_validation
	Domestic Hot Water Functionality level	Heating System	
*	Cooling System Functionality level	Functionality level details	
		HEATING EMISSION CONTROL	Individual room control (e.g thermostatic valves,electric controller) $\sim$
4	Ventilation Functionality level	STORAGE AND SHIFTING OF THERMAL ENERGY	None
		HEAT GENERATOR CONTROL (ALL EXCEPT HEAT PUMPS)	Constant temperature control
Q	Lighting Functionality level	HEAT GENERATOR CONTROL (FOR HEAT PUMPS)	Multi-stage control of heat generator capacity depending on the load or demand (e.g. on/off of several comp $\sim$
	<b>Dynamic Building Envelope</b> Functionality level	REPORT INFORMATION REGARDING HEATING SYSTEM PERFORMANCE	None   Next >
4	Electricity Functionality level		
<b>2</b> 3	Electric Vehicle Charging Functionality level		
	Monitoring and Control Functionality level		

Figure 9: Form wizard – input data

.nou /	<b>~</b>			
Q†	Heating System Functionality level	BUILDING ID:	example-01 validation	
	Domestic Hot Water Functionality level	Monitoring and Co		
*	Cooling System Functionality level	Functionality level det		
		CENTRAL REPORTING C		~
4	Ventilation Functionality level	SMART GRID INTEGRAT	Are you sure?	building is operated independently from the grid load $\sim$
<b>Ç</b>	<b>Lighting</b> Functionality level	SINGLE PLATFORM THA & COORDINATION BET ENERGY FLOW BASED C GRID SIGNALS	Do you want to save the changes?	· · · · · · · · · · · · · · · · · · ·
	Dynamic Building Envelope Functionality level	< Previous	Yes, save it! Cancel	Sav
4	Electricity Functionality level			
23	Electric Vehicle Charging Functionality level			
	Monitoring and Control Functionality level			

Figure 10: Save changes

#### 2.1.1 Result – Method A

After clicking **"Save"**, you will be redirected to the results page. There are two options for exporting the certificate: the **"Print"** button and the **"Send to Email"** button\*. To revisit the results at any time, click **"Project Database"** under the **"Assessment"** tab, then select **"Method A"** from the **"Results"** section. A variety of result types are displayed:

- [1] Certificate: the total SRI score and class.
- [2] Impact scores: are the impact scores for each criterion, considering domain weightings.
- [3] Domain scores: are the domain scores for each domain, considering impact weightings.
- [4] **Detailed scores:** are the detailed scores for each domain and each impact criterion, which results in a matrix for nine domains and seven criteria.
- [5] Aggregated scores: are the aggregated scores for three key functionalities.

\*Note: Allow pop-up windows to export Certificate, click again if needed. (Figure 16 and Figure 17)

sessment Report	Impact Scores	Domain Scores	Detailed Score	es Aggregated S	cores			
		SMAR	T READINES	SS INDICATO	R – CERTIF	ICATE		
BUILDING'S INFORM	ATION						🖨 Print 🛛 🖸 S	end to Email
BUILDING ID		ASSESOR NAME		DATE OF A	SSESSMENT	BU	ILDING TYPE	
example-01_Meth	od_A	Nikolas		22-02	-2024	r	non-residential	
		LOCATION		NET EL OO	ADEA	VE		
non-residential - o	ther	Cyprus	CVDrus		10.000 m2		(1960	
regated scores	6			SRI Sco	re			
Optimise energ in-use perform Adapt its opera occupant	y efficiency and o ance tion to the needs	overall s of the	12 %			G		
Adapt to signal flexibility)	s from the grid (e	energy	16 %		~	18 % ☆☆☆☆☆ <sup>G</sup> F E D		
	4	×	0°		~		Ψo	<b>*</b>
	Energy efficiency	Maintenance & fault prediction	Comfort	Convenience	Health & well-being	Information to occupants	Energy flexibility & storage	SRI
Total	24 %	0 %	38 %	18 %	80 %	4 %	16 %	18 %
<b>1</b> Heating	30 %	33 %	43 %	40 %	100 %	0 %	0 %	
DHW	20 %	25 %	0 %	20 %	0 %	0 %	0 %	
🔆 Cooling	12 %	0 %	14%	29 %	67 %	0 %	0 %	
Ventilation	0 %	0 %	0 %	0 %	0 %	0 %	0 %	
Lighting	67 %	0 %	100 %	100 %	0 %	0 %	0 %	
DE DE	0 %	0 %	0 %	0 %	0 %	0 %	0 %	
Electricity	0 %	0 %	0 %	0 %	0 %	0 %	11 %	
EV EV	0 %	0 %	0 %	0 %	0 %	0 %	0 %	
M&C	0 %	0 %	0 %	0 %	0 %	0 %	0 %	
	Funded by the ©E author(s) only and	uropean Union, under do not necessarily ref	the Grant Agreement lect those of the Europ	t Nº 101077241. Views bean Union or Europear	and opinions expres Climate, Infrastructu	sed are however those re and Environment Ex	e of the recutive	

SMM RT2

#### Figure 11: Certificate



Assessment Report	Impact Scores	Domain Scores	Detailed Score	s Aggregated	Scores					
Copy Excel Prin	nt									
IMPACT SCORES										
Energy efficiency								24	%	
Energy flexibility and s	torage							16	%	
Comfort								38	%	
Convenience								18	%	
Health, well-being and	accessibility							80	%	
Maintenance and fault	prediction							0	%	
Information to occupa	nts							4	%	
	Energy efficiency	Energy flexibility & storage	Comfort	Convenience	Health, well -being & accessibility 80%	Maintenance & fault prediction	Informa to occup	tion pants		
			38%							
	24%	16%		18%						
		1078				0%	4%			
			Im	pact Scores						
			Figure	<b>12:</b> Impact	Scores					
ssessment Report	Impact Scores	Domain Scores	Detailed Sco	ores Aggrega	ted Scores					
opy Excel Print										
DMAIN SCORES	-									
eating							3	1	%	

Domestic Hot Water									16	%
Cooling									11	%
Ventilation									0	%
Lighting									83	%
Dynamic Envelope									0	%
Electricity									1	%
Electric Vehicle Charging									0	%
Monitoring & Control									0	%
	Heating	DHW	Cooling	Ventilation	Lighting	DE	Electricity	EV	=	



Figure 13: Domain scores



Assessment Report

Impact Scores

Domain Scores Detailed Scores Aggregated Scores

Copy Excel Print							
DOMAINS	ENERGY EFFICIENCY	ENERGY FLEXIBILITY & STORAGE	COMFORT	CONVENIENCE	HEALTH & WELL-BEING	INFORMATION TO OCCUPANTS	MAINTENANCE & FAULT PREDICTION
<b>O</b> Heating	30 %	33 %	43 %	40 %	100 %	0 %	0 %
DHW	20 %	25 %	0 %	20 %	0 %	0 %	0 %
🏶 Cooling	12 %	0 %	14 %	29 %	67 %	0 %	0 %
Ventilation	0 %	0 %	0 %	0 %	0 %	0 %	0 %
<b>Q</b> Lighting	67 %	0 %	100 %	100 %	0 %	0 %	0 %
🔊 Dynamic Envelope	0 %	0 %	0 %	0 %	0 %	0 %	0 %
Electricity	0 %	0 %	0 %	0 %	0 %	0 %	11 %
J EV	0 %	0 %	0 %	0 %	0 %	0 %	0 %
M&C	0 %	0 %	0 %	0 %	0 %	0 %	0 %

#### Figure 14: Detailed scores

Assessment Report Impact Scores Domain Scores

Detailed Scores Aggregated Scores

Copy Excel Print						
	KEY FUNCTIONALITY	1 - BUILDING	KEY FUNCTIONAL	.ITY 2 - USER	KEY FUNCTIONA	.ITY 3 - GRID
Aggregated scores - main	12	%	35	%	16	%
Heating	15	%	46	%	33	%
Domestic Hot Water	10	%	10	%	25	%
Cooling	6	%	28	%	0	%
Controlled ventilation	0	%	0	%	0	%
Lighting	67	%	100	%	0	%
Dynamic Envelope	0	%	0	%	0	%
Electricity	0	%	6	%	0	%
Electric Vehicle Charging	0	%	0	%	0	%
Monitoring & Control	0	%	0	%	0	%

Figure 15: Aggregated scores



	SMART READINESS INDICATOR	- CERTIFICATE	
Save As			×
$\leftarrow \rightarrow \checkmark \uparrow$	⊥ > Downloads >	✓ ♂ Search Downloads	Q
Organise - New fol	der	≣ •	0
A Home	Name	Date modified	
K Gallery	Today     SMART2_User_Guide	22/2/2024 10:28 π.μ.	
🔙 Desktop 🛛 🖈	<ul> <li>Earlier this week</li> <li>certificate (9)</li> </ul>	20/2/2024 2:39 µ.µ.	
🛓 Downloads 🖈	certificate (8)	20/2/2024 2:34 μ.μ.	
🔄 Documents 🖈	certificate (7)	20/2/2024 2:33 µ.µ.	
🔀 Pictures 🛛 🖈	🚖 certificate (6)	20/2/2024 2:33 µ.µ.	
🚱 Music 🛛 🖈	🛃 certificate (5)	20/2/2024 2:25 µ.µ.	
🛂 Videos 🛛 🖈	A contificato (A)	20/2/2024 2:21	
File name: cer Save as type: Ado	tificate (10) be Acrobat Document		<u> </u>

*Figure 16: Export to pdf - pop-up window* 



Figure 17: Send to email – pop-up window



#### 2.2 Procedure - Method B

- [1] From the home page, proceed to the **"Assessment"** tab and click on the first sub-tab labelled **"Create new project"** (See Figure 18).
- [2] Begin by entering the required information about the assessor, the building's general information, and the present domains, then click **"Save"** to proceed. (See Figure 19).
- [3] Next, click the "Edit" button and choose "Method B". (See Figure 20 and Figure 21).
- [4] In the wizard form, choose the functionality level of the available smart services for each domain you have selected, then click **"Save"**. (See Figure 22 and Figure 23).
- [5] Finally, the analytical results including the certificate, will be displayed (See Figure 24 Figure 30).

Note: To revisit the results any time, click "Project Database" under the "Assessment" tab, then select "Method B" from the "Results" section.





			ASSESOR NAME	o	
BOILDING S NAME	<u>گا</u>		ASSESOR MAINE	Ă	
ORGANISATION	8		DATE	🖬 dd/mm/yyyy	
EMAIL			TELEPHONE NUMBER	G	
GENERAL BUILDING INFORM	ATION				
BUILDING TYPE	Residential	~	BUILDING USAGE	residential - single-family house 🗸 🗸	
LOCATION	Cyprus	~	NET FLOOR AREA OF THE BUILDING	<200 m2 V	
YEAR OF CONSTRUCTION	<1960	~	BUILDING STATE	Original ~	
BRIEF DESCRIPTION	P	li li	ADDRESS	B	
PREFERRED WEIGHTINGS	User defined	~	USER	afxentiounikolas@gmail.com	
DOMAINS PRESENT					
Heating			Domestic hot water		
Cooling			Ventilation		
Lighting			Dynamic building envelope		
Electricity			Electric vehicle charging		
Monitoring and control					
	Save	Back			

Figure 19: Input data

🙆 Home 🛛 🖳 Assessment 🗸 📑 Call Centre 🗸

Create new project					
Database					
Show 10 entries				Search:	
Building's Name	Assesor Name	User	Actions	Results	
example-01_Method_A	Nikolas	afxentiounikolas@gmail.com	Edit Delete	MethodA MethodB	)
Building's Name	Assesor Name	User	Act	Results	
Showing 1 to 1 of 1 entries				Previous	Next

#### Figure 20: Edit button

ASSESSOR INFORMATION			
BUILDINGID	a example-01_validation	ASSESOR NAME	A Nikolas
ORGANISATION	🛙 FU	DATE	₿ 06/02/2024
E-MAIL ADDRESS	☑ nikolas.654@hotmail.com	TELEPHONE NUMBER	§ 97737777
GENERAL BUILDING INFORM	IATION		
BUILDING TYPE	non-residential V	BUILDING USAGE	other v
LOCATION	Cyprus ~	NET FLOOR AREA	1.000-10.000 m2 V
YEAR OF CONSRUCTION	<1960 ~	BUILDING STATE	Original ~
BRIEF DESCRIPTION	example	ADDRESS	Nikou Xilouri
PREFERRED WEIGHTINGS	Default 🗸	USER	afxentiounikolas@gmail.com
DOMAINS PRESENT			
✓ Heating		Domestic Hot Water	
🗹 Cooling		Ventilation	
Lighting		Dynamic Envelope	
Electricity		Electric Vehicle Chargir	ng

Figure 21: Edit view - Method B



Method	В		
<b>Ot</b>	Heating System Functionality level	BUILDING ID:	example-01_validation
•	Domestic Hot Water Functionality level	Heating System	
*	Cooling System Functionality level	Functionality level details	
		HEATING EMISSION CONTROL	No automatic control
4	Ventilation	EMISSION CONTROL FOR TABS (HEATING MODE)	No automatic control
	ranononany torot	STORAGE AND SHIFTING OF THERMAL ENERGY	None
Q	Lighting Functionality level	CONTROL OF DISTRIBUTION PUMPS IN NETWORKS	No automatic control
	Dynamic Building Envelope	THERMAL ENERGY STORAGE (TES) FOR BUILDING HEATING (EXCLUDING TABS)	Continuous storage operation
<b>*</b>	Functionality level	HEAT GENERATOR CONTROL (ALL EXCEPT HEAT PUMPS)	Constant temperature control
	Electricity	HEAT GENERATOR CONTROL (FOR HEAT PUMPS)	On/Off-control of heat generator
	Functionality level	SEQUENCING IN CASE OF DIFFERENT HEAT GENERATORS	Priorities only based on running time
	Electric Vehicle Charging Functionality level	REPORT INFORMATION REGARDING HEATING SYSTEM PERFORMANCE	None
	Monitoring and Control	FLEXIBILITY AND GRID INTERACTION	No automatic control
	Functionality level	< Previous	Next >

*Figure 22:* Form wizard – input data

ethod	В			
<u></u>	Heating System Functionality level	BUILDING ID:	example-01_validation	
	Domestic Hot Water Functionality level	Monitoring and Control		_
*	Cooling System Functionality level	Functionality level det		
4	Ventilation Functionality level	RUN TIME MANAGEMEN DETECTING FAULTS OF AND PROVIDING SUPPO THESE FAULTS	$\checkmark$	
<b>Q</b>	<b>Lighting</b> Functionality level	OCCUPANCY DETECTIO	Are vou sure?	
	Dynamic Building Envelope Functionality level	CENTRAL REPORTING C ENERGY USE SMART GRID INTEGRAT	Do you want to save the changes?	uilding is operated independently from the grid load
4	Electricity Functionality level	REPORTING INFORMAT MANAGEMENT PERFOR	Yes, save it! Cancel	
27	Electric Vehicle Charging Functionality level	OVERRIDE OF DSM CON SINGLE PLATFORM THAT ALLOWS CONTROL & COORDINATION BET	S AUTOMATED None WEEN TBS AND	
	Monitoring and Control Functionality level	OPTIMIZATION OF ENERGY FLOW OCCUPANCY, WEATHER AND GRID Previous	/ BASED ON D SIGNALS	Save

Figure 23: Save changes



#### 2.2.1 Result – Method B

After clicking **"Save"**, you will be redirected to the results page. There are two options for exporting the certificate: the **"Print"** button and the **"Send to Email"** button\*. To revisit the results at any time, click **"Project Database"** under the **"Assessment"** tab, then select **"Method B"** from the **"Results"** section. A variety of result types are displayed:

- [1] **Certificate:** the total SRI score and class.
- [2] Impact scores: are the impact scores for each criterion, considering domain weightings.
- [3] Domain scores: are the domain scores for each domain, considering impact weightings.
- [4] **Detailed scores:** are the detailed scores for each domain and each impact criterion, which results in a matrix for nine domains and seven criteria.
- [5] Aggregated scores: are the aggregated scores for three key functionalities.

\*Note: Allow pop-up windows to export Certificate, click again if needed. (Figure 29 and Figure 30)

		SMAR	T READINES	55 INDICATO	R – CERTIFI	ICATE		
UILDING'S INFOR	MATION					(	🖨 Print 🛛 S	iend to Email
UILDING ID		ASSESOR NAME		DATE OF A	SSESSMENT	BI	UILDING TYPE	
example-02_Met	thod_B	Nicholas		22-02	2024		non-residential	
UILDING USAGE		LOCATION		NET FLOO	RAREA	YE	EAR OF CONSRUCTION	
residential - othe	ſ	Cyprus		1.000	10.000 m2		<1960	
regated scor	es rgy efficiency and	overall	8.04	SRI Sco	re			
Adapt its ope occupant	ration to the need	Is of the	24%			G		
Adapt to sign flexibility)	als from the grid (	energy	2 %			<b>9%</b> ☆☆☆☆ <sub>G</sub> F E D	С В А	
	+	*	0°	2	\$		₩0	<b>.</b>
	<b>F</b> nergy efficiency	Maintenance & fault prediction	<b>Comfort</b>	Convenience	Health & well-being	Information to occupants	Energy flexibility & storage	sri
Total	Finergy efficiency 17 %	Maintenance & fault prediction	Comfort 26 %	Convenience	Health & well-being	Information to occupants 3%	Energy flexibility & storage 2 %	sri 9 %
Total }↑ Heating	۲ Energy efficiency 17 %	Maintenance & fault prediction 0 %	Comfort 26 %	Convenience 14% 27%	Health & well-being 55 %	Information to occupants 3% 0%	Energy flexibility & storage 2 % 0 %	SRI 9 %
Total	#           Energy efficiency           17 %           19 %           9 %	Maintenance & fault prediction 0% 0% 11%	Comfort 26 % 25 %	Convenience 14 % 27 % 14 %	Health & well-being 55 % 60 %	Information to occupants 3% 0%	Energy flexibility & storage 2% 0%	<b>№</b> SRI 9 %
Total	#           Energy efficiency           17 %           19 %           9 %           15 %	Maintenance & fault prediction 0% 11% 0%	Comfort 26 % 25 % 0 % 20 %	Convenience 14 % 27 % 14 % 27 %	••• Health & well-being 55 % 60 %	Information to occupants 3% 0% 0%	Energy flexibility & storage 2% 0% 0%	<b>№</b> SRI 9 %
Total Total Heating DHW Cooling Ventilation	#           Energy efficiency           17 %           9 %           15 %           0 %	Maintenance & fault prediction 0% 11% 0%	Comfort 26 % 25 % 0 % 20 %	Convenience 27 % 14 % 27 % 0 %	••• Health & well-being 55 % 60 % 60 % 60 %	Information to occupants 3% 0% 0% 0%	Energy flexibility & storage 2% 0% 0% 0%	\$₽ \$RI 9 %
Total Total Heating DHW Cooling Ventilation Uighting	#           Energy efficiency           17 %           19 %           15 %           0 %           50 %	Maintenance & fault prediction 0% 11% 0% 0%	Comfort 26 % 25 % 0 % 20 % 0 %	Convenience 27% 14% 27% 14% 0% 60%	*** Health & well-being 55 % 60 % 0 % 0 %	Information to occupants 3% 0% 0% 0% 0% 0%	Energy flexibility & storage 2 % 0 % 0 % 0 % 0 %	\$€ SRI 9 %
Total Total Heating DHW Cooling Ventilation Uighting DE	*           Energy efficiency           17 %           19 %           15 %           0 %           50 %           0 %	Maintenance & fault prediction           0%	Comfort 26 % 25 % 0 % 20 % 0 %	Convenience 27% 14% 27% 0% 0%	Health & well-being 55 % 60 % 0 % 0 % 0 % 0 %	Information     to occupants     3 %     0 %     0 %     0 %     0 %     0 %     0 %     0 %     0 %     0 %		SRI 9 %
Total Total Total Total Total Total Units Lighting Lighti	*           Energy efficiency           17 %           19 %           15 %           0 %           50 %           0 %           20 %	Maintenance & fault prediction           0%	Comfort 25 % 25 % 20 % 20 % 20 % 20 %	Convenience Convenience 14 % 27 % 14 % 27 % 0 % 0 %	Health & well-being 55 % 60 % 0 % 0 % 0 %	Information to occupants     3 %     0 %     0 %     0 %     0 %     0 %     0 %     0 %     0 %     17 %		SRI 9 %
Total Total Heating DHW Cooling Ventilation Lighting Ligh	*           Energy efficiency           17 %           19 %           9 %           0 %           0 %           0 %           20 %           0 %	Maintenance & fault prediction           0%	Comfort 25 % 25 % 0 % 20 % 0 % 0 % 0 % 0 % 0 %	Convenience Convenience 14 % 27 % 14 % 27 % 0 % 0 % 0 % 0 %	Health & well-being 55 % 60 % 0 % 0 % 0 % 0 % 0 %	Information to occupants     3%     0%     0%     0%     0%     0%     0%     0%     17%     0%		\$
Total  Total  Heating DHW  Cooling  Ventilation  Lighting  Electricity  K Ev M&C	*           Energy efficiency           17 %           19 %           9 %           15 %           0 %           50 %           0 %           20 %           0 %           0 %	Maintenance & fauit prediction           0%	Comfort 26 % 25 % 0 % 20 % 0 % 0 % 0 % 0 % 0 % 0 %	Convenience Convenience 14% 27% 14% 27% 0% 0% 0% 0% 0% 0%	Health & well-being 55 % 60 % 0 %	Information to occupants     3%     0%     0%     0%     0%     0%     0%     17%     0%		\$₽ SRI 9%

SMM IRT2

Figure 24: Certificate



Assessment Report Impact Scores Domain Scores Detailed Scores Aggregated Score	3	
Copy Excel Print		
IMPACT SCORES		
Energy efficiency	17 %	
Energy flexibility and storage	2 %	
Comfort	26 %	
Convenience	14 %	
Health, well-being and accessibility	55 %	
Maintenance and fault prediction	0 %	
Information to occupants	3 %	



#### Figure 25: Impact Scores

Assessment Report	Impact Scores	Domain Scores	Detailed Scores	Aggreg	gated Scores				
Copy Excel Print									
DOMAIN SCORES									
Heating								12	%
Domestic Hot Water								8	%
Cooling								11	%
Ventilation								0	%
Lighting								55	%
Dynamic Envelope								0	%
Electricity								9	%
Electric Vehicle Charging								0	%
Monitoring & Control								0	%
	Heating	DHW Coolin	g Ventilation	Lighting	DE	Electricity	EV	=	
				55%					
	12%								
	14.70	8%				9%			
			0%		0%		0%	0%	
			Dom	ain Score	95				

Figure 26: Domain scores

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SM	<b>IRT</b> <sup>2</sup>
<u> </u>	

Assessment Report	Impact Scores	Domain Score	s Detailed Sc	ores A	ggregated Scores			
Copy Excel Print								
DOMAINS	ENE	RGY FL IENCY	ENERGY EXIBILITY & STORAGE	COMFORT	CONVENIENCE	HEALTH & WELL-BEING	INFORMATION TO OCCUPANTS	MAINTENANCE & FAULT PREDICTION
Iteating	19	9 %	0 %	25 %	27 %	60 %	0 %	0 %
DHW	9	%	11 %	0 %	14 %	0 %	0 %	0 %
🗱 Cooling	15	5 %	0 %	20 %	27 %	60 %	0 %	0 %
Ventilation	0	%	0 %	0 %	0 %	0 %	0 %	0 %
<b>Q</b> Lighting	50	) %	0 %	60 %	60 %	0 %	0 %	0 %
📌 Dynamic Envelope	0	%	0 %	0 %	0 %	0 %	0 %	0 %
<b>4</b> Electricity	20	) %	0 %	0 %	0 %	0 %	17 %	11 %
EV EV	0	%	0 %	0 %	0 %	0 %	0 %	0 %
M&C	0	%	0 %	0 %	0 %	0 %	0 %	0 %

## Figure 27: Detailed scores

Assessment Report	Impact Scores	Domain Scores	Detailed Scores	Aggregated Scores			
Copy Excel Print							
	I	KEY FUNCTIONALITY	L-BUILDING	KEY FUNCTIONAL	ITY 2 - USER	KEY FUNCTIONAL	ITY 3 - GRID
Aggregated scores - main		8	%	24	%	2	%
Heating		10	%	28	%	0	%
Domestic Hot Water		4	%	7	%	11	%
Cooling		8	%	27	%	0	%
Controlled ventilation		0	%	0	%	0	%
Lighting		50	%	60	%	0	%
Dynamic Envelope		0	%	0	%	0	%
Electricity		18	%	6	%	0	%
Electric Vehicle Charging		0	%	0	%	0	%
Monitoring & Control		0	%	0	%	0	%

Figure 28: Aggregated scores



	SMART READINESS INDICATOR	- CERTIFICATE	
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🛂 Videos 🛛 🖈	A contificato (A)	20/2/2024 2:21	
File name: cer Save as type: Ado	tificate (10) be Acrobat Document		<u> </u>

*Figure 29: Export to pdf - pop-up window* 



Figure 30: Send to email – pop-up window



# 3. Call Centre

The Simplified Method takes an even more streamlined approach than Method A, featuring an oversimplified service catalogue. It adopts a checklist approach, enabling users to quickly navigate the assessment. This method is designed to be exceptionally time-efficient, with the evaluation taking less than 10 minutes. Additionally, it supports self-assessment, allowing individuals to conduct the assessment independently without needing expert guidance.

#### 3.1 Procedure

- [1] From the home page, proceed to the Call Centre and click on the first sub-tab labelled "**Create a new project**". (See Figure 31).
- [2] Complete the questionnaire provided and then click on "**Submit**" to proceed. (See Figure 32 and Figure 33).
- [3] Finally, click the "**Report**" button within the table to view the certificate and all analytical results. (See Figure 34).





SRI Call Centre - Questionnaire		
1. Building Information		~
BUILDING ID	E-MAIL ADDRESS	
Building type:		
RESIDENTIAL	NON RESIDENTIAL	
Location:		
	WEST EUROPE	
SOUTH EUROPE	NORTH-EAST EUROPE	
SOUTH-EAST EUROPE		
Are the following technical building systems present in your b	uilding?	
HEATING	DOMESTIC HOT WATER	
COOLING	VENTILATION	
	DYNAMIC ENVELOPE	
ELECTRICITY	ELECTRIC VEHICLE CHARGING	
MONITORING AND CONTROL		
2. How is the heating system in your building currently contro      No AUTOMATIC CONTROL      NOTIFICIAL ROOM CONTROL      INDIVIDUAL ROOM CONTROL      INDIVIDUAL ROOM CONTROL	Iled? Please select the most appropriate option from the following CENTRAL AUTOMATIC CONTROL  INDIVIDUAL ROOM CONTROL WITH COMMUN	
3. How do you currently control your heat generator or heating	g system, and do you have any hot water storage in place?	~
		HW STORAGE VESSELS CONTROLLED BY EXTERNAL SIGNALS (BACS OR G
CONTROL OF HEAT GENERATOR CAPACITY BASED ON LOAD AND GRID SIGNALS		AUTOMATIC CHARGING CONTROL BASED ON LOCAL RENEWABLES OR GF
•		•
4. How do you receive performance reports for your heating s	ystem? Please select the most appropriate option from the follow	ing list: >
5. How do you control your domestic hot water system? Please	e select the most suitable option:	>
6. How do you receive reports on your domestic hot water sys	tem's performance? Please select the most suitable option:	>
7. How is your cooling system controlled? Please select the mo	ost suitable option:	>
8. How do you control your cooling system's production? Pleas	se select the most suitable option:	>
9. How do you receive reports on your cooling system's perform	mance and its grid integration? Please select one option for coolir	ig system and one for the grid. $>$
10. How do you control your ventilation system, and what kind	of ventilation reporting or information do you get? Please select of	one option for the control and one for the report: >

Figure 32: Questionnaire



11. How do you control your lighting? Please select the most suitable option:		~
MANUAL ON/OFF SWITCH	MANUAL ON/OFF SWITCH WITH SWEEPING SIGNAL	
AUTOMATIC DETECTION (AUTO ON/DIMMED OR AUTO OFF)	AUTOMATIC DETECTION (MANUAL ON/DIMMED OR AUTO OFF)	
12. How do you control your windows and shading? Please select the most suitable option:		>
13. How do you receive reports on your building envelope's performance and monitoring? P	lease select the most suitable option:	>
14. How do you receive reports on electricity in your building, including generation, consur	nption, and storage? Please select the most suitable option for each one:	>
15. How do you manage electricity storage in your building? Please select the most suitable	e option:	>
16. What is the electric vehicle charging capacity in your building? Please select the most s	uitable option:	>
17. How do you manage electric vehicle charging information and connectivity in your build	ing? Please select the most suitable option for each one:	>
18. How do you receive central reporting for your building's energy use? Please select the n	nost suitable option	>
19. How do you integrate your building with the smart grid for energy management? Please	select the most suitable option:	>
20. Do you have a platform for automated control of your building systems (TBS)? Please so	elect the most suitable option:	>
Submit Back		

#### Figure 33: Questionnaire (cont.)

🙆 Home 🛛 🛄 Assessment 🗸 📑 Call Centre 🗸

Create new project			
Database			
Show 10 entries			Search:
Building Id	Location	Actions	🔶 Results 🔶
example-01_validation	South Europe	Edit Delete	Report
example-02		Edit Delete	Report
Building Id	Location	Actions	Results
Showing 1 to 2 of 2 entries			Previous 1 Next

Figure 34: Results button

#### 3.1.1 Results

After clicking **"Save"** you will be redirected to the **"Project Database"** page. Click **"Report"** button under **"Results"** tab. There are two options for exporting the certificate: the **"Print"** button and the **"Send to Email"** button\*. To revisit the results at any time, click **"Project Database"** under the **"Call Centre"** tab, then select **"Report"** from the **"Results"** section. A variety of result types are displayed:

- [1] Certificate: the total SRI score, considering domain weightings and impact weightings.
- [2] Impact scores are the impact scores for each criterion, considering domain weightings.
- [3] Domain scores: the domain scores for each domain, considering impact weightings.
- [4] **Detailed scores:** the detailed scores for each domain and each impact criterion, which results in a matrix for nine domains and seven criteria.
- [5] Aggregated scores: the aggregated scores for three key functionalities.

\*Note: Allow pop-up windows to export Certificate, click again if needed. (Figure 40 and Figure 41)

		SMAR	RT READINE	SS INDICATO	DR - CERTIF	ICATE		
BUILDING'S INFOR	RMATION							
BUILDING ID			DATE OF ASSESSMEN	Т		E-MAIL ADDRESS		
example-01_val	Idation		14-02-2024			atxentiounikolas	s@gmail.com	
5		ĊŢĴ		₩0				
Optimise ener and overall in-us	gy efficiency e performance	Adapt its op the needs of th	eration to ne occupant	Adapt to sigr the grid (energ	nals from y flexibility)			
							G	
10	%	35 %	6	15 %	b		17%	
						*	* * * *	* *
	4	×	0°	<b>_</b>	\$	8	₩ø	<b>*</b>
	Energy efficiency	Maintenance & fault prediction	Comfort	Convenience	Health & well-being	Information to occupants	Energy flexibility & storage	SRI
Total	20 %	0 %	38 %	18 %	80 %	4 %	15 %	17 %
Of Heating	30 %	33 %	43 %	40 %	100 %	0 %	0 %	
DHW	20 %	25 %	0 %	20 %	0 %	0 %	0 %	
* Cooling	12 %	0 %	14 %	29 %	67 %	0 %	0 %	
<b>Ventilation</b>	0 %	0 %	0 %	0 %	0 %	0 %	0 %	
C Lighting	67 %	0 %	100 %	100 %	0 %	0 %	0 %	
DE DE	0 %	0 %	0 %	0 %	0 %	0 %	0 %	
<b>4</b> Electricity	0 %	0 %	0 %	0 %	0 %	0 %	11 %	
<b>D</b> #	O %	0 %	0 %	0 %	0 %	0 %	0 %	
Y EV			0.%	0.%	0.%	0 %	0 %	

SMMRT<sup>2</sup>

Figure 35: Certificate



Copy Excel Print		
IMPACT SCORES		
Energy efficiency	55	%
Energy flexibility and storage	33	%
Comfort	71	%
Convenience	57	%
Health, well-being and accessibility	75	%
Maintenance and fault prediction	0	%
Information to occupants	0	%





Excel Print Сору DOMAIN SCORES Heating 51 % DHW 0 % 45 Cooling % Ventilation 0 % 0 % Lighting Dynamic Envelope 0 % 0 % Electricity EV 0 % Monitoring & Control 0 % M&C DHW Cooling DE ΕV Heating Ventilation Lighting Electricity



Domain Scores Figure 37: Domain scores



Assessment Report Impact S

1111000 00010

Impact Scores Domain Scores Detailed Scores Aggregated Scores

Copy Excel Print							
DOMAINS	ENERGY EFFICIENCY	ENERGY FLEXIBILITY & STORAGE	COMFORT	CONVENIENCE	HEALTH & WELL-BEING	INFORMATION TO OCCUPANTS	MAINTENANCE & FAULT PREDICTION
It Heating	40 %	33 %	57 %	43 %	100 %	0 %	0 %
они они	0 %	0 %	0 %	0 %	0 %	0 %	0 %
* Cooling	33 %	0 %	50 %	33 %	50 %	0 %	0 %
Sentilation	0 %	0 %	0 %	0 %	0 %	0 %	0 %
<b>Q</b> Lighting	0 %	0 %	0 %	0 %	0 %	0 %	0 %
Dynamic Envelope	0 %	0 %	0 %	0 %	0 %	0 %	0 %
Electricity	0 %	0 %	0 %	0 %	0 %	0 %	0 %
EV EV	0 %	0 %	0 %	0 %	0 %	0 %	0 %
M&C	0 %	0 %	0 %	0 %	0 %	0 %	0 %

#### Figure 38: Detailed scores

Assessment Report

Detailed Scores Aggregated Scores

Domain Scores

Impact Scores

Copy Excel Print						
	KEY FUNCTIONALITY	1 - BUILDING	KEY FUNCTIONAL	ITY 2 - USER	KEY FUNCTIONAL	ITY 3 - GRID
Aggregated scores - main	28	%	51	%	33	%
Heating	40	%	73	%	33	%
Domestic Hot Water	0	%	0	%	0	%
Cooling	33	%	46	%	0	%
Controlled ventilation	0	%	0	%	0	%
Lighting	0	%	0	%	0	%
Dynamic Envelope	0	%	0	%	0	%
Electricity	0	%	0	%	0	%
Electric Vehicle Charging	0	%	0	%	0	%
Monitoring & Control	0	%	0	%	0	%

Figure 39: Aggregated scores



								û Alert	
	MART REA	DINESS	INDICAT	OR - CER	TIFICATE			Email succesfully sent!	
Building Id example 01_validation	Date of assessm 22:02:2024	ent	Email a afxentic	ddress unikolas@gmail.co	om				
Aggregated scores Optimise energy efficiency and overall in-use performance	C	<b>10</b> %	SRI	Score					
Adapt its operation to the needs of the occupant	C	35 %			G				
Adapt to signals from the grid (energy flexibility)	C	15 %		☆ ダ G F	1/% ≿☆☆ ⊧ ⊧ □	р ☆ ☆ ☆ с в а			
+	*	0°	<b>e</b> .	۵		₩o	<b>\$</b>		
Energy efficiency	Maintenance & fault prediction	Comfort	Convenience	Health & well-being	Information to occupants	Energy flexibility & storage	SRI		

Figure 40: Export to pdf - pop-up window

	SMART READINESS INDICATOR	CERTIFICATE	
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rganise • New f	older	≣ •	0
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🔙 Desktop 🛛 🖈	<ul> <li>Earlier this week</li> <li>Certificate (9)</li> </ul>	20/2/2024 2:39 µ.µ.	
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File name: Save as type: A	ertificate (10) dobe Acrobat Document		<u> </u>

Figure 41: Send to email – pop-up window