



Webinar | Investment aid for the installation of self-consumption photovoltaic power plants

21 September 2023 | 10:30-12:00



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de l'Économie



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de l'Énergie et de
l'Aménagement du territoire



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AGENDA

- 1. INVESTMENT AID FOR THE INSTALLATION OF SELF-CONSUMPTION PHOTOVOLTAIC POWER PLANTS**
- 2. MODALITIES OF THE CALL FOR PROJECTS**
- 3. MYGUICHET PROCEDURE**
- 4. QUESTIONS & ANSWERS**



**INVESTMENT AID FOR THE INSTALLATION OF
SELF-CONSUMPTION PHOTOVOLTAIC POWER PLANTS**

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INVESTMENT AID FOR PV POWER PLANTS

CONTEXT – GENERAL INFORMATION

- « **Solidaritéitspak 2.0** » concluded after the **Tripartite** of 20th September 2022
- **Success of the 1st call for projects** (1st November 2022 to 28th February 2023); result.
- Realisation and exploitation of power plants for the production of electricity from solar photovoltaic energy
 - installed on the **outer shells of buildings**, in **ZAE areas** or as **shading devices (carports)**, and
 - intended **primarily for own consumption** of the electricity produced
- **Legal persons** who
 - are established in **Luxembourg**,
 - are engaged in an **economic activity as their main occupation**,
 - **invest** in solar photovoltaic power plants, and
 - meet the **general conditions** (e.g. authorization, state aid) that apply in this matter
- Maximum budget **20 million €**
- Submission of bids from **15th July 2023 to 31st October 2023**



INVESTMENT AID FOR PV POWER PLANTS

ADDITIONAL INFORMATION

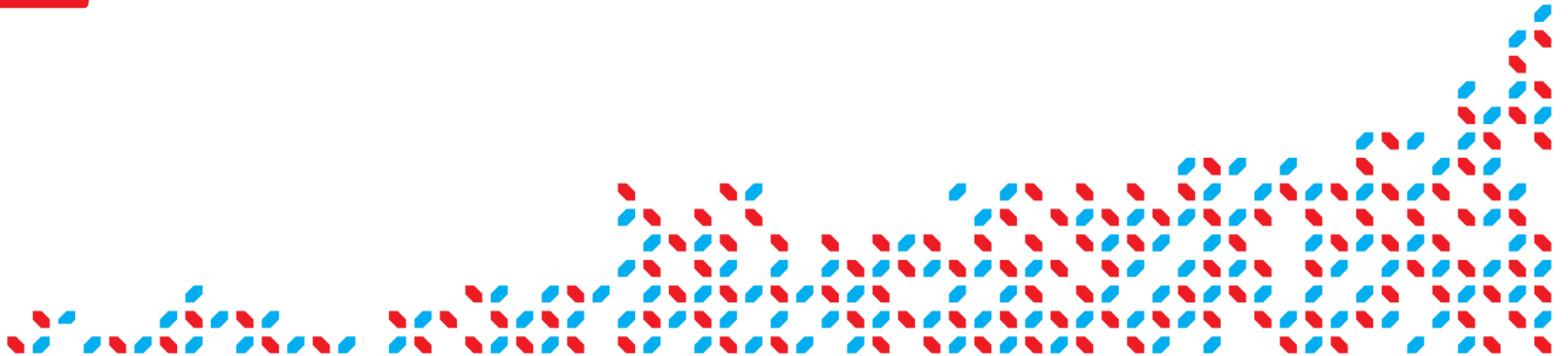
- Allocation of aid following a **competitive procedure**
- Granting **decision** latest 3 months after the deadline for the submission of offers (31st October 2023)
- Accumulation** with other state aids **excluded**:
 - call for tenders to award a **market premium** (MEA/Department of Energy)
 - temporary environmental impact aid** (SME aid schemes)
- Information on **Guichet.lu**:

Investment aid for the construction and operation of solar photovoltaic power plants following a call for projects



MODALITIES OF THE CALL FOR PROJECTS

2



SUBJECT OF THE CALL FOR PROJECTS

ELIGIBLE INSTALLATIONS

- Only outer shells of buildings (**roofs and facades**), **ZAE areas** and **shading devices (carports)**
- **Allowable costs :**
 - Purchase and installation of electrical equipment (photovoltaic modules, inverters, cabling, junction boxes)
 - Storage with a capacity of no more than 1 kWh per 1 kWp of the plant
 - Setting up of the connection (connection costs, transformer, civil engineering works)
 - Engineering and development costs
 - Structural elements / tracker for ZAE areas and shading devices (carports)



SUBJECT OF THE CALL FOR PROJECTS

ELIGIBLE INSTALLATIONS

Four different **lots**

- Lot 1 : Outer shells of buildings and/or ZAE areas : > 30 kWp and ≤ 200 kWp
- Lot 2 : Outer shells of buildings and/or ZAE areas : > 200 kWp and ≤ 500 kWp
- Lot 3 : Outer shells of buildings and/or ZAE areas : > 500 kWp and ≤ 5 MWp
- Lot 4 : Shading devices (carports): > 30 kWp et ≤ 5 MWp

■ **Budget** to be allocated : Lot 1 : 3 million €, Lot 2 : 3 million €, Lot 3 : 10 million €, Lot 4 : 4 million €

■ **Deadline for completion** : within 18 months after the allocation

■ After the allocation :

- **No financial performance guarantee**
- **Applications for any required authorizations** of the power plants
- Submission of the **connection request** (recommendation: request of the pre-analysis of connection at GRD before the submission of the file)



PROJECT SELECTION

Ranking

- By ascending **reference aid €/kWc** ;
- In case of equality of reference aid, by ascending **power output** ;
- In case of equality of reference aid and the power output, by a **lottery** between the ex-æquo files;
- **Competitiveness clause** in case of under-subscription ;
- Per lot, **max. 40% of the budget** can be awarded to a single economic entity (group) ;

Maximum aid intensities and amount of financial aid

Lots	Max intensities (%)	Max amounts (€/kWp)
Lot 1 : Outer shells of buildings and/or ZAE areas : > 30 kWp and ≤ 200 kWp	55	745
Lot 2 : Outer shells of buildings and/or ZAE areas : > 200 kWp and ≤ 500 kWp	50	565
Lot 3 : Outer shells of buildings and/or ZAE areas : > 500 kWp and ≤ 5 MWp	45	480
Lot 4 : Shading devices (carports) : > 30 kWp and ≤ 5 MWp	40	745

Investment aid

- Payment of the aid after installation and **submission of the invoices**
- Intensities and amounts mentioned in the decision **cannot be exceeded**



PROJECT SELECTION

EXAMPLE

Submitted bids Lot 3 (fictive projects)

Power output [kWp]	Total cost of the project [€]	Amount of the aid requested [€]	Intensity of the aid requested [%]	Reference aid [€/kWp]
700	3 000 000	1 200 000	40	1 714.29
700	3 000 000	240 000	8	342.86
900	833 333.33	250 000	30	277.78
900	500 000	300 000	60	333.33
800	720 000	216 000	30	270
600	416 670	166 668	40	277.78
750	712 500	299 250	42	399



PROJECT SELECTION

EXAMPLE

Ranking established by the Ministries after the deadline for submission of bids

Under-subscription: at least 10 % of the submitted eligible offers are eliminated

Power output [kWp]	Total costs of the project [€]	Amount of the aid requested [€]	Intensity of the aid requested [%]	Reference aid [€/kWp]
800	720 000	216 000	30	270
600	416 670	166 668	40	277.78
900	833 333.33	250 000	30	277.78
700	3 000 000	240 000	8	342.86
750	712 500	299 250	42	399
700	3 000 000	1 200 000	40	1 714.29
900	500 000	300 000	60	333.33



SELF-CONSUMPTION

- Very large diversity of possible situations
- The call for projects allows the different options foreseen in the electricity market law (LoiE):
 - Individual self-consumption
 - Joint self-consumption (in one building)
 - Consumption of shared energy as a member of an Energy community
 - Consumption after conclusion of a Power Purchase Agreement (PPA)
- Any **excess electricity** can be sold on the market
- Before submitting: contact electricity suppliers for information on the value of the excess electricity injected in the grid
- IMPORTANT: as a self-consumer, your **customer/consumer profile** changes – contact your electricity supplier to evaluate the possible impact on your existing and future supply contracts



SELF-CONSUMPTION

- LoiE offers different options of self-consuming and/or sharing electricity
- Joint self-consumption:** sharing electricity in one building; the owner of the PV can't be an undertaking whose primary commercial or professional activity is the supply or production of electricity
- Power Purchase Agreement (PPA):** via a third party which is an electricity supplier unless the producer requests a supply license; if in one building behind one connexion point: no grid fees
- Energy community:** a specific legal person needs to be set up; large companies (non-SME) excluded from membership; sharing possible on national level; no grid fees for connexion points in low-voltage-grid in a radius of 300 m
- Lot 4, **carports combined with EV-charging-points:** the charging service is not considered as an electricity sale; the charging points can self-consume the electricity produced by the carport



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MYGUICHET PROCEDURE



SUBMISSION OF OFFERS

PROCEDURE

- Supporting document and submission **via MyGuichet**
- Support provided by **LuxInnovation** aides@luxinnovation.lu
- **One application per installation site and per plant**
- Application to be filed **before the start of the project** (1st binding commitment)
- An **undertaking in difficulty** is not eligible



Myguichet – Business eSpace Support — Guichet.lu

MyGuichet.lu

Lea Guichet Help Log off

Select an eSpace

FR DE EN

Manage my eSpaces

Private eSpaces

Create your private eSpace for your personal administrative procedures. [More information](#)

Create my private eSpace

Your private eSpace already exists. You can only have one private eSpace.

Business eSpaces

Create your business eSpace on MyGuichet and invite other users to join while you remain the administrator of the eSpace. [More information](#)

Create a business eSpace

Business eSpace

1

Procedure – MECO: Financial aid application for companies

MECO: Financial aid application for companies ↻

Create ...



MYGUICHET PROCEDURE

STEPS OF THE PROCEDURE

- Identity of the applicant
- Information on the applicant business
- Group
- Size of the applicant business/Size of the group
- Financial position
- Project summary with start and end dates
- Scheme**
- Costs**
- Form of aid sought
- Project (pre)financing plan
- Supporting documents**
- Declaration of honour
- Validation

Information on the business

Type of business

What type of business is this?*

- Legal person *
- Natural person

Identity of the business

Business name - company name*

National identification number*

Legal form*

Number in the Trade and Companies Register*

VAT number

NACE code of the main activity*

Overview of the activities

MyGuichet.lu



MYGUICHET PROCEDURE

SCHEME – CHOICE OF AID

Scheme

For more information, please review the summary table of types of aid..

Based on your statements, your business, including the group it belongs to, constitutes a **company**.

If you believe this information is incorrect, please enter the information in the 'size of the business' section.

Please select the aid scheme

- PME - Small and medium-sized enterprise *
- RDI - Research, development and innovation
- ENV - Environmental protection
- REG - Regional

ENV Scheme

Choice of aid

For more information, please review the summary table of types of aid.

Please select the type of aid sought

- ENV-NOR - Investment enabling businesses to exceed EU environmental protection standards in the absence of such standards
- ENV-AAN - Early adaptations to future EU standards
- ENV-MEE - Investment in energy efficiency measures
- ENV-CHR - Investment in high-yield cogeneration
- ENV-ESR - Investment in the production of energy from renewable energy sources
- ENV-ASC - Investment in the remediation of contaminated sites
- ENV-RCF - Investment in the district heating or cooling distribution network
- ENV-RRD - Investment in the recycling or re-use of waste
- ENV-IEN - Investment in energy infrastructure
- ENV-EEN - Environmental studies

ENV-ESR

Is your request for financial aid subject to the « Photovoltaic » call for projects?

- Yes *
- No

Yes



MYGUICHET PROCEDURE

COSTS

Machinery and equipment

	Maximum aid intensity [%]	Maximum amount of aid [€/kWp]
Lot 1	55	745
Lot 2	50	565
Lot 3	45	480
Lot 4	40	745

Type of cost* *

Description of the cost

Cost in EUR excl. VAT* *

Renewable energy production (kWh)*

Installed power (kWp)*

Summary of costs and aid application

Total cost for the type of aid (EUR)

Aid intensity sought (%)*

Maximum aid amount calculated (EUR)

Amount of aid sought (EUR)* *

Ratio "Requested aid / kWp"

Automatic calculation

The amount of aid sought and the maximum aid amount calculated as indicated in the fields above have to be identical.
The aid intensity sought (%) must not exceed the maximal allowable aid intensity (%) for the specific lot of the call for projects.
The ratio „Requested aid/kWp” must not exceed the maximal allowable amount of aid (€/kWp) for the specific lot of the call for projects (see [specifications of the call for projects](#)).



MYGUICHET PROCEDURE

SUPPORTING DOCUMENTS

What?	How?
Power of attorney to complete the procedure (if applicable)	PDF, Office
Organisation chart	PDF, Office
2022 annual financial statements (applicant business and group)	PDF
Bank account identification document (RIB)	PDF
Joint Social Security Centre (CCSS) certificate (number of employees)	PDF
Site use right certificate	PDF
Offer / Price quotation (if available)	PDF
Annual financial statements (BS + PL) of the applicant business	EXCEL template provided
Annual financial statements (BS + PL) of the group	EXCEL template provided
Company size	EXCEL template provided
Description of the project	EXCEL template provided



MYGUICHET PROCEDURE

SUPPORTING DOCUMENTS – ZIP

Guichet.lu

Forms / Online services

Only in FR



Démarche de demande d'aide en faveur des entreprises

Protection des données

MyGuichet.lu

Accéder à la démarche

Only in FR



Description du projet modèles Excel

Protection des données

Télécharger le formulaire
ZIP, 2.93 Mb

ZIP with 4 excel templates



MYGUICHET PROCEDURE

SUPPORTING DOCUMENTS – ZIP – EXCEL << DESCRIPTION OF THE PROJECT >>

Information about the installation																			
<p>Note: Please complete the fields highlighted in yellow</p> <p>Note: Please select the most appropriate option in the fields highlighted in light yellow</p>																			
General information																			
Name of the beneficiary (investor)																			
Type of consumption																			
Is the beneficiary the consumer?																			
Name(s) of the consumer(s)																			
Description of the consumption																			
Project specific information																			
Year of project implementation (year of first binding engagement)																			
Estimated commissioning date																			
Application lot	na - installation too small																		
Address of the installation																			
Place of installation (cadastral number)																			
Site Use Right Certificate attached as 'Other Item' to the myguichet application																			
Type of installation	<input type="checkbox"/> Wind <input type="checkbox"/> Solar <input type="checkbox"/> Biomass (20) <input type="checkbox"/> Other	na	kWh																
Size of the installation		na	kWh																
Project description																			
Installed capacity (Peak)		0.00	kWh																
Theoretical annual production capacity of the new plant			kWh																
Storage	<input type="checkbox"/> Storage system	na	kWh ok																
Autoconsumption			kWh																
Reinjection			kWh																
Annual electricity consumption			kWh																
Price of the installation (excl. VAT)			€																
Amount of aid requested (excl. VAT)		0	€ nok																
<p>This amount has to be equal to the installed capacity as indicated in the MyGuichet.lu application.</p>																			
<p>This amount has to be equal to the amount of aid sought indicated in the MyGuichet.lu application.</p>																			
<table border="1"> <thead> <tr> <th></th> <th>Maximum aid intensity [%]</th> <th>Maximum amount of aid [€/kWp]</th> </tr> </thead> <tbody> <tr> <td>Lot 1</td> <td>55</td> <td>745</td> </tr> <tr> <td>Lot 2</td> <td>50</td> <td>565</td> </tr> <tr> <td>Lot 3</td> <td>45</td> <td>480</td> </tr> <tr> <td>Lot 4</td> <td>40</td> <td>745</td> </tr> </tbody> </table>					Maximum aid intensity [%]	Maximum amount of aid [€/kWp]	Lot 1	55	745	Lot 2	50	565	Lot 3	45	480	Lot 4	40	745	
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Autocost rate	/	%																	
Reinjection rate	/	% nok																	
Project cost details																			
Description of the project costs (excl. VAT)	Cost category	Cost details	Cost [€]	Supplier															
			0																

nok



MYGUICHET PROCEDURE

SUPPORTING DOCUMENTS – ZIP – EXCEL << DESCRIPTION OF THE PROJECT >>

Simplified business plan

Explanations:

Note: Please complete the fields highlighted in yellow

- 1) Estimate of electricity savings due to autoconsumption
 - Indicate the annual avoided electricity purchase costs over a 15-year period in €/MWh
 - Indicate the annual production in kWh used for autoconsumption
- 2) Estimated revenue from direct sales (if re-injected or if the beneficiary is not the consumer)
 - Indicate the annual selling price of the electricity produced over a period of 15 years in €/MWh
 - Indicate the annual production in kWh used for reinjection or sale to a consumer
- 3) Estimated operating costs for the operation of the PV installation over a 15-year period

Year	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Estimated electricity cost [€/MWh] (Purchase)																
Production autoconsumption [kWh]																
Electricity savings ("Revenue") [€/year]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Estimated electricity price [€/MWh] (Sale)																
Production reinjection [kWh]																
Income from direct sales ("Revenues") [€/year]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Operating expenses ("Costs") [€/year]																

You are strongly encouraged to contact your electricity supplier to negotiate the options before the submission.



USEFUL LINKS

Useful links

- <https://guichet.public.lu/en/entreprises/financement-aides/aides-environnement/production-energie/production-electricite-energies-renouvelables.html>
- <https://guichet.public.lu/en/entreprises/financement-aides/aides-environnement/appel-projets-photovoltaique/appel-photovoltaique-aides-investissements.html>
- <https://www.klima-agence.lu/en/call-projects-benefit-investment-aid-self-consumption-photovoltaic-electricity-companies>
- <https://www.luxinnovation.lu/event/investment-aid-for-the-installation-of-self-consumption-photovoltaic-power-plants/>
- <https://www.klimapaktfirbetriber.lu/webinaire-aides-centrales-photovoltaiques/>

Register of planners at Klima-Agence

- <https://www.klima-agence.lu/en/business/accompanying-you/photovoltaics/large-scale-photovoltaic-project-planners>

Useful documentation from ILR

- <https://assets.ilr.lu/energie/Documents/ILRLU-1685561960-1117.pdf> (texte coordonné inofficiel de la LoiE)
- <https://assets.ilr.lu/energie/Documents/ILRLU-1685561960-927.pdf>
- <https://assets.ilr.lu/energie/Documents/ILRLU-1685561960-925.pdf>
- <https://legilux.public.lu/eli/etat/leg/rilr/2021/09/20/a689/jo>



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QUESTIONS & ANSWERS

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