

# New photovoltaic tenders, sales on the market and prosumer development

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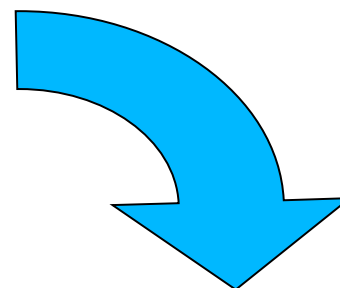
**Direction générale de l'énergie et  
du climat**



# Photovoltaic tenders: what's new ?

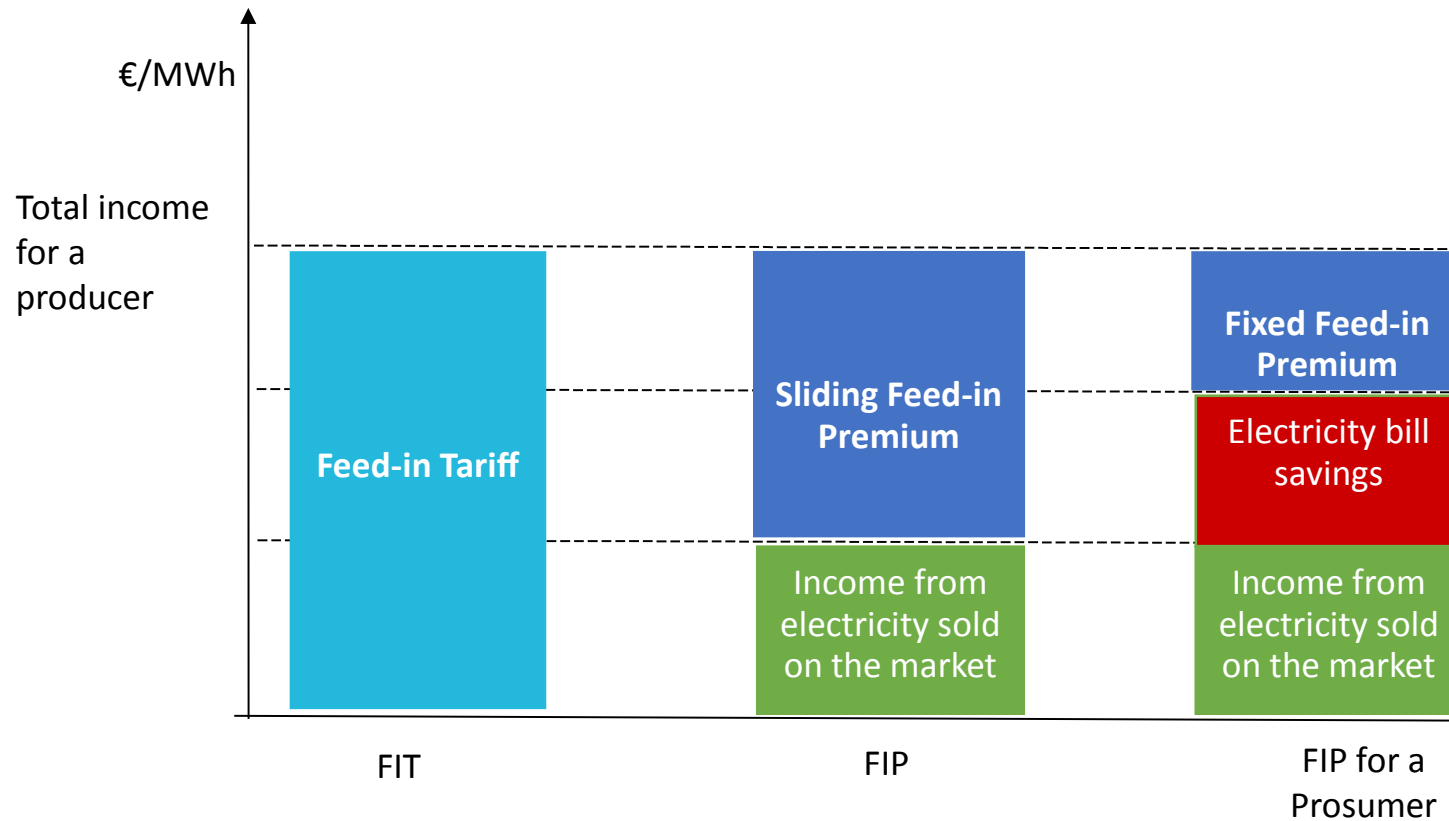
FIT : Feed-in Tariff  
FIP : Feed-in Premium

Former Mechanism		
	Rooftop	Ground
100 – 250 kWc	Simplified Tender (120 MW and 240 MW) FIT	
250 – 500 kWc	Ordinary Tender – Families 1 and 3 (200 MW) FIT	
500 kWc – 3.5 MWc		Ordinary Tender – Family 2 (200 and 600 MW) FIT
3.5 – 12 MWc		



New Mechanism			
	Rooftop	Ground	Self-Consumption
100 – 250 kWc	« Rooftop » Tender (450 MW)  FIT		« Self-Consumption » Tender (150 MW)  FIP
250 – 500 kWc			
500 kWc – 8 MWc	FIP	« Ground » Tender (1000 MW) FIP	
8 – 17 MWc			

# Photovoltaic tenders: new financial support

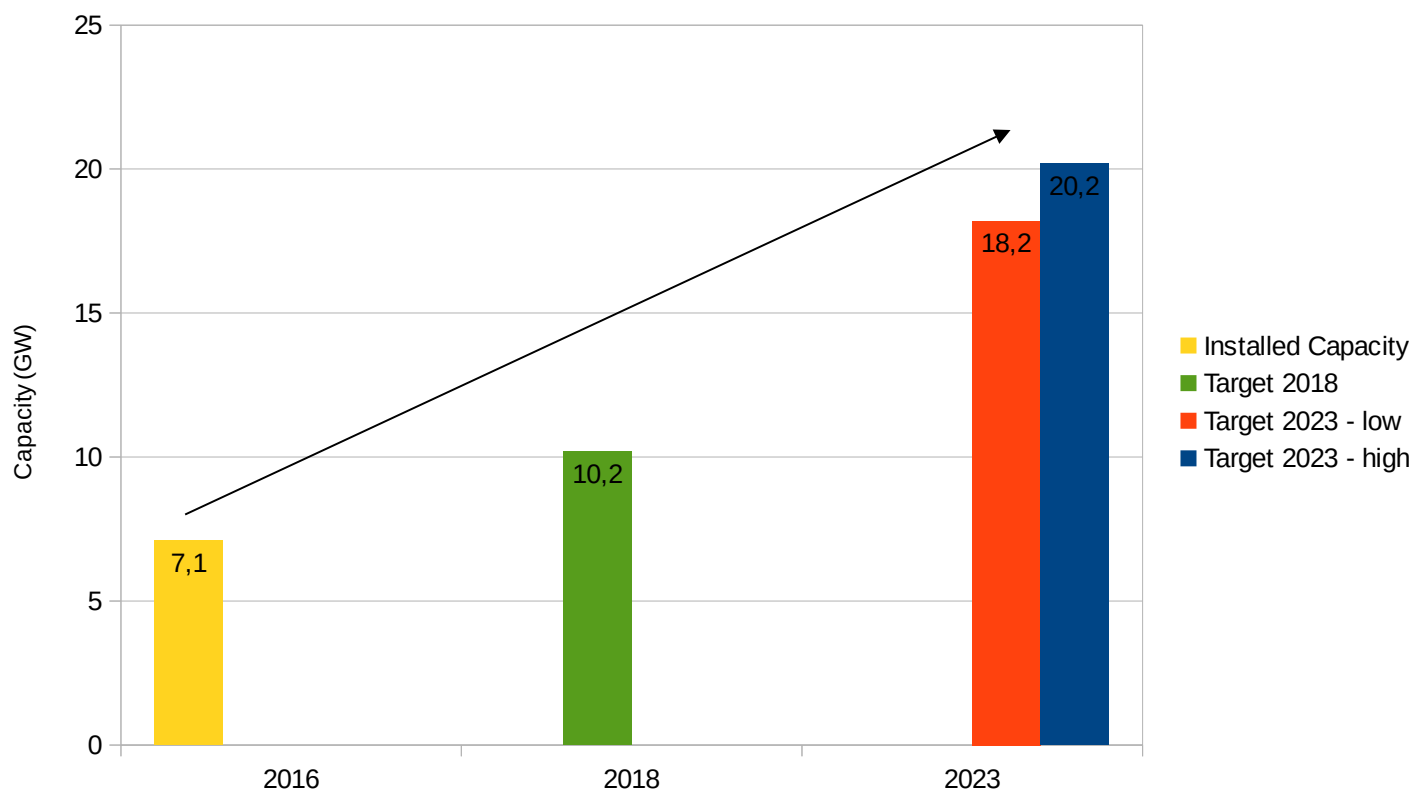


# Specificities of the PV Tenders



# Photovoltaic tenders: multi-annual scope

- **December 2016: new objectives for PV adopted in the PPE.**
- **2016/2017 : launch of series of tenders, spanning 3 years each.**
- **Multi-annual tenders help meeting goals and provide visibility.**



# Photovoltaic tenders: eligibility criteria

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- **Power limitations:** depending on each family.
- **Installation's novelty:** work on the project has not started yet prior to the tender (european guidelines, incentive effect).
- **Implantation conditions** (only for « ground » tender):

**1st case:** field registered as « urbanized » or « to urbanize ».

**2nd case:** field registered in a natural zone where renewable energies can be developed.

**3rd case (environmental bonus):** degraded land (landfills, industrial brownfield, polluted area, water body, etc.)

# Photovoltaic tenders: ranking

Criteria	Maximum Score		
	Ground Tender	Rooftop Tender	Self-consumption Tender
Price	70	70	100
Carbon impact	21	30	-
Environmental Bonus	9	-	-
TOTAL	100	100	100

Eligibility criteria for the « self-consumption » tender :  
→ Carbon impact < 750 kgCO<sub>2</sub>/kWc.

# Photovoltaic tenders: ranking

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➤ **Price:** 
$$NP = NP_0 \times \frac{P_{sup} - P}{P_{sup} - P_{inf}}$$

With  $NP_0 = 70$

$$P_{sup} = [110 - 150] \text{ €/MWh}$$

$$P_{inf} = [50 - 95] \text{ €/MWh}$$

➤ **Carbon Impact:** 
$$NC = NC_0 \times \left[ \frac{ECS_{sup} - ECS}{ECS_{sup} - ECS_{inf}} \right]$$

With  $NC_0 = 30$

$$ECS_{sup} = 700 \text{ kgCO}_2/\text{kWc}$$

$$ECS_{inf} = 100 \text{ kgCO}_2/\text{kWc}$$

*ECS stands for « Simplified Carbon Evaluation ». The method is described in the tender documentation. It has to be delivered by an accredited organism.*



# Photovoltaic tenders: crowdfunding

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- A 3 €/MWh bonus is available for candidates engaged in crowdfunding:

40 % of the capital

Held by at least a territorial authority or 20 different people

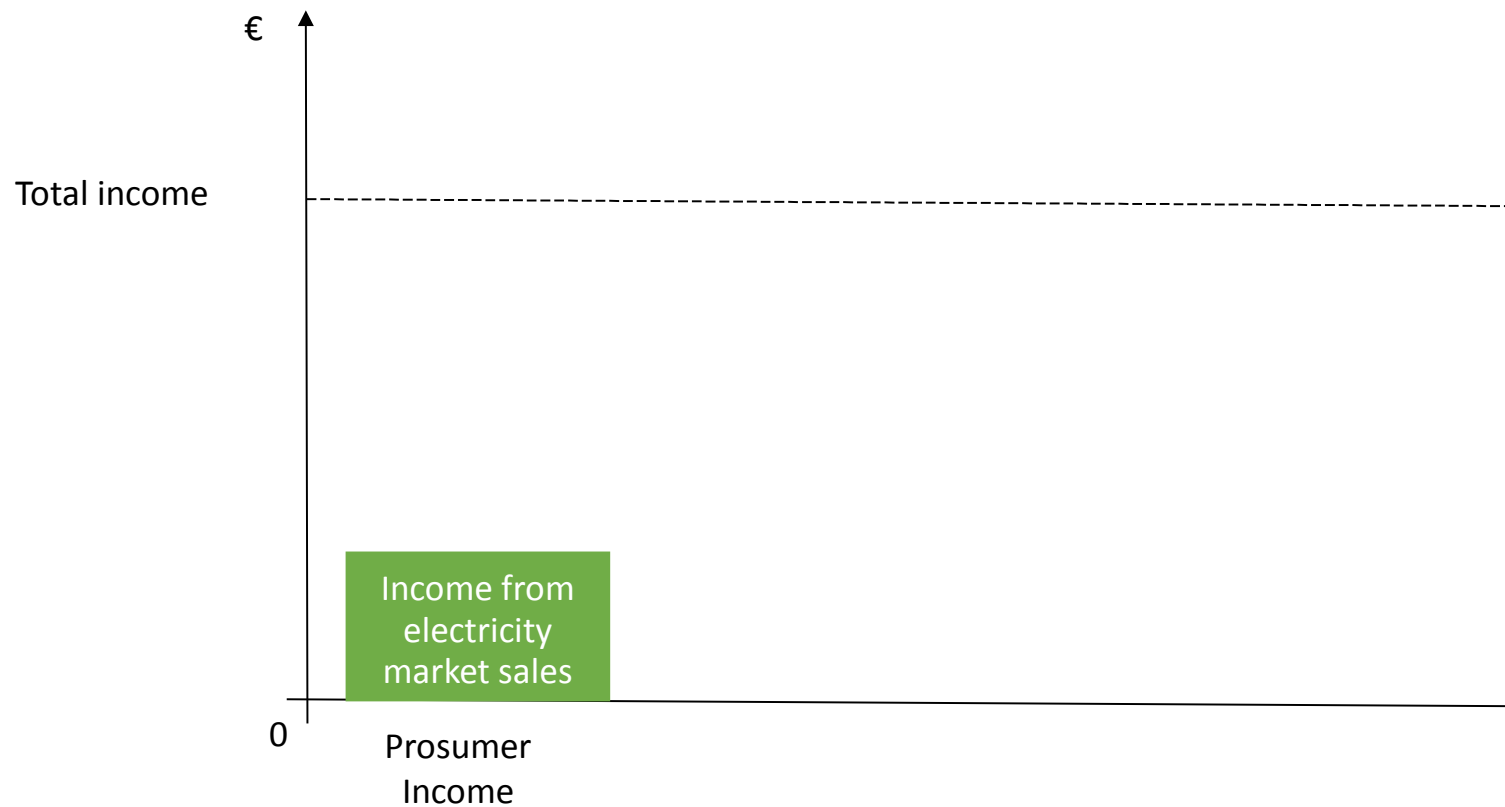
Living in the State Department (or in a bordering Department) of implantation of the project

- If the commitment is not fulfilled (3 conditions), a penalty of -3 €/MWh is applied.

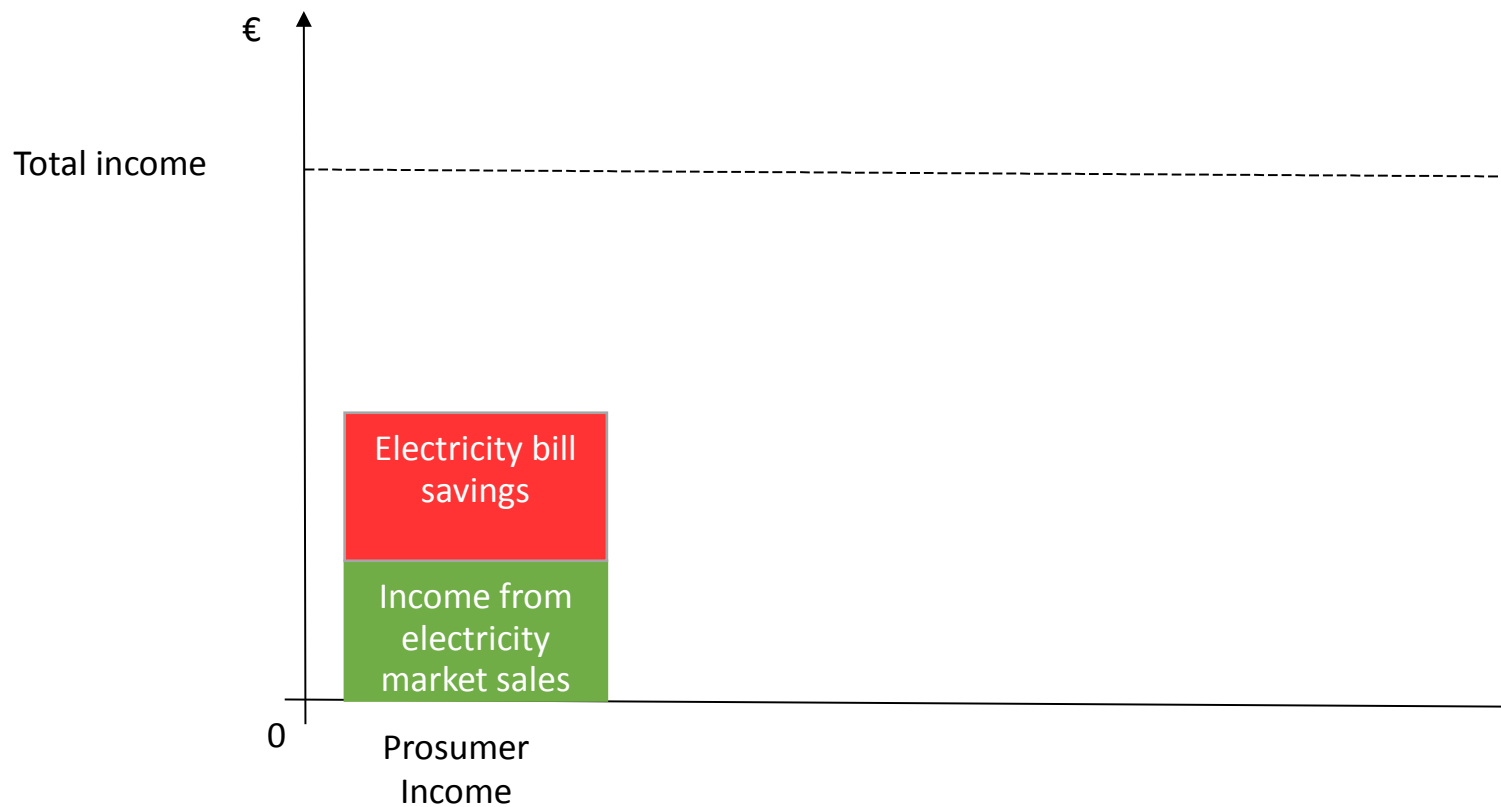
# How to calculate a Feed-in Premium for a Prosumer ?



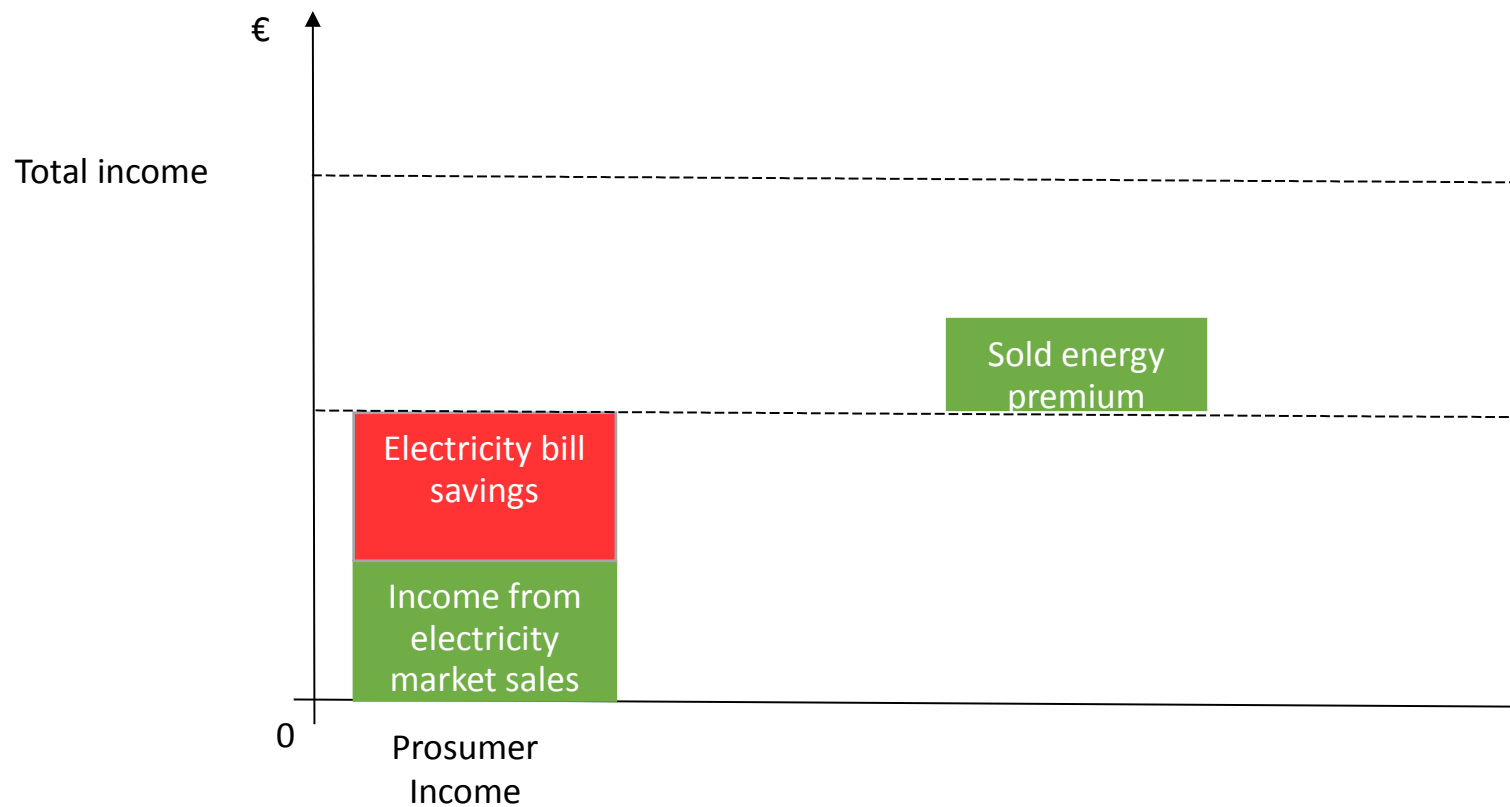
# Feed-in Premium – the prosumer case



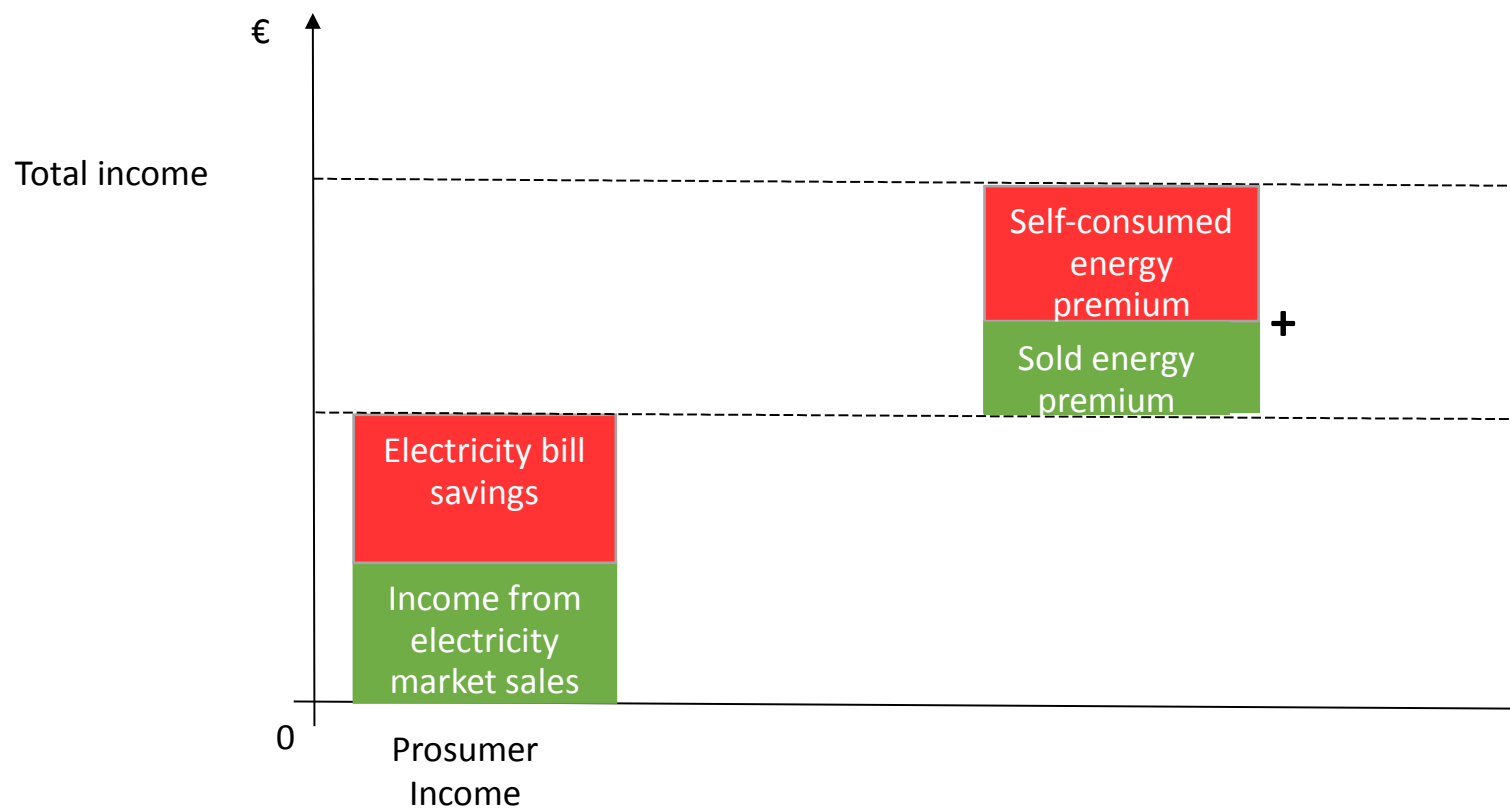
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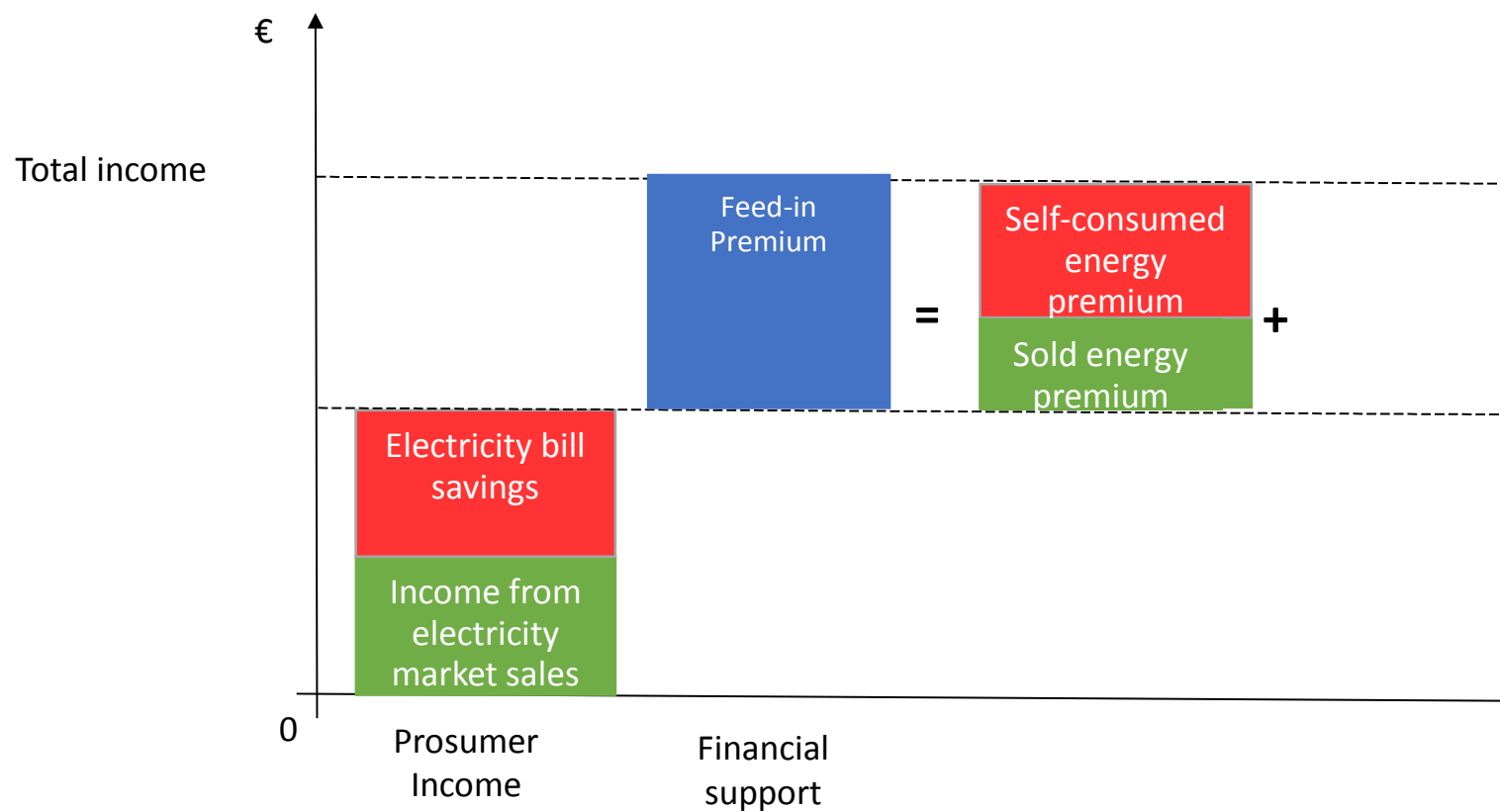
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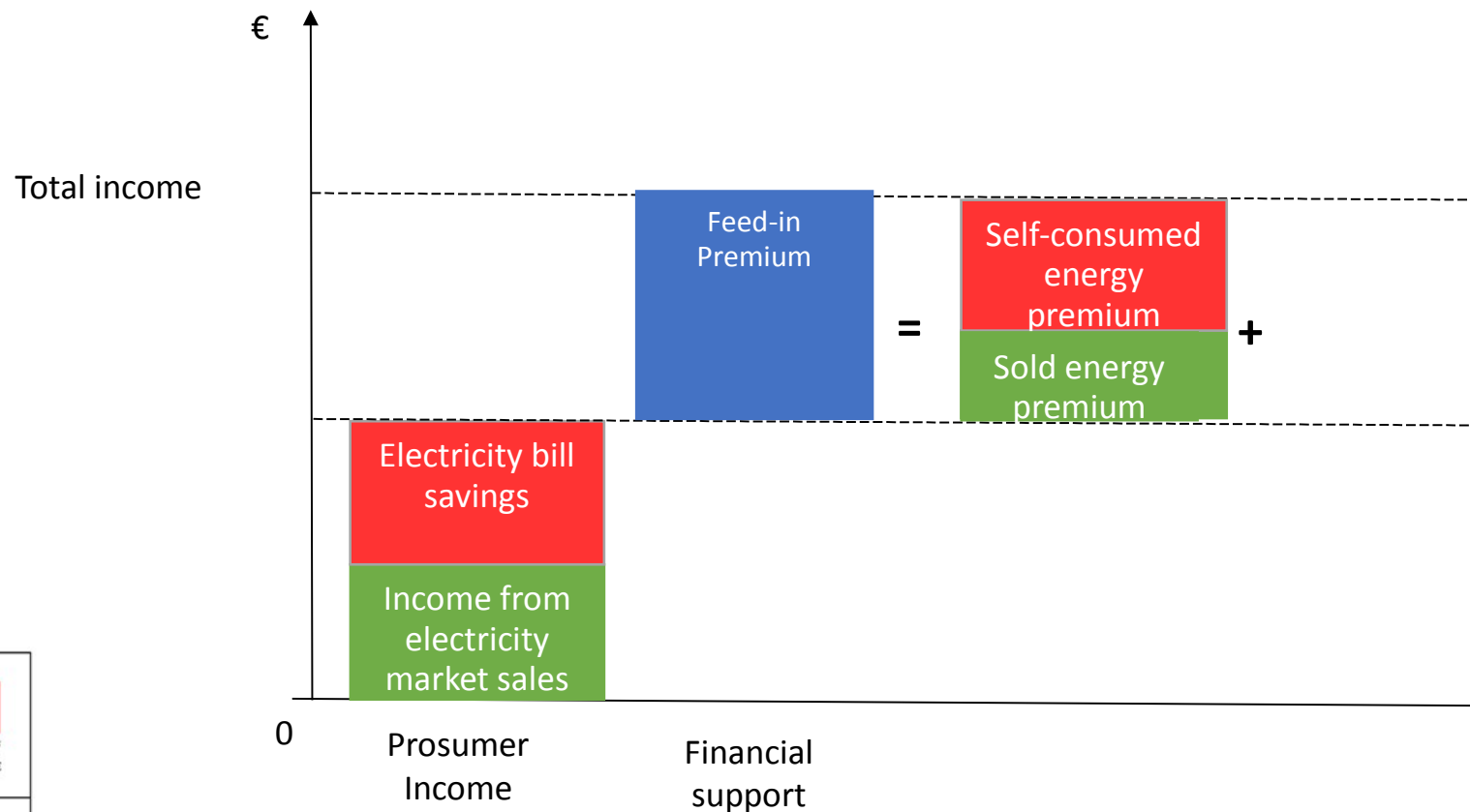


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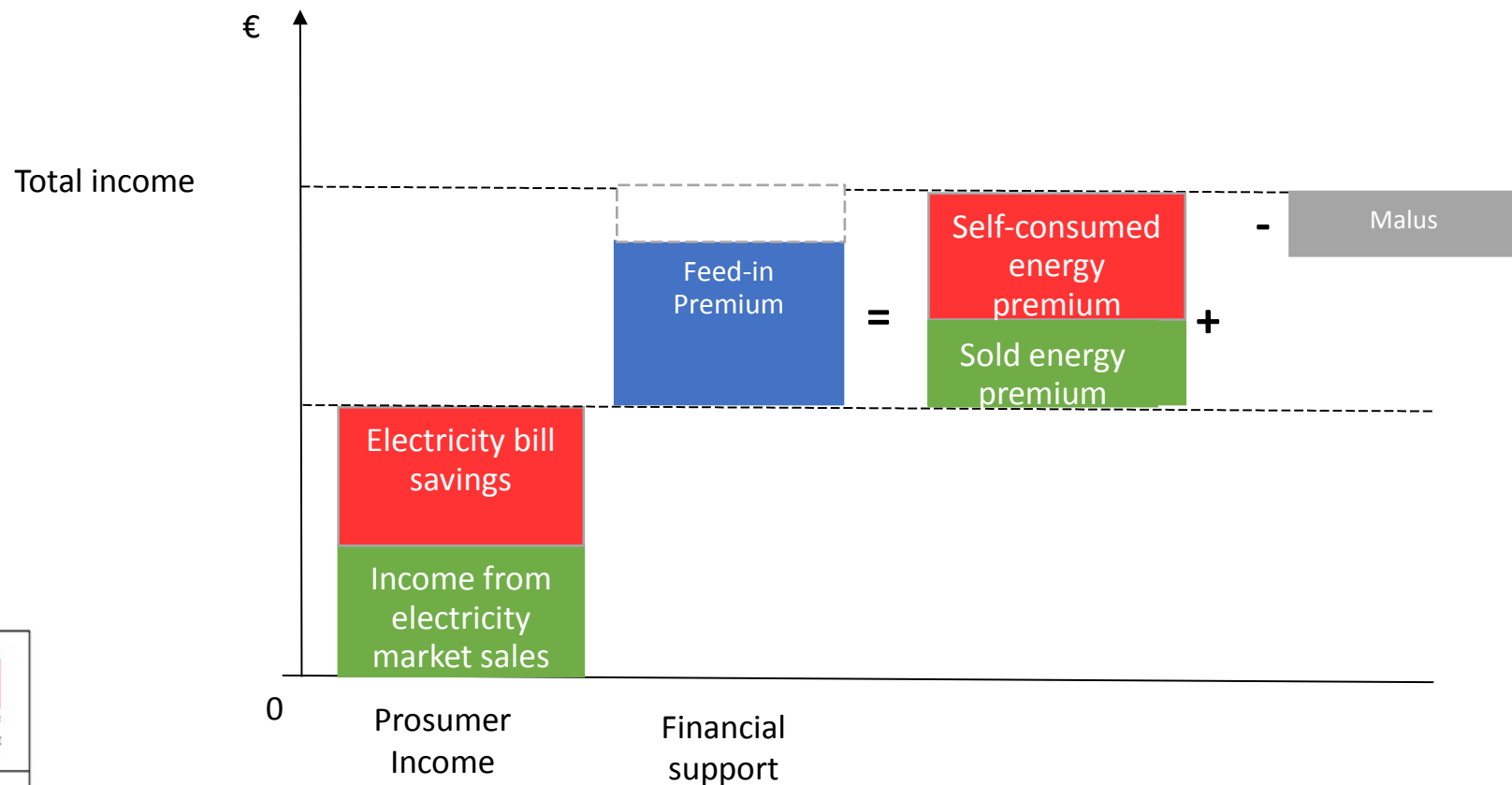
- The FIP is obtained by adding an « **energy premium for electricity sold on the market (or to a tierce person)** » and an « **energy premium for self-consumed electricity** » with a greater valorisation (incentive to self-consume).





# Feed-in Premium – the prosumer case

- Potential deductions on the FIP :
  - Malus proportional to Pmax injected on the grid.
  - Malus if self-consumption < 50 %



# Feedbacks from first rounds



# Photovoltaic tenders 1st rounds

## ✓ « Ground » tender: 1st round

	Family 1 5 – 17 MWc	Family 2 < 5 MWc	Family 3 Parking shelters
Price (€/MWh)	62,5	68,1	105,6
Crowdfunding	60 % of the projects		
Degraded land	90 % of the projects		

## ✓ « Self-consumption » tender: 1st and 2nd rounds

	1st round	2nd round
Prime (€/MWh)	40,88	19,35
Self-Consumption Rate	97 %	

# Any Questions ?

