



Intracting for energy savings

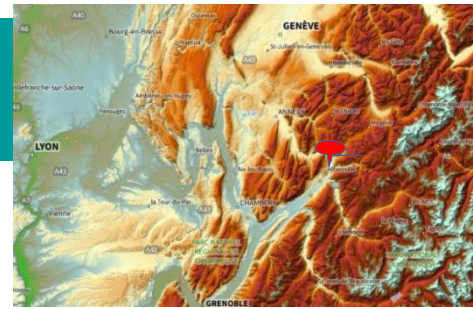
Own revolving funds



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Albertville city



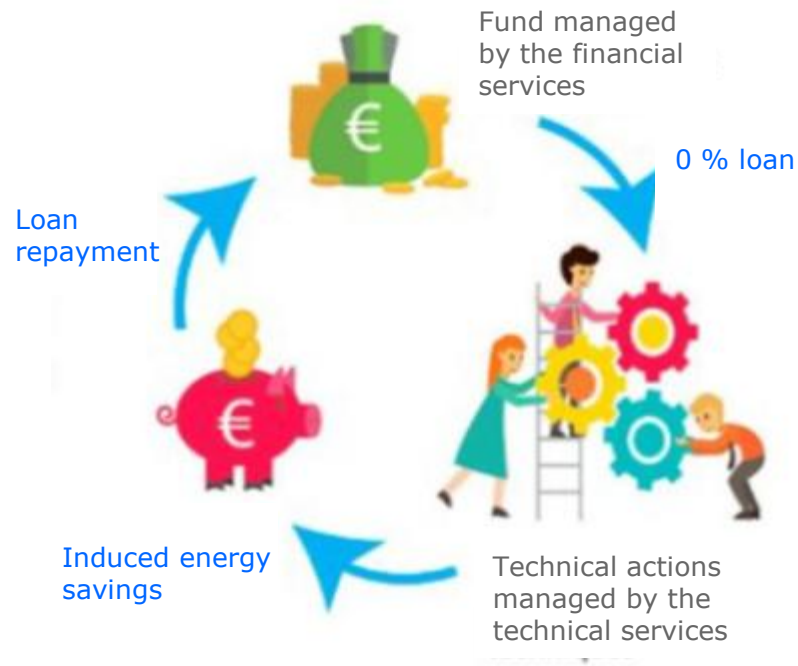
- Alpin environment
- 20,000 inh.
- 90 municipal buildings (13 schools, 1 central kitchen, several gymnasiums)
- 5,900 m² heated
- 3,950 public lighting points
- district heating network since 2019 (90 % local wood)

City budget :

- EUR 5,830,000 general expenses
- Including NRJ = EUR 1,328,000 = 23 %
- EUR 6,500,000 equipment budget capacity / year
- Debt reduction target

Intracting scheme – Why ? How ?

- Already several actions but nothing effective to drastically reduce our important energy consumption :
 - A lack of financial means to heavily invest in the renovation of the whole building stock
 - The limit of our debt capacity
- Choice of the intracting solution in 2019 :
 - To act quickly, by our own means
 - To reduce immediately
 - To initiate a virtuous circle NRJ bills



Intracting scheme – step by step

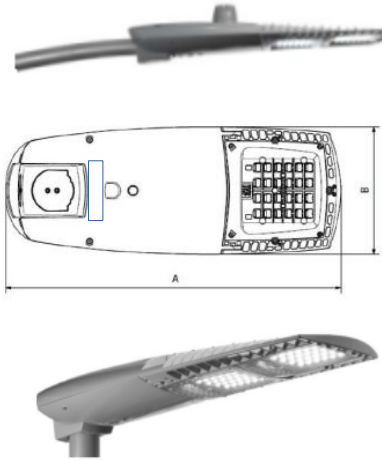


- ▶ 1 : evaluation of our previous savings to get a legitimate basis for our fund
 - **volumes saved in 2018** X **energy prices** in 2018
 - **Creation of a fund = EUR 113,610 in our investment budget**
 - **= 8 % of our energy operating budget**

- ▶ 2 : study and choice of the 1st savings measures
 - **Use the fund as quickly as possible** to be able to :
 - efficiency of the energy savings it allows / *ecological impact*
 - benefit immediatly from the savings to reduce our current expenses / *financial impact*
 - free ressources for further investments / *multiplier effect*

Intracting scheme – step by step

- ➔ **2019-002 replacing of 87 street light bulbs by leds in 2 streets (2 % public lighting park) :**



Evaluation of energy saving :

- = - 73,195 Kwh / year of electricity
- = 76 % energy consumption saved
- = - 73,195 Kwh x (0.101 EUR / KWh in 2019)
- = - **7,412 EUR / year**
- = - EUR 74,120 during the 10 years of residual life

- = **EUR 45,120 net benefit at the end of 10 years of use**

Coverage of the financing need by the intracting fund :

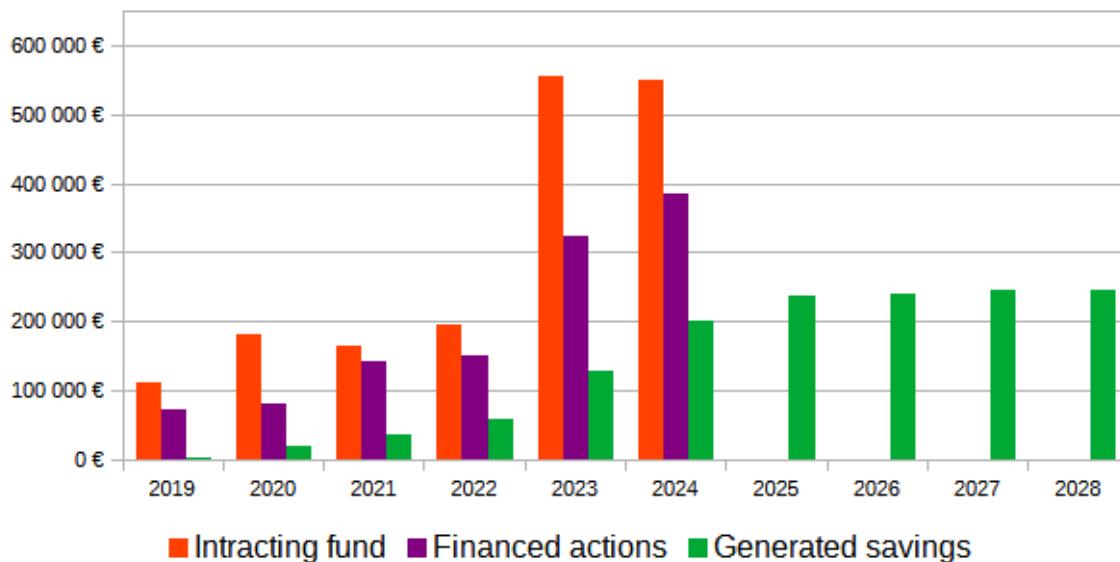
- EUR 29,000 = 100 % need = cost
- 4 years = return on investment



We accelerated this equipment program through the intracting fund
Easy measure for the 1st year of implementation (existing program)

Intracting scheme – Our 1st results

	2019	2020	2021	2022	2023	MADE 2019-2023	2024	2025	2026	PLANNED 2024-2026
Intracting fund	113 610 €	224 261 €	307 043 €	358 061 €	765 439 €	1 215 227 €	993 186 €	1 197 155 €	1 744 763 €	1 691 529 €
Financed actions	72 462 €	82 275 €	144 291 €	150 759 €	324 412 €	774 200 €	387 793 €			
Savings of energy	3 892 €	19 080 €	36 877 €	60 107 €	130 696 €	250 652 €	200 965 €	238 199 €	242 236 €	681 400 €

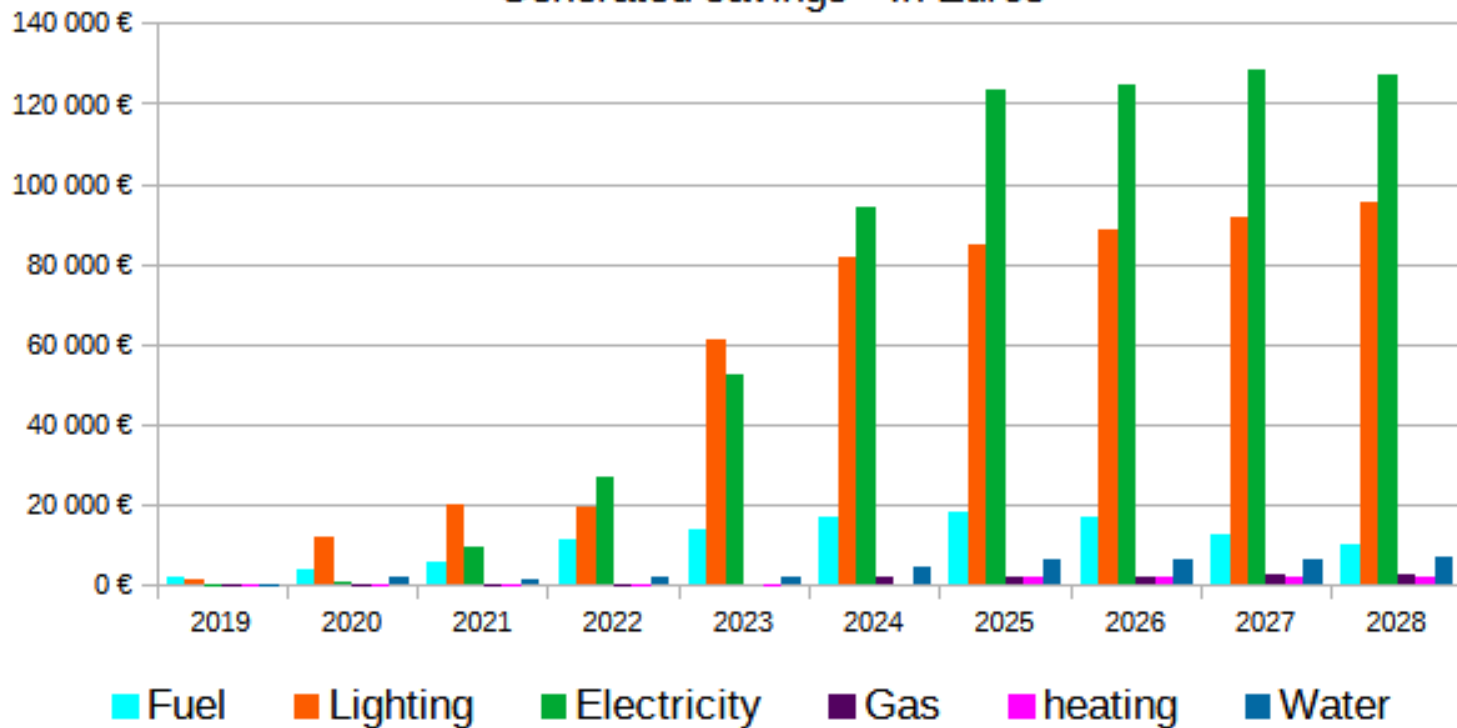


➡ NRJ budget :
1.307 M€ in 2019
1.328 M€ in 2023

Intracting scheme – Our 1st results



Generated savings - In Euros



Intracting scheme – Crucial initial « ignition »

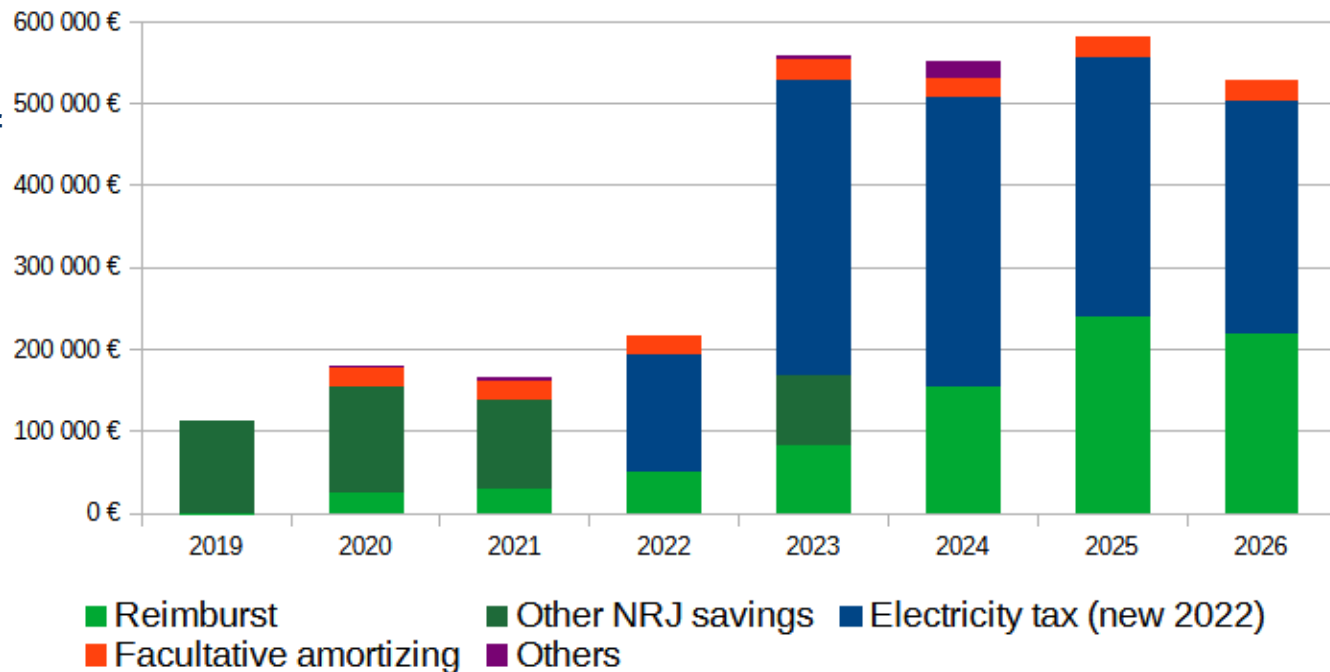
➤ Financial solutions :

a new national electricity tax en 2022, introduction of facultative amortizing

➤ Political option :

ressources must be linked to energy in order to draw up a coherent approach to the sobriety policy

Annual incomes



Intracting scheme – Multi-dimensional tool

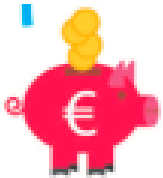


➤ **Politicly and organization**

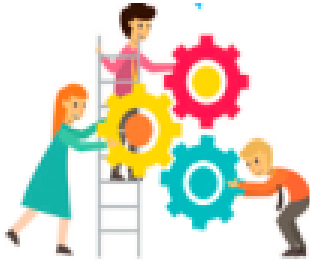
- Virtuous circle for sobriety and energy transition
- Strengthens the partnership « technics - finance »
- Services able to show autonomy and creativity – better recognition of their expertises – more legitimacy
- Its results protect the fund's longevity

➤ **Finance**

- Multiplier effect of the financed actions
- Increase our financial independence / savings
- Boost the tool to get a bigger impact at the beginning
- Powerfull return on investment !



Intracting scheme – Multi-dimensional tool

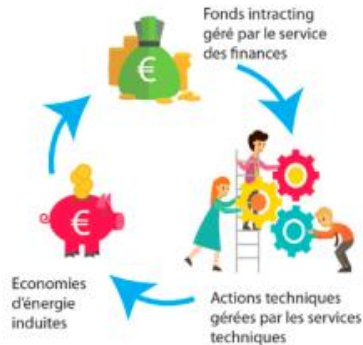


➤ Energy efficiency and environmental protection

- Act quickly and concretely to reduce NRJ consumption and pollution, even with small steps
- Benefit in return from a financial savings for even more and greater actions

➤ Clear and concerted rules to be efficient

- Simple internal tool if continuously concerted
- No regulation – Wow effect on the organization !
- Choice of a continuous improvement approach



Intracting scheme – our other feed backs

► The importance of the origin of the fund

- The rationale for the intracting fund has been facilitated by :
 - proving the **importance of our energy expenditures and their always higher amounts**
 - using the fund for saving measures to **reduce our operating expenses,**
 - **in a continuous improvement process**
- The **biggest obstacles to overcome** were :
 - the need to finance other heavy investments, already planned, on our investment budget
 - our concern to limit our debt, which induces a difficulty to introduce new expenses
- Asset at the beginning = **limited amount** of the fund
- Next challenge = to **use the fund for larger operations without diverting it** from its purpose

Intracting scheme – our other feed backs

► The importance of a flexible approach

- Whenever possible, we choose the most advantageous calculation formula to :
 - increase the fund's amount to get a bigger and faster impact on our consumption
 - finance as many measures as possible, even if it could be difficult to establish strictly the saving results / *some approximative and comparative approaches*
- We paid attention to the simplicity of the device, to be as convincing as possible :
 - close link between the ressources and the financed measures
 - simple calculation formula for energy savings evaluations