

# *Dr Watt trainings*

## *Training a group of people to reduce their electricity consumption*

*REScoop Plus – Gérone – June 2017*



05/07/17



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 696084





# Context

## Environmental

- Climate change
- Pollution and risks linked to fossil fuel and nuclear energy

## Social

- Liberalization of the energy market
- Depletion of fossil fuel resources
- Price increase for the end-consumer

07/05/17



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# *Enercoop's project*

Created in 2005 by:



**GREENPEACE**

**Activity : Supplier of renewable energy**

**Vision : Give citizens the opportunity to take action in the energy transition**

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# *Enercoop's project*

## 3 main objectives:

- Promote decentralized energy production from renewable sources
- Support energy efficiency and encourage rational energy use
- Put energy issues back into the hands of the citizens

07/05/17



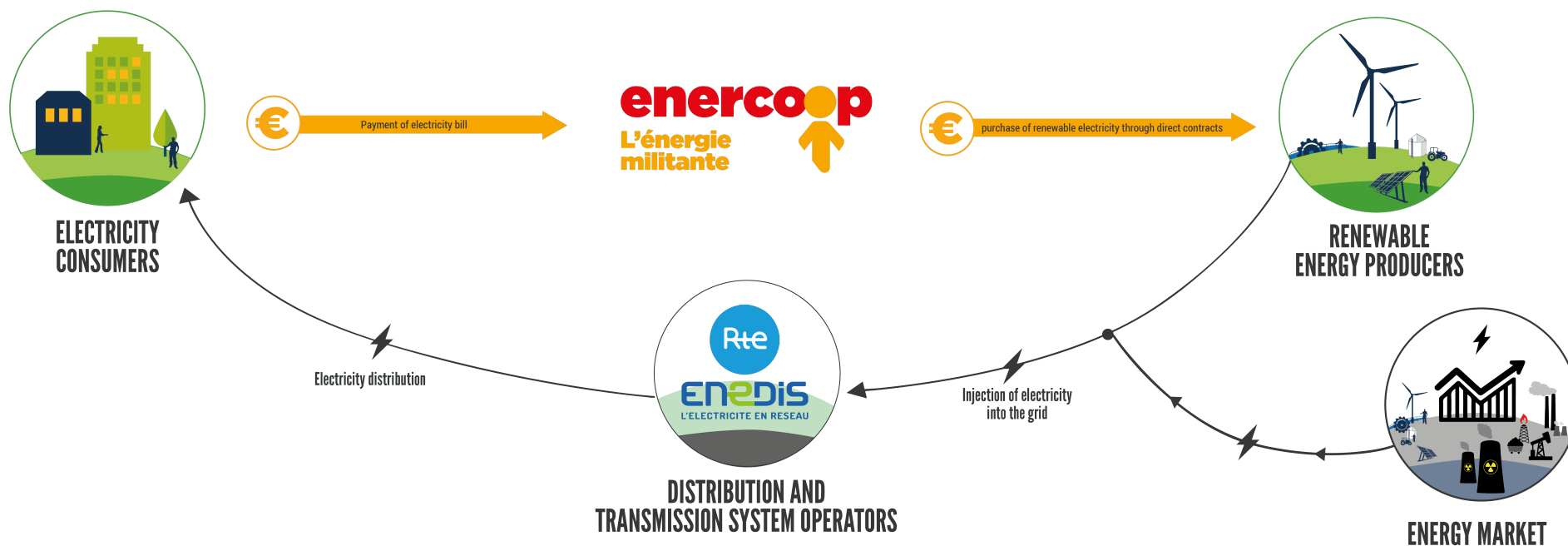
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# Enercoop's project

## Supplying renewable energy



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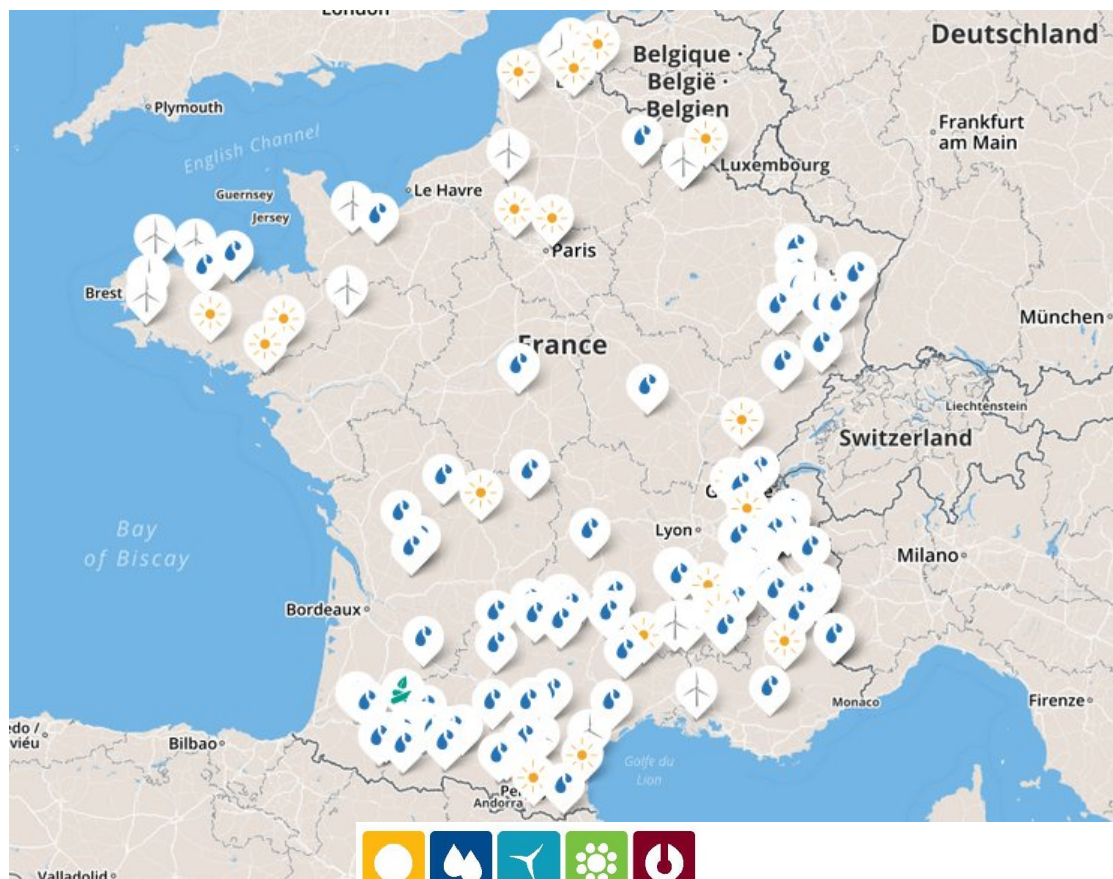
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# *Enercoop's project*

## Local renewable energy producers



- 130 local producers
- 81 MW total capacity
- Different sources:
  - 70% hydro power
  - 12% wind power
  - 17% solar power
  - Less than 1% biomass

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# *Enercoop's project*

## Today:

**47 000**

clients

**27 000**

members

**5000**

businesses

**150**

employees

**100**

Local authorities

**130**

producers



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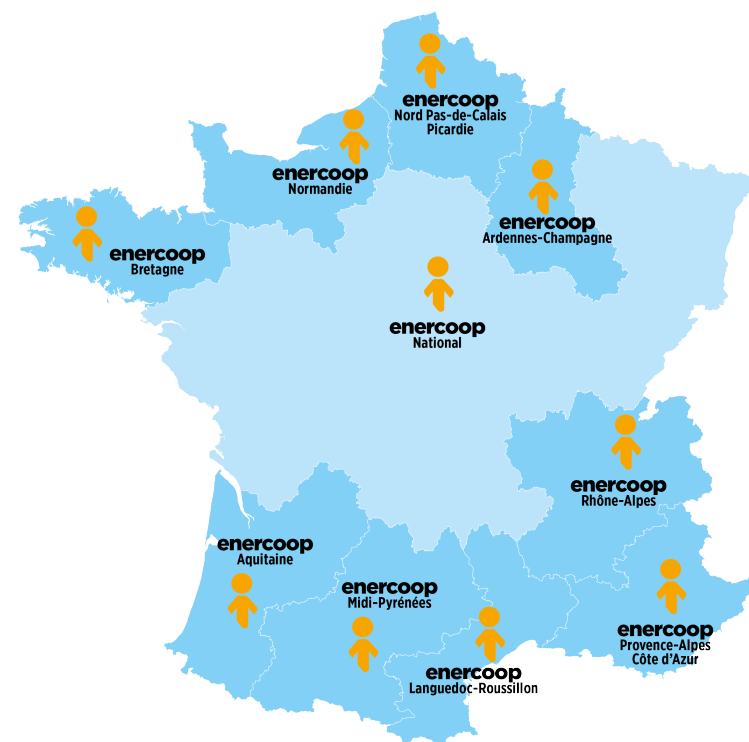
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# *A network of local cooperatives*

## 10 local cooperatives

- Creation of short and local circuits of energy between producers and consumers
- Share services and experiences
- Solidarity between local cooperatives
- Guarantee of respect for the ethics and values of Enercoop
- Each local cooperative is legally independent but the network has a single governance system



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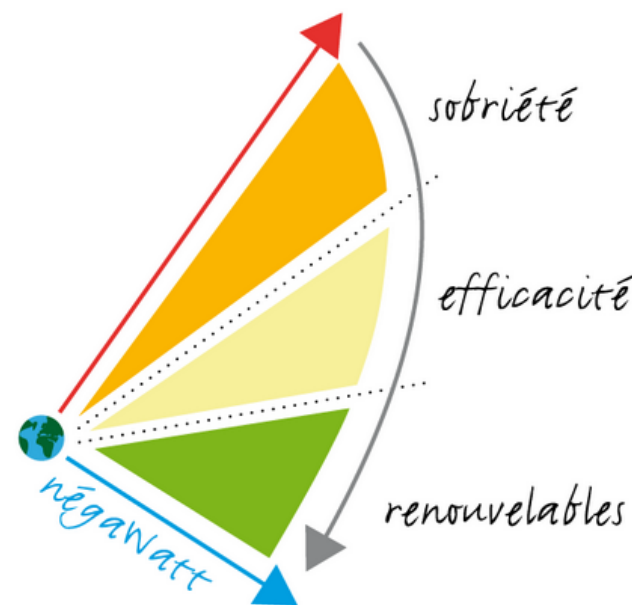




# Energy savings

## Essential for the energy transition

- **Rational use**
  - Reducing energy consumption without reducing the level of comfort
- **Efficiency**
  - Right choice of equipment and appliances for energy consumption
  - Investing in efficient energy production



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# *Energy savings*

## **Realization and consolidation of the political project of Enercoop**

- Energy savings is the other – big – part/issue of the energy transition (20 % of the specific electricity to reduce in the negaWatt model)

## **Acquisition and development of customer loyalty of the customers / members**

- Coherent project, coherent speech, higher price and support (accompagnement) in the reduction of the energy consumption
- Enrich the bench of energy services and starting to answer to energy market development turned to the services (EE, production, etc)

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# Energy savings

## Enercoop's position

- Empower consumers
- Using human interactions as a source for cultural and consumption changes
- New tools for our consumers:
  - Dr Watt
  - Energy savings Wiki
  - Tailor-made support for SMEs



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# *Main aims of the Dr Watt training courses*

## **For the individuals :**

- A training to become aware of its consumption of electricity and act concretely for its reduction

## **For the organizations :**

- Allows to build a coherence within corporate policies (CSR, Social/solidar Economy) of enterprises or associations or local community, by making sensitives their employees/members in a responsible consumption of electricity

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# *Main aims of the Dr Watt training courses*

## For the individuals :

- A training to become a professional in the field of electricity and act concretely

**39 € TTC**

## For the organizations :

- Allows to build a coherence within corporate policies (CSR, Social/solidar Economy, etc.) for associations or local communities, to raise awareness among their employees/management about the consumption of electricity

**500 € HT**

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# A four steps programm (1/4)

OFFLINE

1  
1 heure 30

**1st session with an expert**  
Learning to use a wattmeter, the online website  
and the method to realize the self-diagnosis



## Data sheets

Dr. Watt

Bienvenue sur Dr. WATT,  
l'outil d'auto-diagnostic énergétique d'ENERCOOP,  
fournisseur d'électricité 100% citoyenne et renouvelable

En savoir plus »



S'identifier

Nom d'utilisateur :

Mot de passe :

☐ Se souvenir de moi

Connexion

Créer un compte



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**enercoop**  
L'énergie  
militante







ONLINE

# A four steps programm (2/4)

2

6 weeks

## Home self-diagnosis

Mesures and online report of the electricity consumption. Personalized advices to reduce it













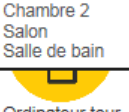






PREMIÈRE ÉTAPE

DEUXIÈME ÉTAPE

TROISIÈME ÉTAPE

Bravo, vous venez de créer votre logement. Vous allez maintenant sélectionner les pièces qui le compose. Vous pourrez par la suite personnaliser le nom des pièces, en ajouter ou en supprimer. Plus tard vous pourrez créer d'autres versions de votre logement pour réaliser des comparatifs.

5 minutes to create your household and the more consuming appliances

 Cuisine 0	 Buanderie 0	 Bureau 0	 0 1 2 3 4 5	 Salle à manger 0
 Salon 0	 Salle 0	 Réfrigérateur N/C	 Congélateur N/C	 Co N/C
		 Lave vaisselle N/C	 Ordinateur portable N/C	 Ordinateur tour N/C
				 Téléviseur N/C
				 TNT / Satellite / Box télé N/C
				 Lave-linge N/C
				 Box / Modem N/C
				 Fer à repasser N/C
				 Aspirateur N/C

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Finalisation



ONLINE

# A four steps programm (2/4)

2

6 weeks

## Home self-diagnosis

Mesures and online report of the electricity consumption. Personnalized advices to reduce it

Dr. Watt



Un service proposé par Enercoop

Informations

Logement

Occupants (0)

Pièces (16)

Consommations  
réelles

Appareils (21)

Résultats

Economies/Conseils

Questions fréquentes  
et documents

An intuitive and easy to use  
online space ...

There is only to follow the  
menu from top to bottom



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# A four steps programm (2/4)

ONLINE

2

6 weeks

## Home self-diagnosis

Mesures and online report of the electricity consumption. Personnalized advices to reduce it



Just report the mesures and Dr Watt makes the rest...



Un service proposé par Enercoop

## Mon appareil Machine à café

Nom: Cafetière Désignation \*: Machine à café Pièce \*: Cuisine

Consommation lors de la mesure: 0,32 kWh Nombre de cycles: 1 /Jour Etat de fonctionnement pendant les vacances \*: Branché

Expression des durées en \*

Heures/Jour

(24h/jour)

Durée de fonctionnement en veille \*

24:00 Heures/Jour

(format: hh:mm)

Puissance en veille

2 W

Durée seulement branché \*

00:00 Heures/Jour

(format: hh:mm)

Puissance seulement branché

0 W

Durée où l'appareil est débranché \*

00:00 Heures/Jour

(format: hh:mm)

05/07/17

Informations

Logement

Occupants (0)

Pièces (16)

Consommations réelles

Appareils (21)

Résultats

Economies/Conseils

Questions fréquentes et documents



# A four steps programm (2/4)

ONLINE

2

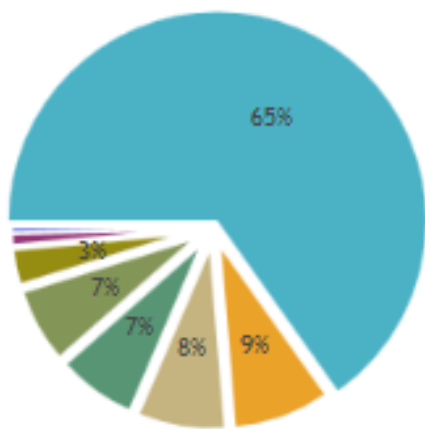
6 weeks

## Home self-diagnosis

Mesures and online report of the electricity consumption. Personnalized advices to reduce it

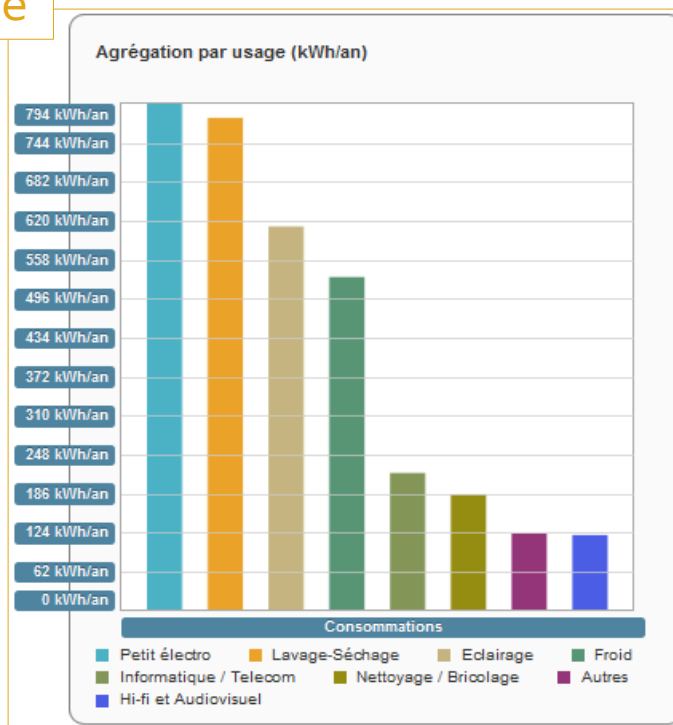
Graphical visualisation of the self-diagnosis results

### By space



<span style="color: #0070C0;">■</span>	cuisine
<span style="color: #FF8C00;">■</span>	salon bas
<span style="color: #A08060;">■</span>	chambre litie-jeanne
<span style="color: #38761D;">■</span>	chambre parents
<span style="color: #556B2F;">■</span>	sdb haut
<span style="color: #808000;">■</span>	salon haut
<span style="color: #800080;">■</span>	chambre ninon
<span style="color: #4169E1;">■</span>	sdb bas
<span style="color: #FFD700;">■</span>	wc haut
<span style="color: #FF4500;">■</span>	chambre simon

### By type





# A four steps programm (2/4)

ONLINE

2

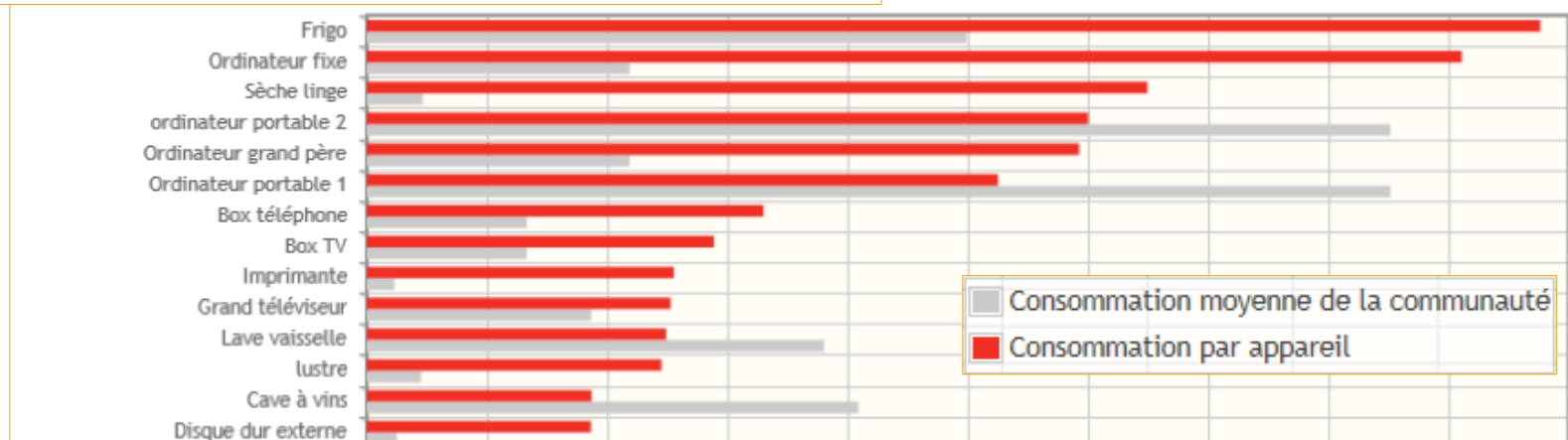
6 weeks

## Home self-diagnosis

Mesures and online report of the electricity consumption. Personnalized advices to reduce it

Graphical visualisation of the self-diagnosis results

### By appliance (compared to community)



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ONLINE

# A four steps programm (2/4)

2

6 weeks

## Home self-diagnosis

Mesures and online report of the electricity consumption. Personnalized advices to reduce it

Dr. Watt



Un service proposé par Enercoop

Informations

Logement

Occupants (4)

Pièces (18)

Consommations réelles

Appareils (60)

Résultats

Economies/Conseils

Questions fréquentes et documents

## Economies / Conseils

### Les économies que vous pouvez réaliser



Vous pouvez économiser 1 249,01 kWh/an, soit 155,88 € sur votre facture

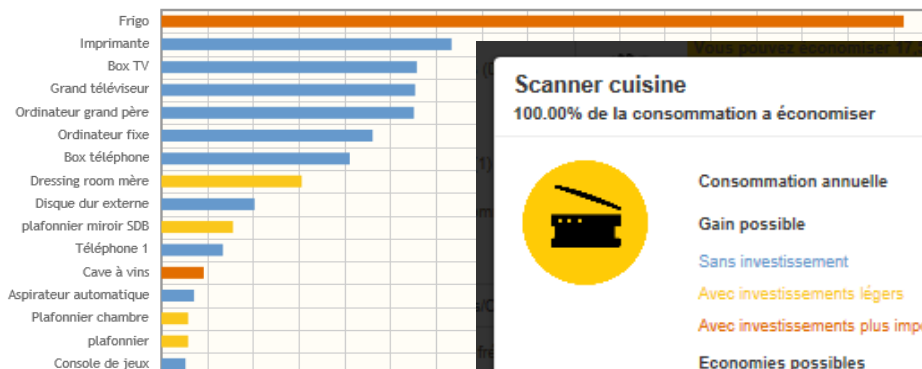
- 754,20 kWh/an soit 94,12 € sans investissement

- 151,71 kWh/an soit 18,93 € avec investissement léger

- 343,10 kWh/an soit 42,82 € sur votre facture avec des investissements plus importants

Cela représente 32,22% de vos consommations, suivez mes conseils !!!

### Economies réalisables



## Scanner cuisine

100,00% de la consommation à économiser



Consommation annuelle	17,52 kWh/an	
Gain possible	17,52 kWh/an	soit 1,89 €/an
Sans investissement	17,52 kWh/an	1,89 €/an
Avec investissements légers	0,00 kWh/an	0,00 €/an
Avec investissements plus importants	0,00 kWh/an	0,00 €/an
Economies possibles		
Mode sans utilisation	0 kWh/an	0,00 €/an
Mode veille	0 kWh/an	0,00 €/an
Mode juste branché	16,178 kWh/an	1,74 €/an
Pendant les vacances	1,344 kWh/an	0,14 €/an



Conseil personnalisé...

Votre appareil consomme de l'énergie juste en étant branché... cette consommation est inutile !!! Pensez à débrancher cet appareil lorsque vous ne l'utilisez pas. Vous pouvez le faire manuellement ou utiliser une télécommande qui gère votre prise (ou votre multiprise si plusieurs appareils le nécessite). Votre appareil consomme de l'énergie lorsque vous êtes en vacances... pensez à le débrancher lorsque vous partez en congés.

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Savings report and advices by appliance





# A four steps programm (3/4)

OFFLINE

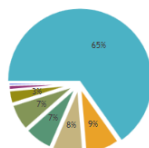
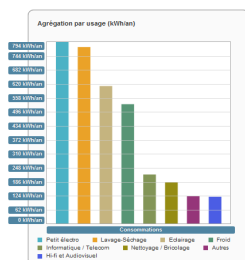
3

2 hours

## 2nd session with an expert

Experience sharing. Group results analysis.  
Tips and advices. Focus on lightning buying.

### Results discuss



cuisine
salon bas
chambre lille-jeanne
chambre parents
sdb haut
salon haut
chambre ninon
sdb bas
wc haut
chambre simon



By sharing their experiences, all participants can improve the group with some personal details which can be very useful for everyone

Difficult to understand how to buy lighting today



Talks about some tips and advices, some tools helping to reduce electricity consumption



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## *A four steps programm (4/4)*

- Acting on energy savings and online consumption follow-up
- Preservation of the Online Dr Watt account – and still possibility to use it again and again ...



4

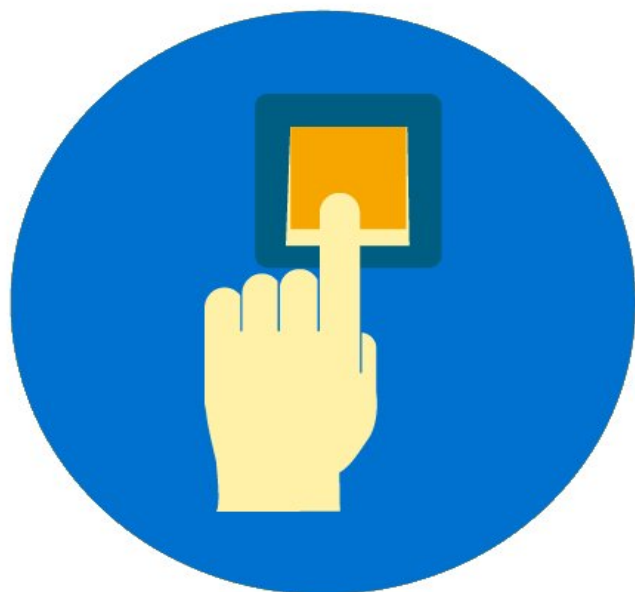
### **Économies d'électricité et suivi de votre consommation**

Mise en place des actions d'économie d'électricité conseillées

Suivi des avancées sur votre espace en ligne qui reste disponible



# Effectivness



**34 € / an  
d'économies\***

**Éco-gestes, sobriété**

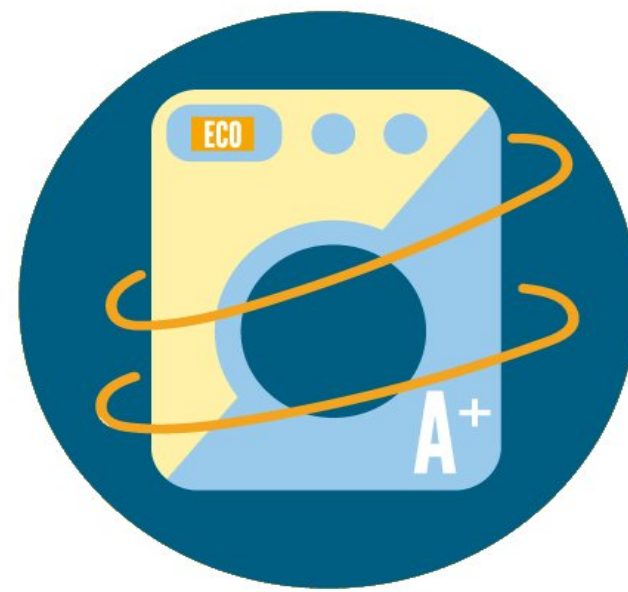
12,4 % of the  
appliances measured



**32 € / an  
d'économies\***

**Changement de l'éclairage**

11,7 % of the appliances  
measured



**45 € / an  
d'économies\***

**Changement du matériel  
(froid, lavage...)**

16,6 % of the appliances  
measured

\*Économies d'énergie moyennes détectées chez les participants à la formation Dr Watt, sur la base du tarif Enercoop.



# *Sharing it with other european cooperatives*

## Why not ..

- We already did a dissimination in our own network of cooperatives in 2016-2017

## How

- We didn't think about the cost and legal conditions of sharing, but we're open to ideas .. !

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*Thank you !*



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