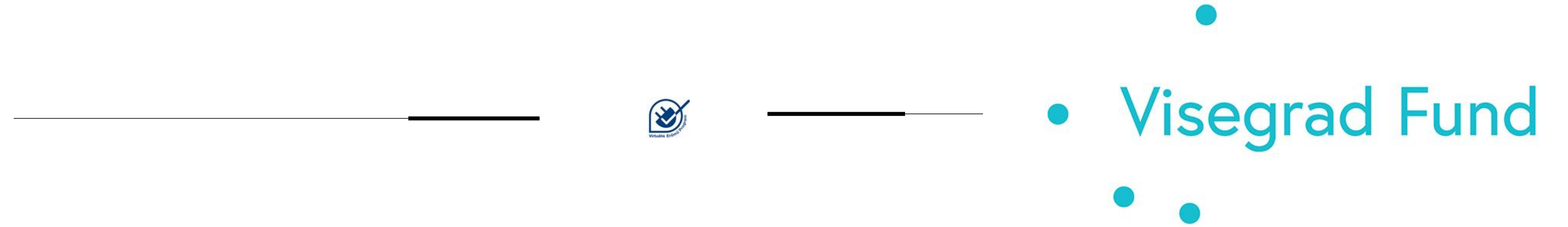




# VIRTUAL POWER PLANT PROGRAM



SUSTAINABILITY EDUCATION IN  
THE CEE REGION'S LARGEST  
GREEN MOVEMENT



# AGENDA



1

About the program

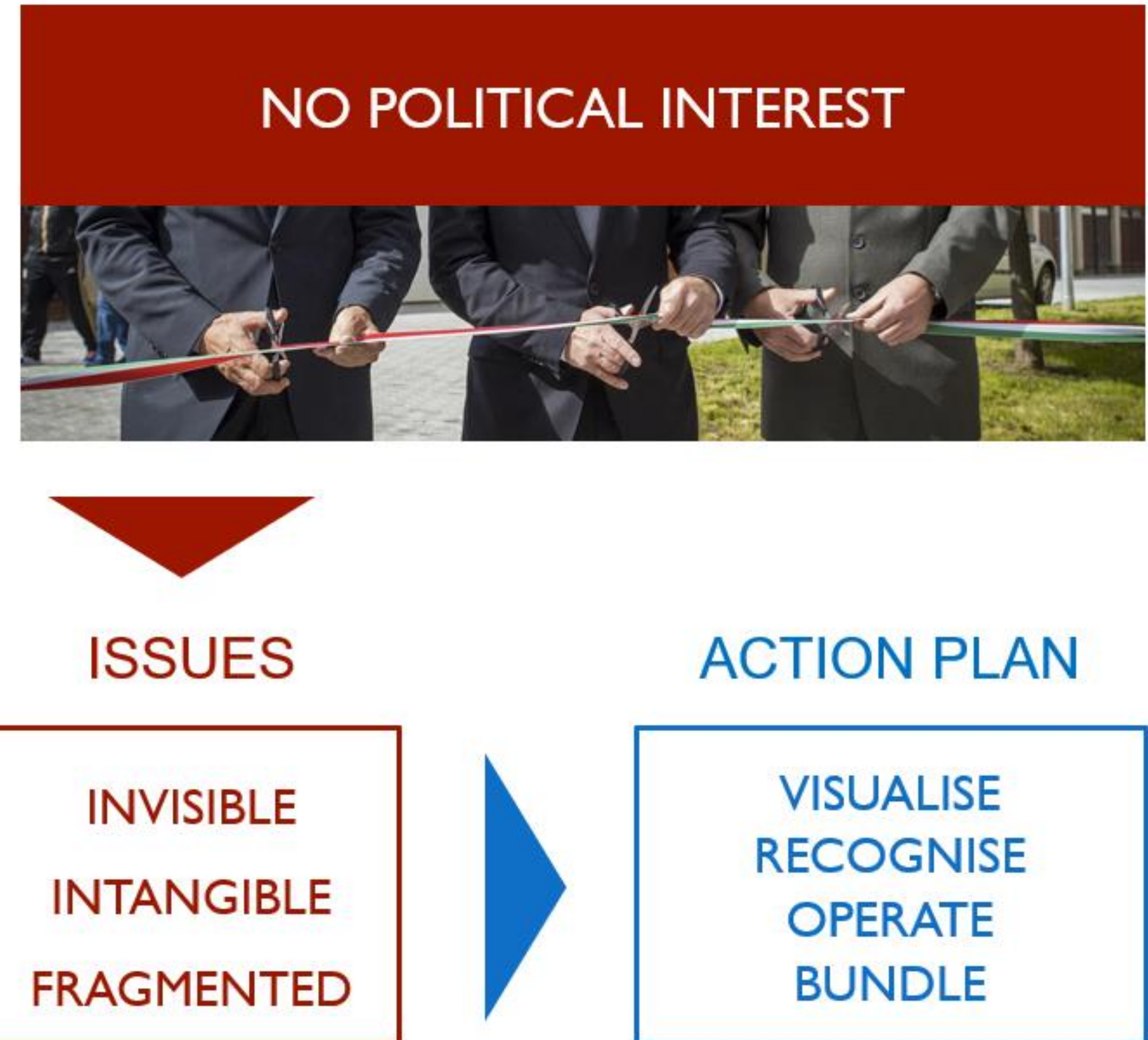
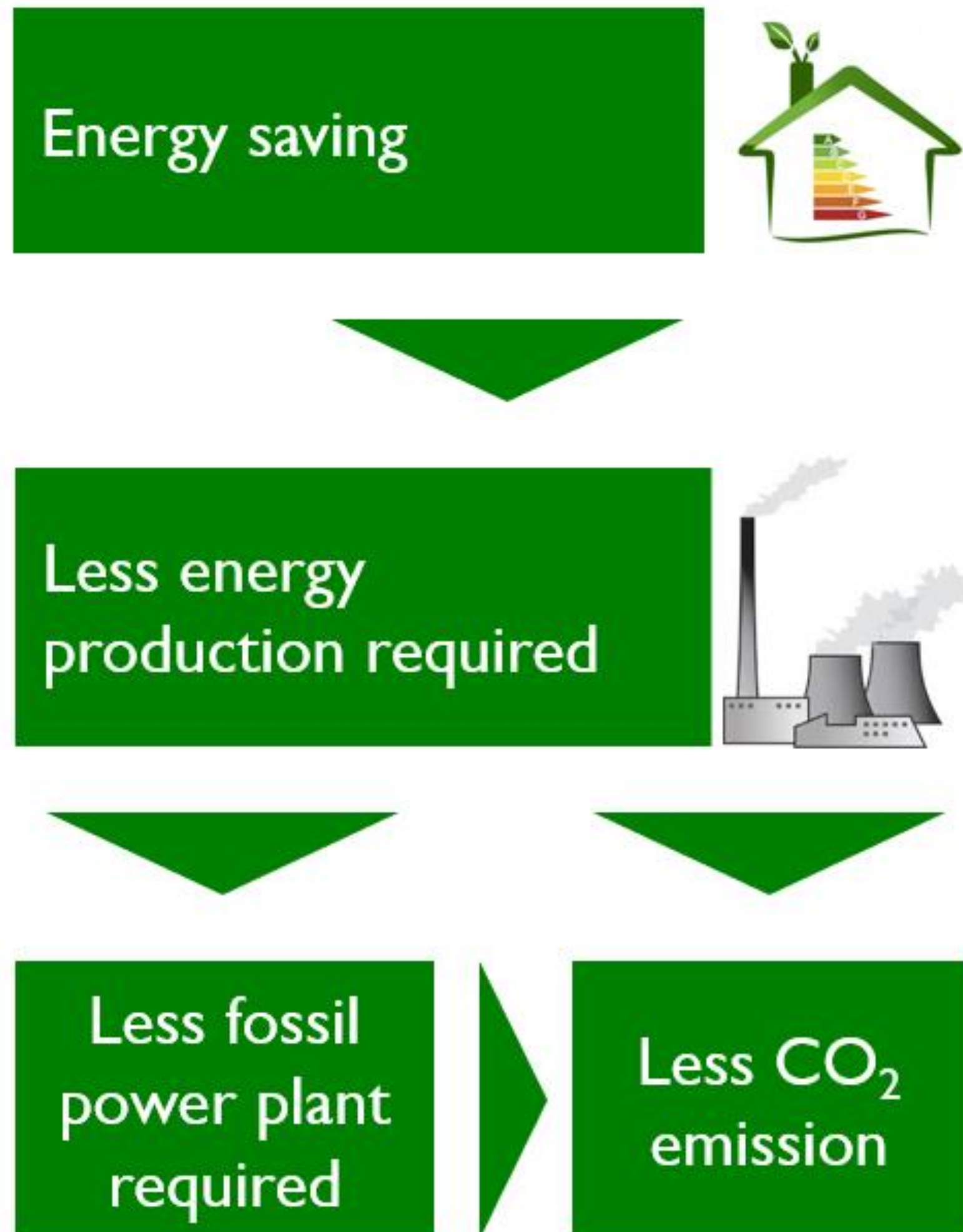
2

Our results so far

3

Sustainability education

# About the program





# About the program

VISUALISE

Glass bricks for energy savings building a „Power Plant”



RECOGNISE

Award and recognition programme

OPERATE

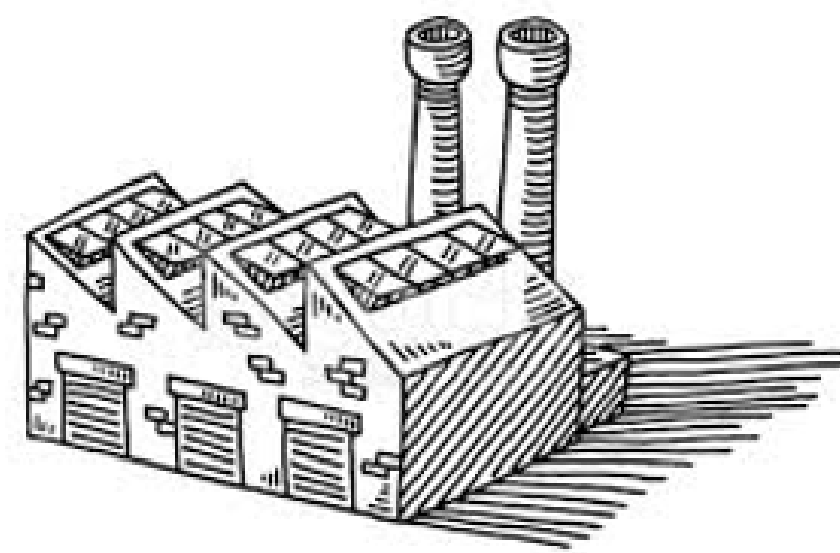
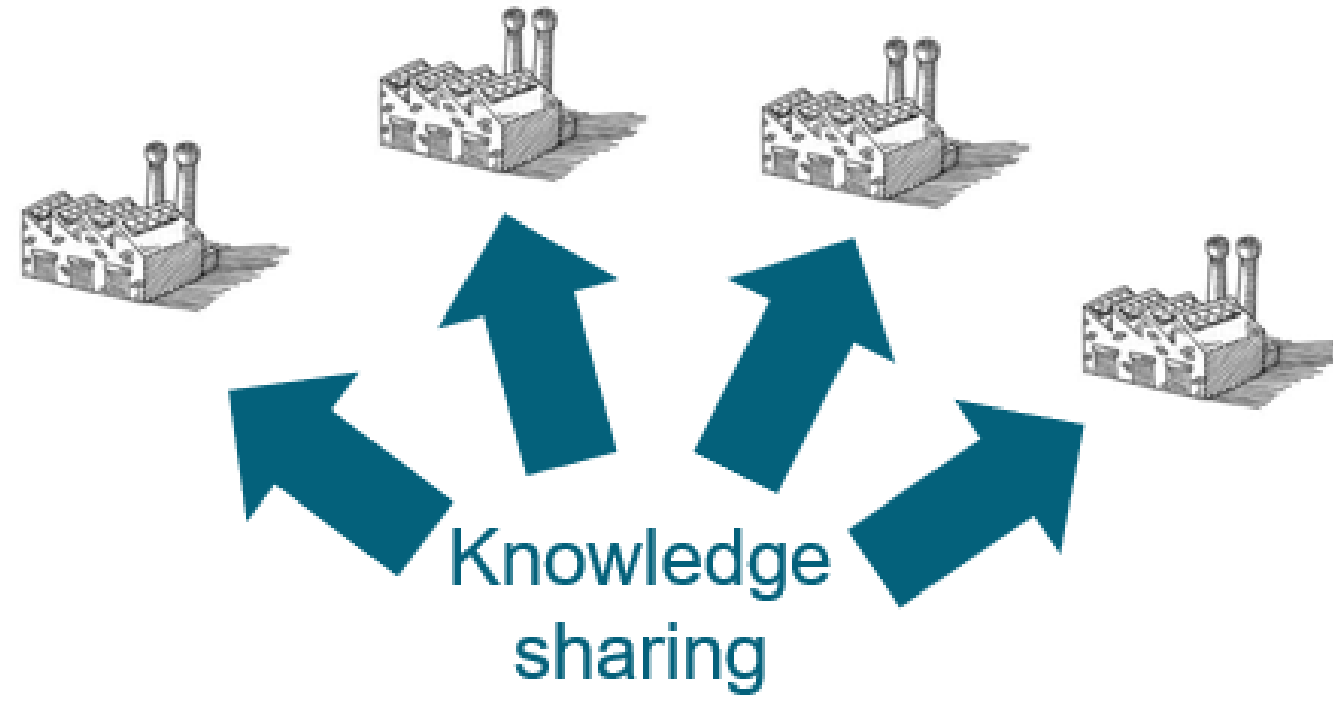
Set target, plan, make progress and follow up

T: 2020 | 200 MWe

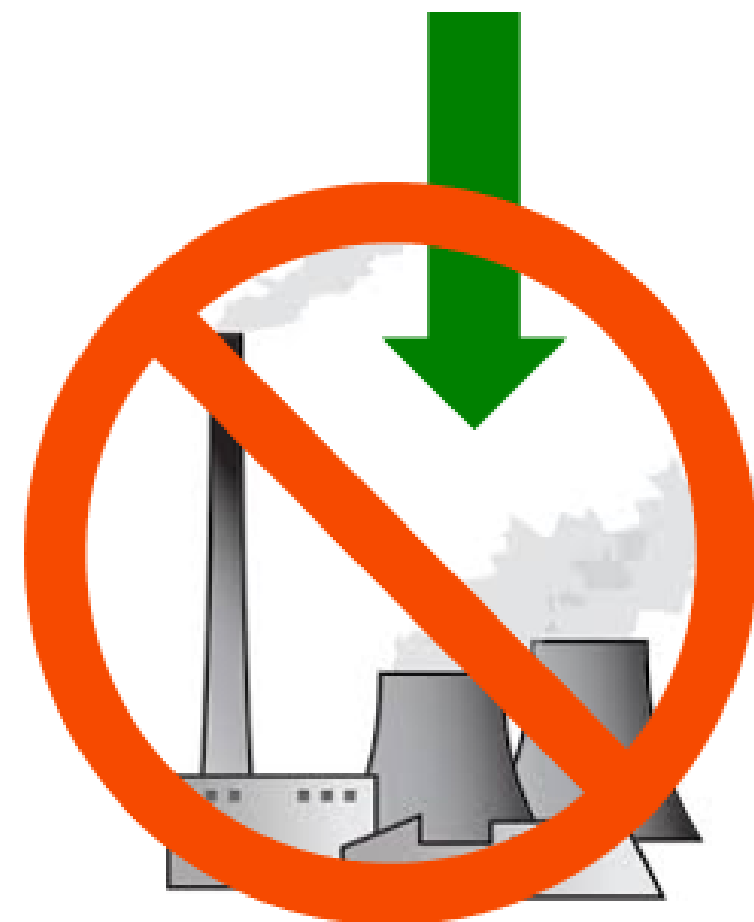
BUNDLE

Pile up the bits of savings

R: 2020 | 627 MWe



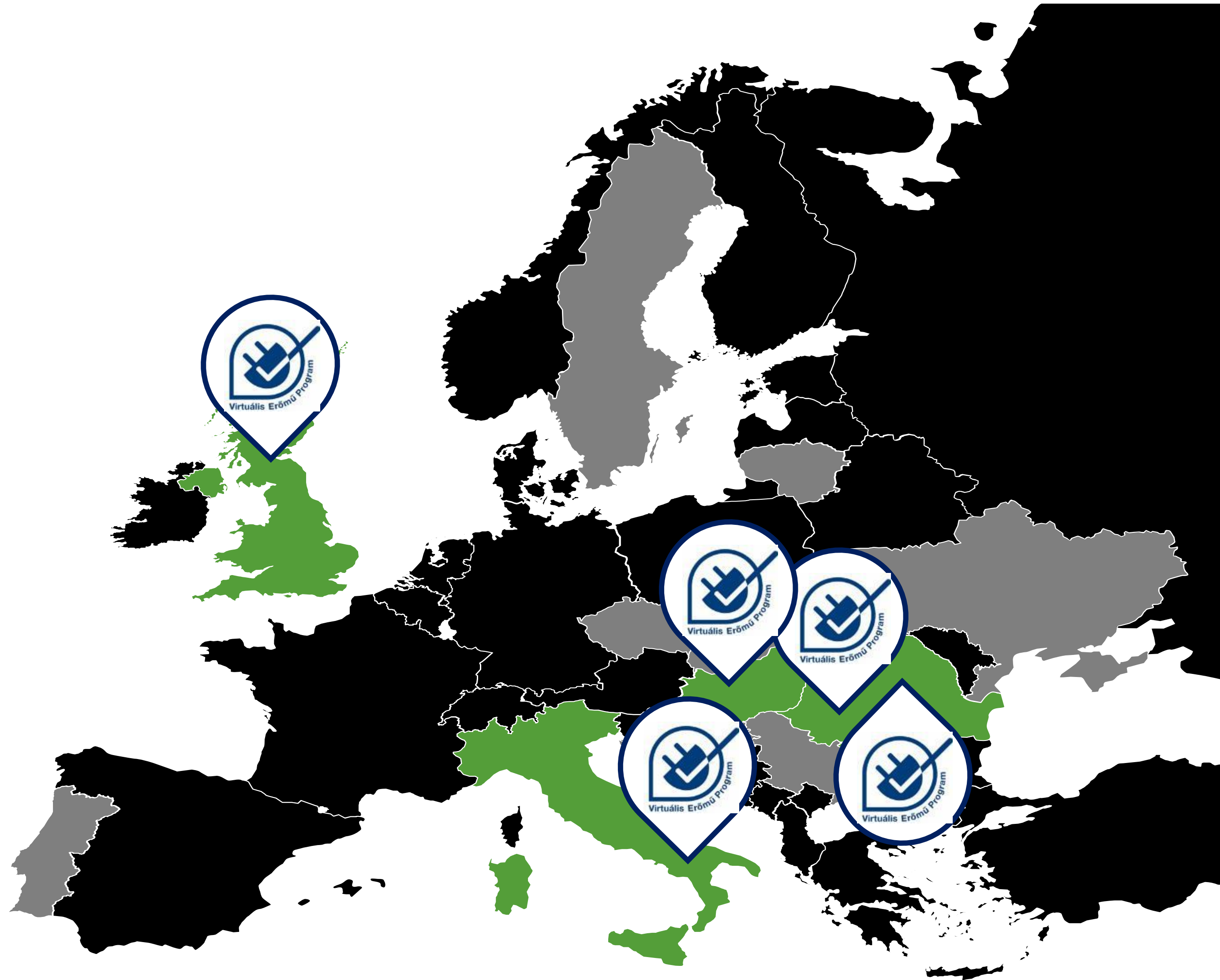
Goal  
**200MWe**  
(2020)



Result  
**627 MWe**



# VPPP 4 countries, 8 „local plants”



3 MW	POTENZA VPPP (UK)
2 MW	TIMIS VPPP (I)
0,5 MW	DURHAM VPPP (RO)
0,1 MW	ALBA IULIA VPPP (RO)
66 MW	FŐVPPP- T
12 MW	KEVPPP
4 MW	BAVPPP
n.a.	FEVPPP

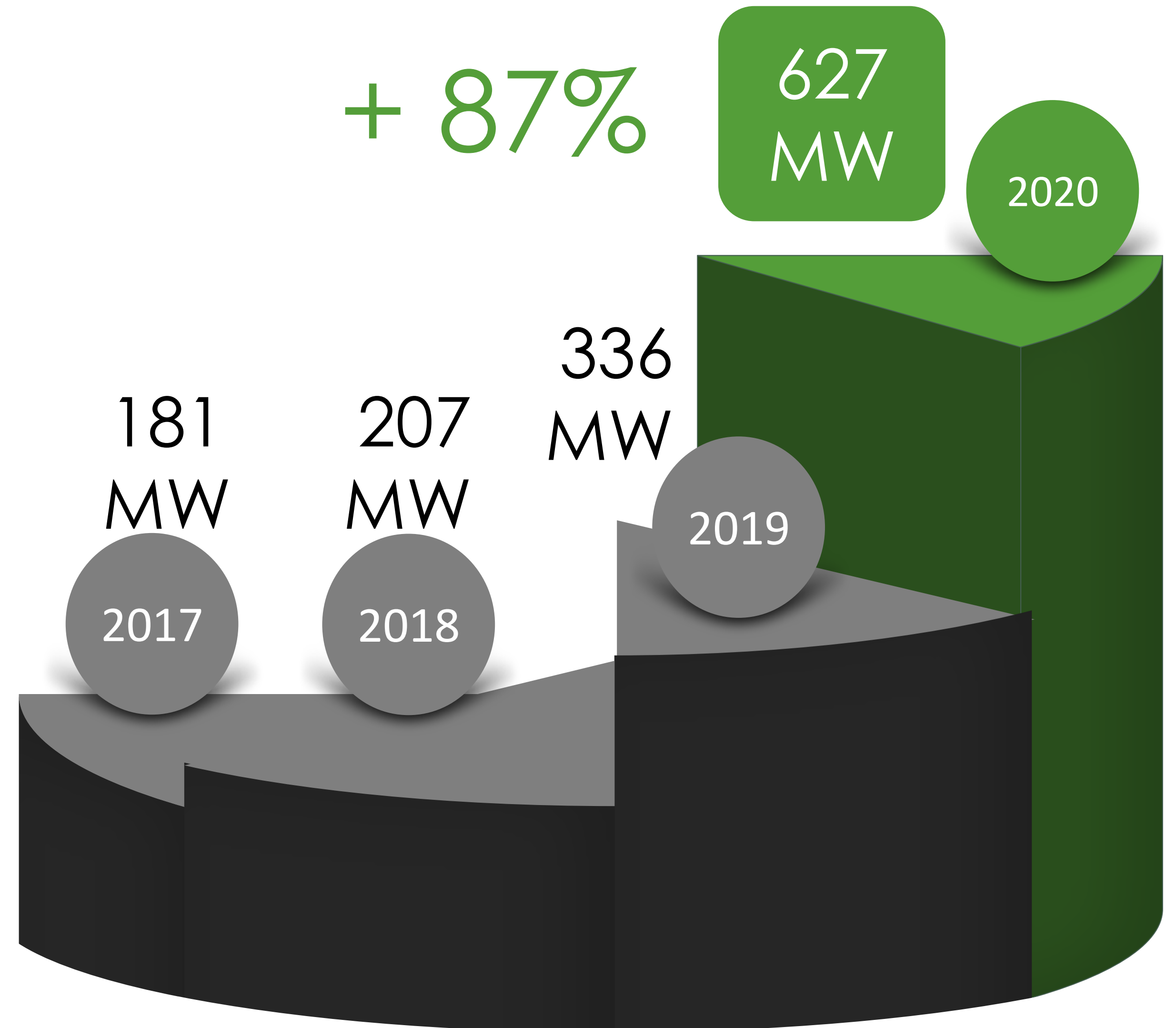




# VPPP is the 4th largest Plant in Hungary



336	VIRTUÁLIS (2019. márc.)
395	Csepeli
433	Gyönyűi
627	VIRTUÁLIS (2020. márc.)
812	Dunamenti
966	Mátrai
2000	Paks

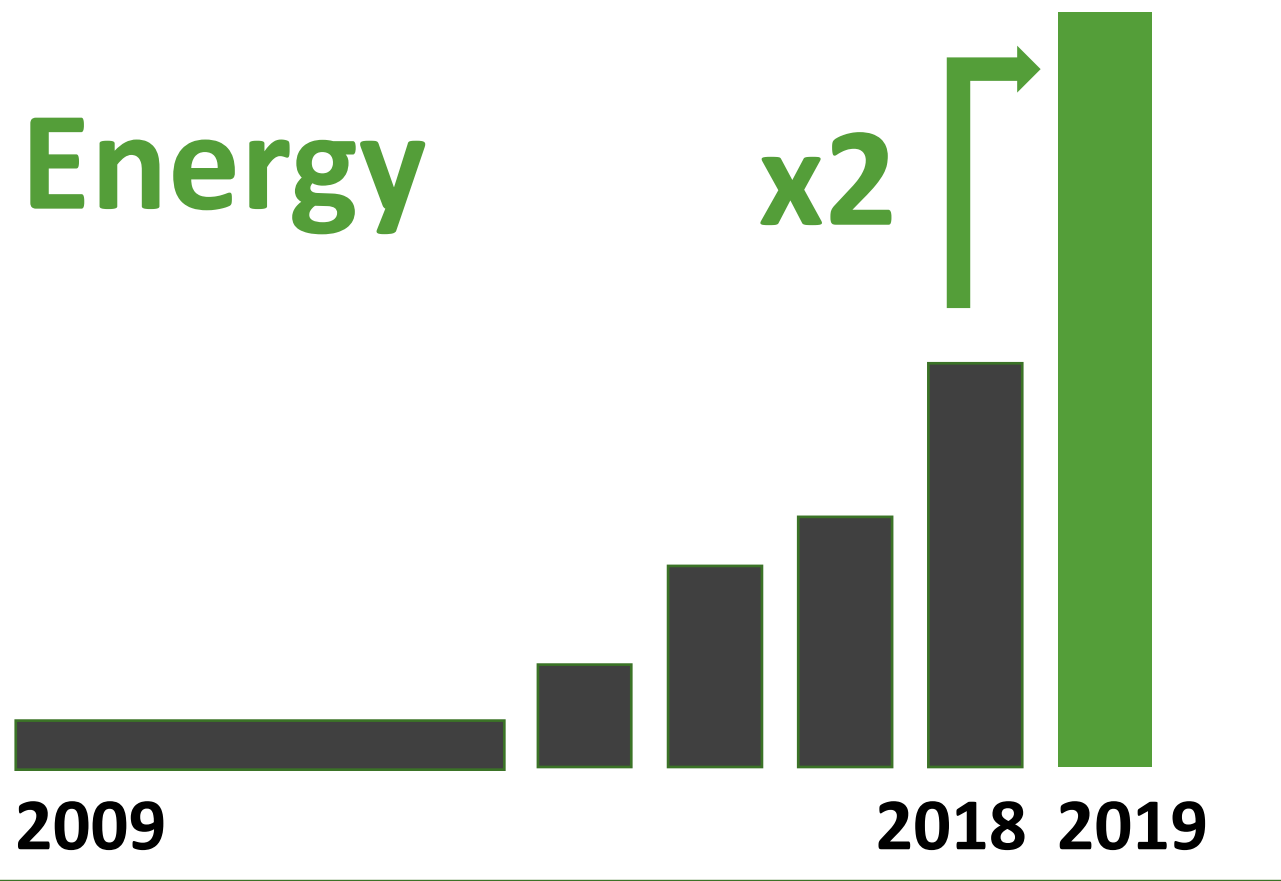




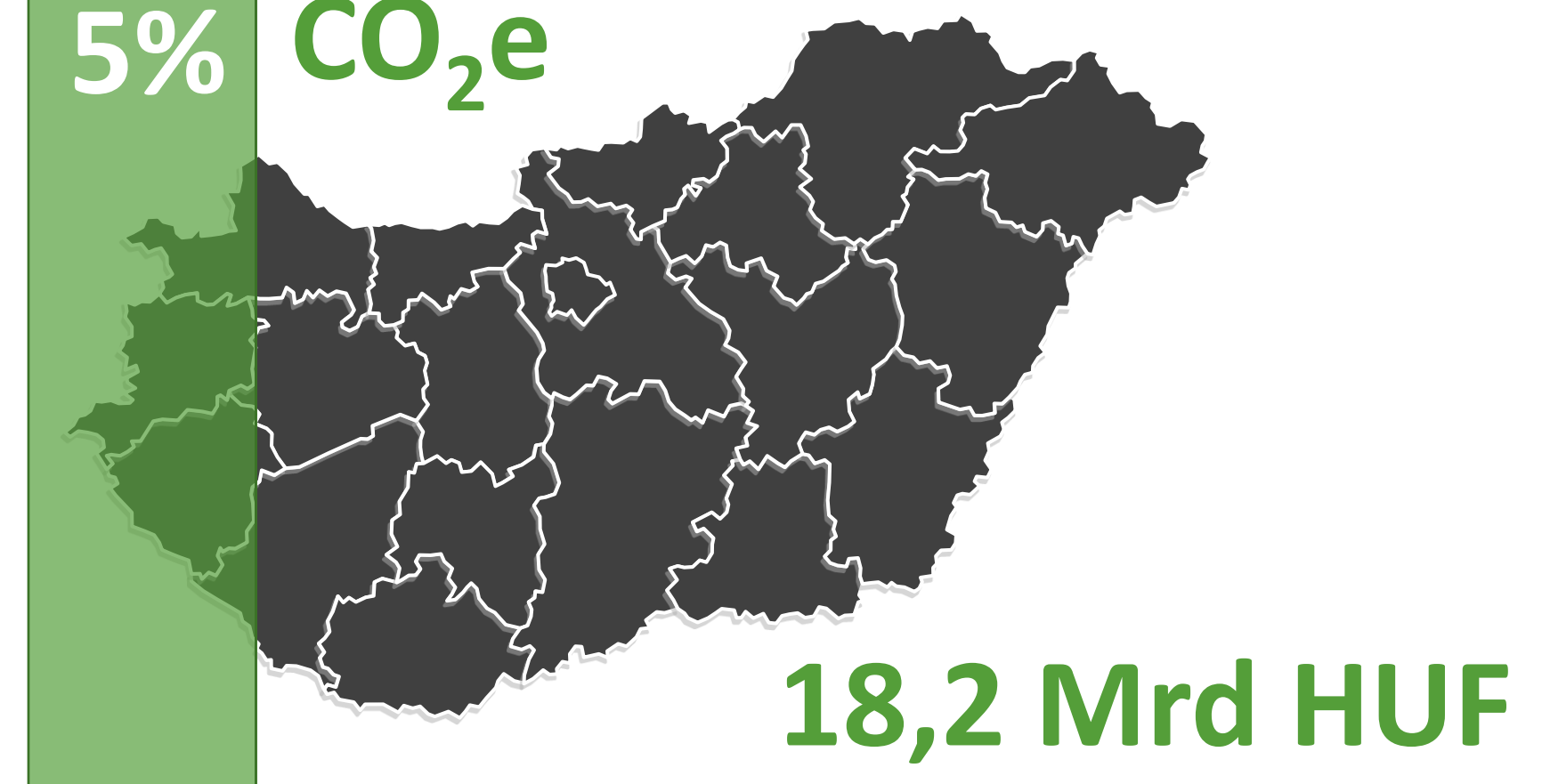
# Energy

2009 2018 2019

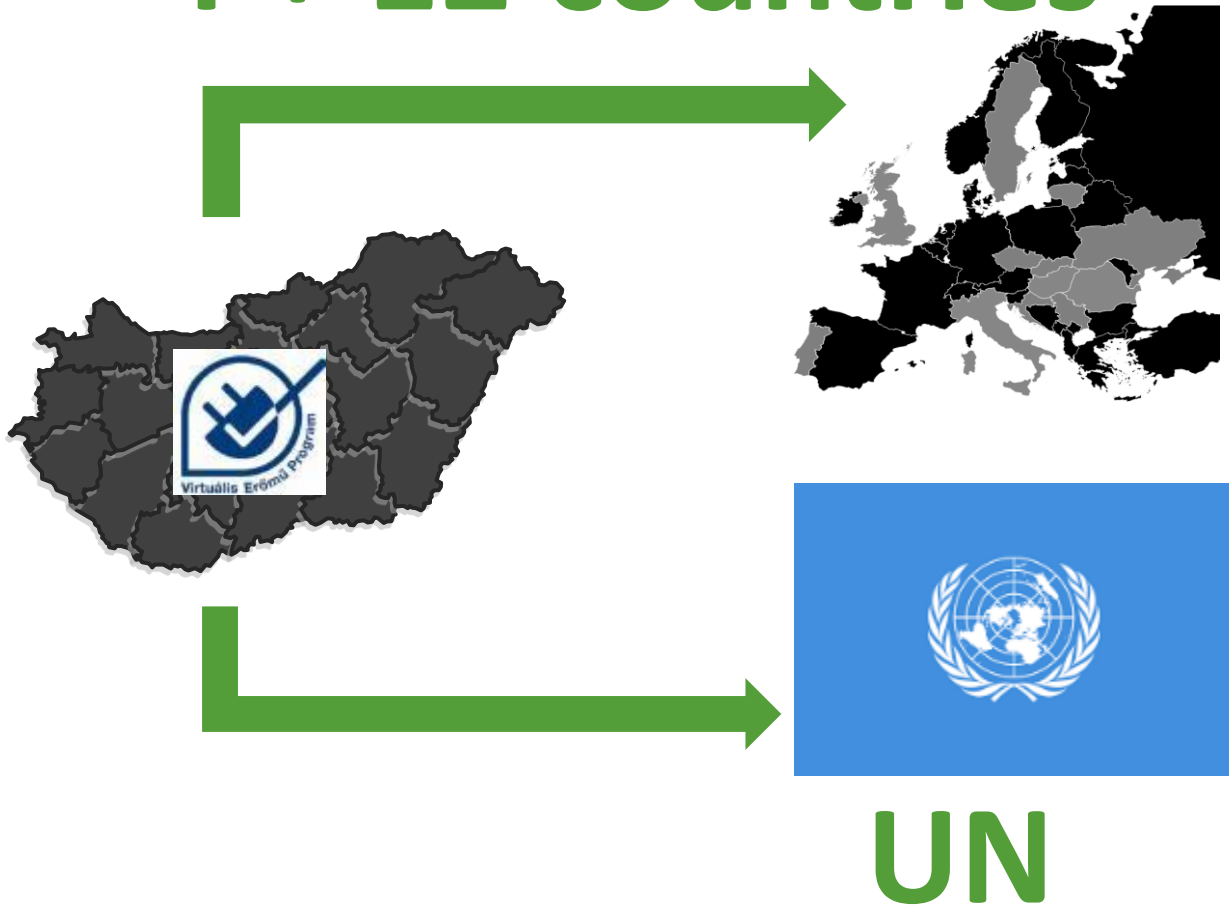
x2



5% CO<sub>2</sub>e



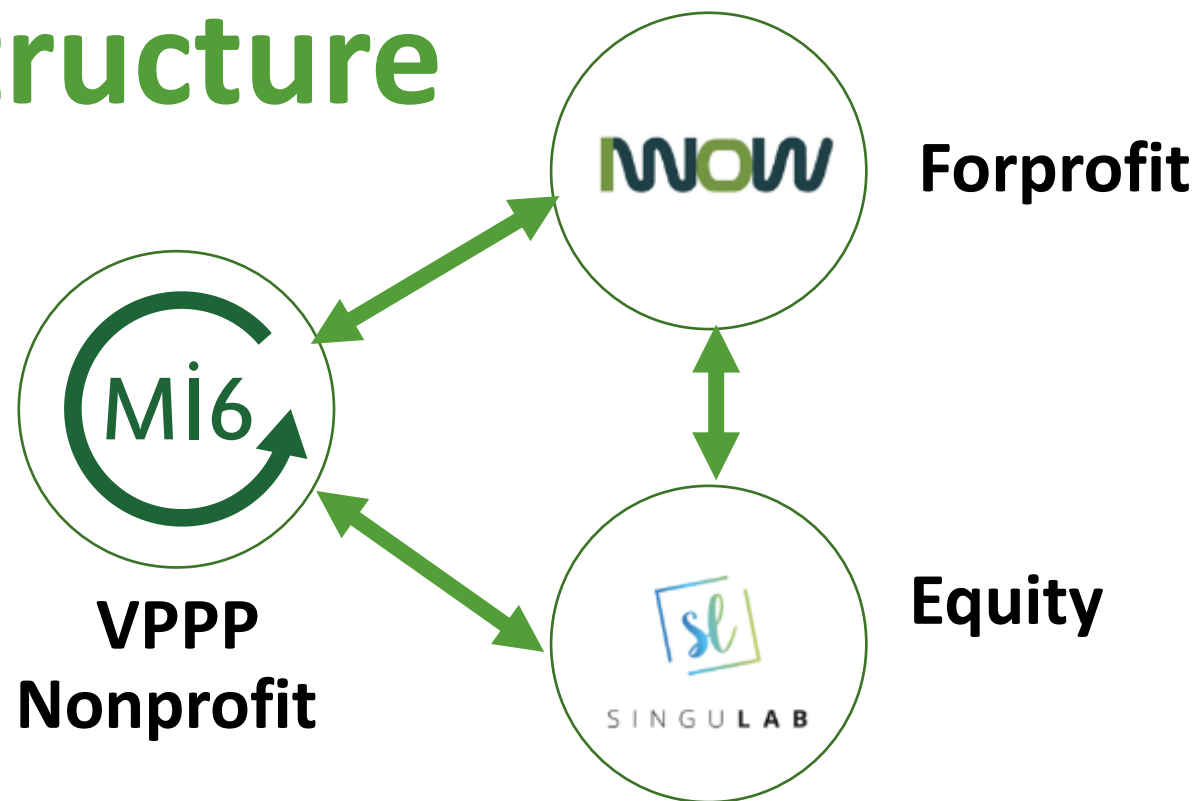
4 + 12 countries



2020

- Households
- Expansion
- Health and waste programs

# Structure

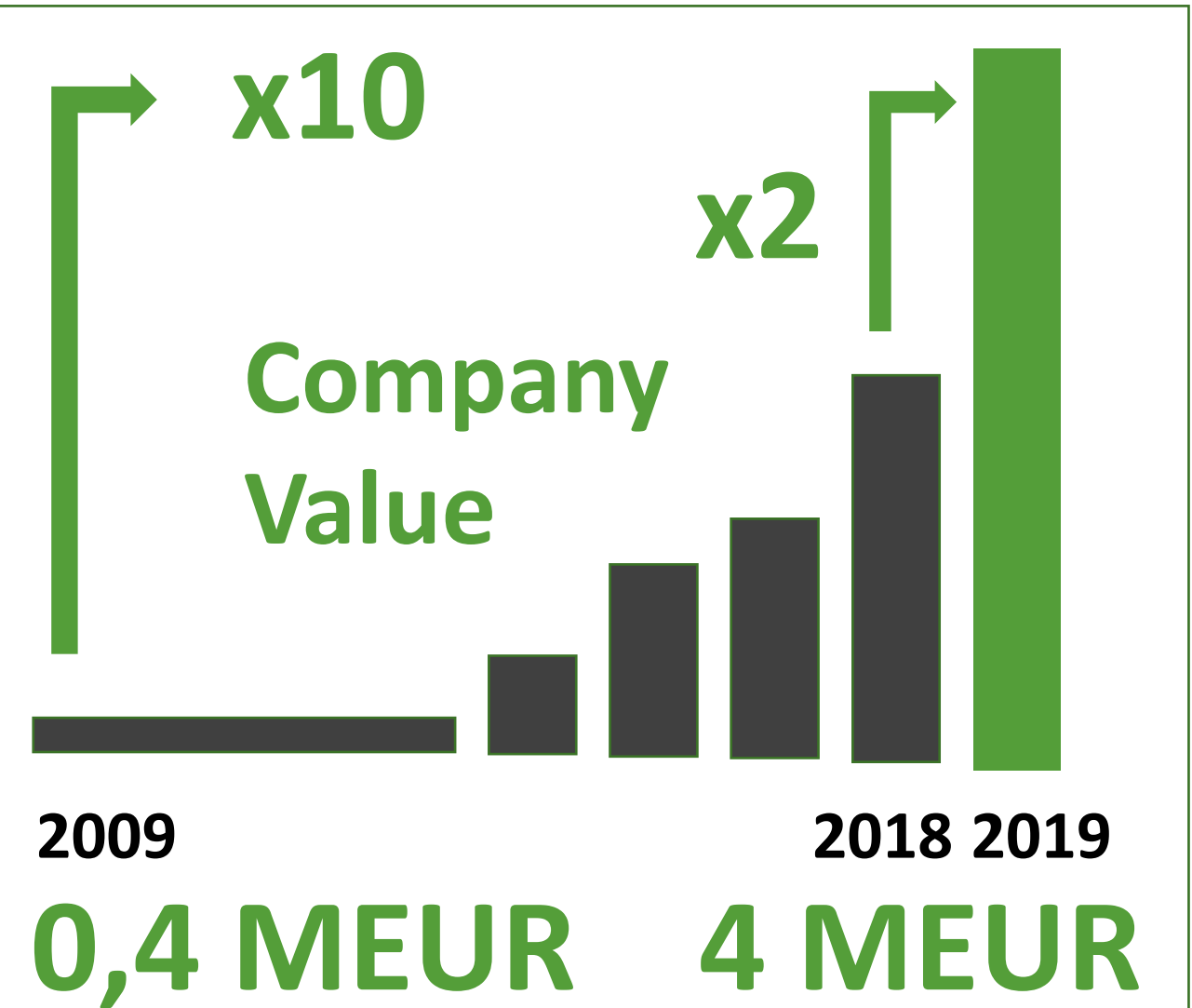


x10

Company Value

x2

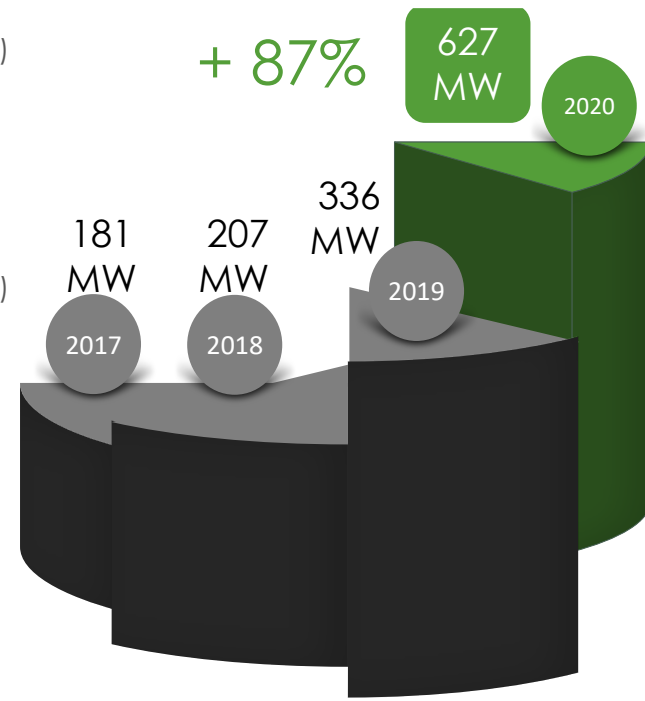
2009 2018 2019  
0,4 MEUR 4 MEUR







336	VIRTUÁLIS (2019. márc.)
395	Csepeli
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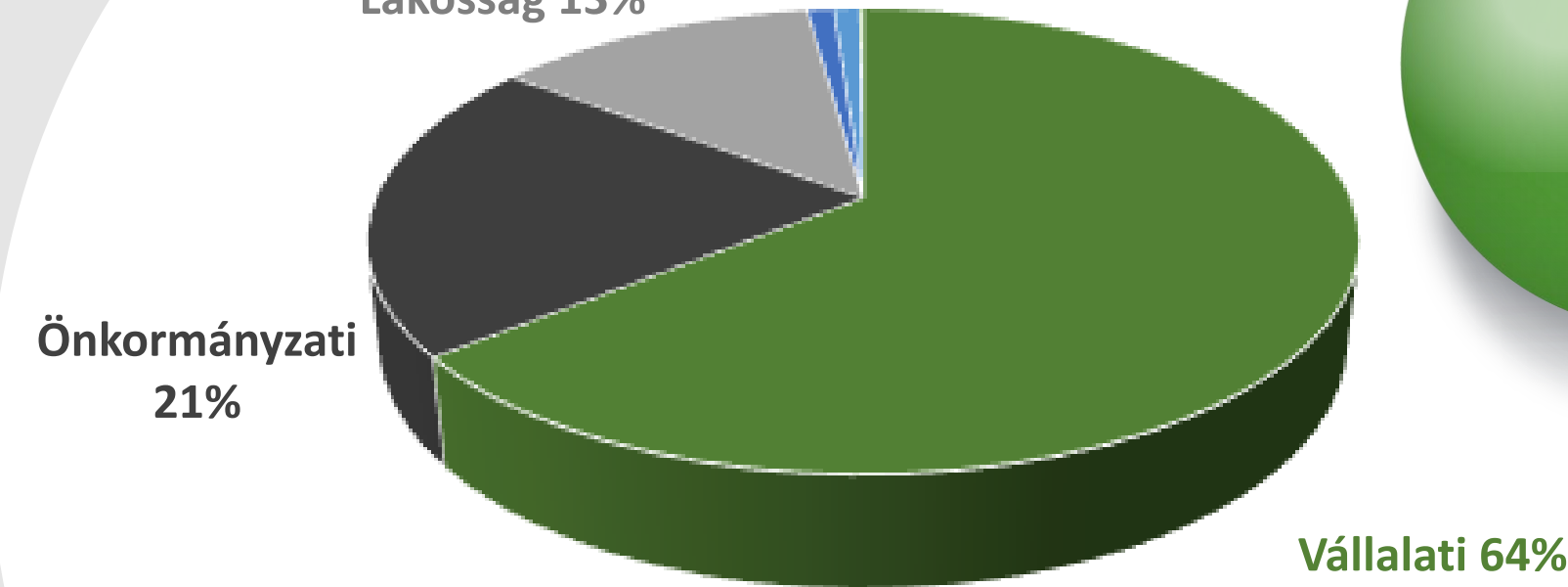
# COMPANIES

- 9000 domestic
- 200 international
- 400 MW – 64%



1

Nemzetközi 1%  
Intézményi 1%  
Iskolai 0%



2

# MUNICIPALITIES

- 3 VPPP counties + Capital
- 70 SECAPs
- Climate strategies
- 132 MW – 21%

Vállalati 64%

3

# SCHOOLS

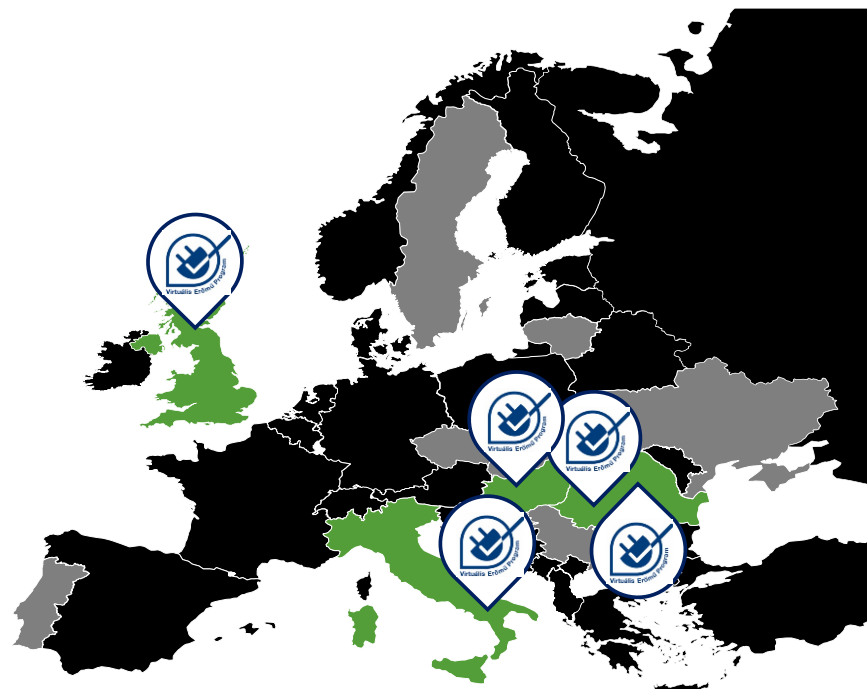
- Approx. 400.000 students
- 500+ events
- Pilot Programme

VPPP = 627 MW (2020. march)

4

# INTERNATIONAL

- 4 + 12 countries
- 6 MW – 1 %



3 MW	POTENZA VPPP (UK)
2 MW	TIMIS VPPP (I)
0,5 MW	DURHAM VPPP (RO)
0,1 MW	ALBA IULIA VPPP (RO)
66 MW	FŐVEP
12 MW	KEVEP
4 MW	BAVEP
n.a.	FEVEP



# Student Programs



Energy Conscious  
Schools Program

FENNTARTHATÓSÁGI  
Témahét



Action for Climate  
Protection  
Through All Age  
Groups

## Schools are awarded for:

Energy efficiency and renewables investment (as  
all VPPP members)  
Local awareness raising actions  
Participation in Climate Actions

## Key Data:

80% of the learning material is provided by MI6  
Learning material is based upon VPPP practices  
400.000 students/year  
More than 400 schools/year

## About the program:

All age groups are targeted from nurseries to  
young adults (18+)  
Learning material is based upon VPPP practices  
Online and offline activities  
Supporting but not replacing school activities



# Results



Action for Climate Protection Through All Age Groups

## Pilot Results

Quantifiable results in the nursery program, behavioural change, lexical knowledge, even spin off effects on other family members



Energy Conscious Schools Program

## Performance

Became a well known program 50+ awardees per year, 1.800 students involved in local actions more than 100 schools downloaded the online learning material



# Thank you!



OLETICS, Zoltan  
Program Lead

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Hungarian Innovation and Efficiency Nonprofit Ltd.

Virtuális Erőmű Program™ / Virtual Power Plant Programme

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