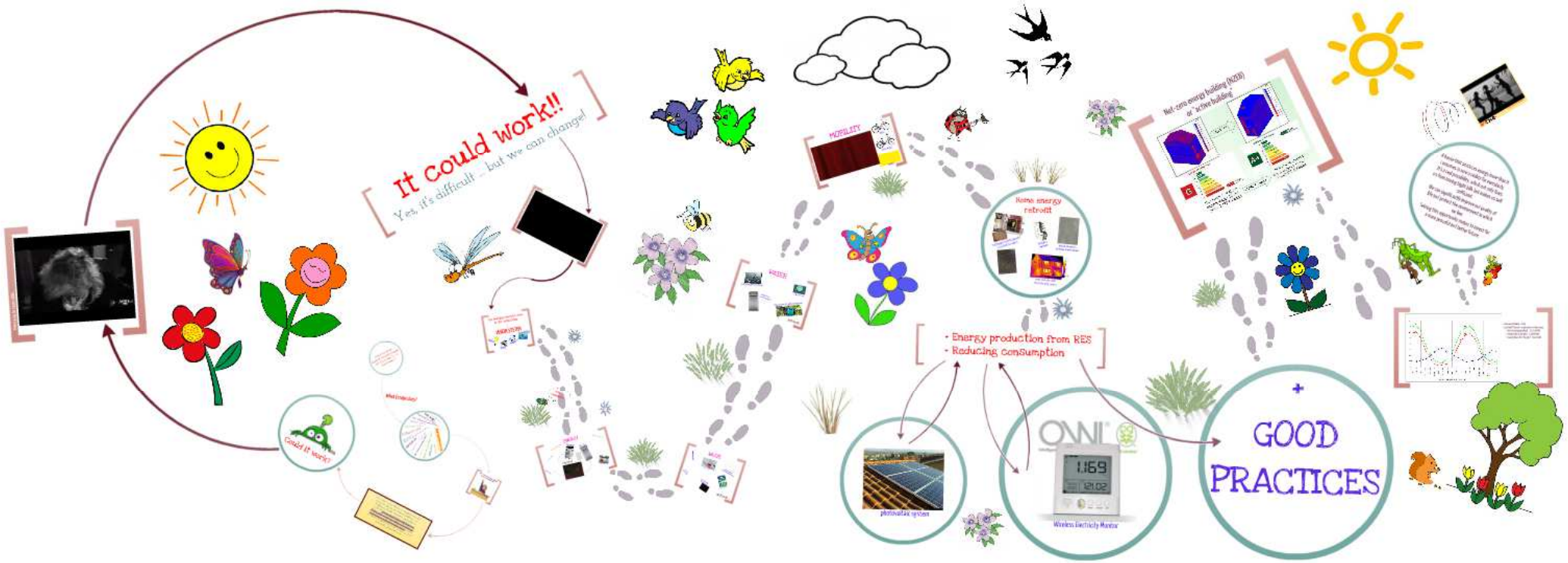

It could work!!
Yes, it's difficult - but we can change!
- Energy production from RES
- Reducing consumption
+
GOOD PRACTICES

Now it is clear:
against climate change
all of us have to do
something !!

What Europe does?

press the right arrow

Kyoto Protocol

EFFORT SHARING

COVENANT OF MAYORS

SEAP - Sustainable Energy Action Plan

Adaptability Plan

Invariance Plan

RESILIENT CITY

LIFE Programme
L'Instrument Financier Pour l'Environnement

TRANSITION CITY

SMART CITY & SMART GRID

ELENA - European Local ENergy Assistance

European Energy Efficiency Fund EEF

M2RES "From Marginal to Renewable Energy Sources Sites"

HORIZON 202020

Kids 4 climate

Net-zero energy building (NZEB)

2020

Kids 4 climate

Energy Sources Sites"

und EEEF

Net-zero energy building (NZEB)

What are the nearly zero energy buildings? What features should have them?

press the right arrow

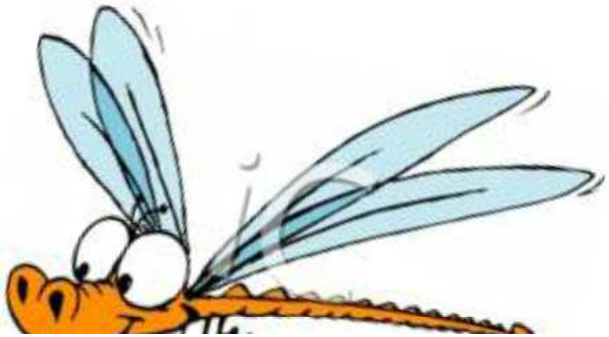
According to the definition supplied from the directive, the net zero energy building is a "building to highest energetic performance with an energy requirement much low or almost null, covered in meaningful measure from energy from renewable sources, inside produced of the border of the system (in situ)"
= enough vague definition

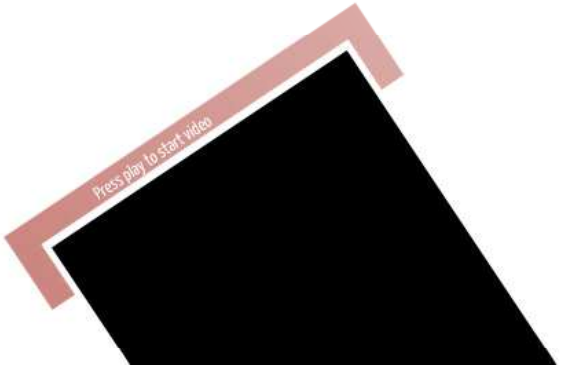
Could it work?

Press play to start video

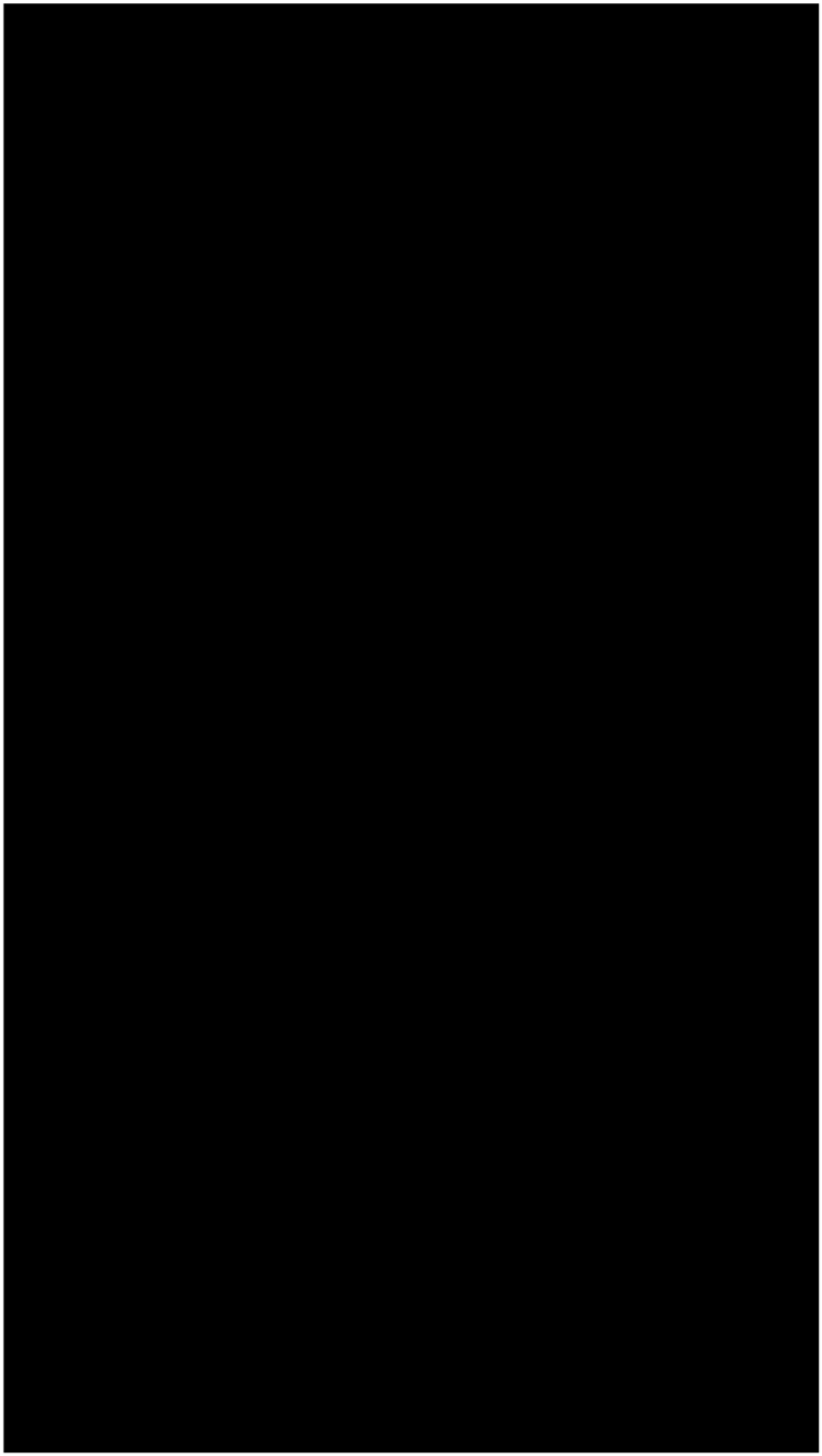
It could work!!

Yes, it's difficult ... but we can change!





Press play to start video



The building must be seen in its complexity

VISION SYSTEM

ENERGY

WASTE

MOBILITY

WATER

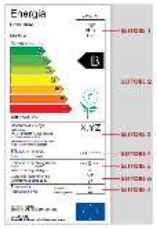
Some examples

ENERGY

REDUCED CONSUMPTION

rechargeable batteries

magnetic induction hob



energy "Class A" domestic appliances

fluorescent light bulbs / L.E.D.

electric heat pump

PRODUCTION BY RES
(renewable energy sources)

photovoltaic system

standby systems

WASTE

refillable glass bottles

cloth napkins

wine in “bag in box”
(wine stored in no glass boxes)

re-usable
cotton diapers

rechargeable batteries

home composting
of organic waste

and so on ...

WATER

dual flushing system for the WC

energy "Class A"
domestic appliances

flow reductor

garden, car wash, etc.. with not drinking water

and so on...

MOBILITY

Press play to start video

bicycle

electric bicycle

PIEDIBUS

Home energy retrofit

heating system fuelled by pellet to rench all three floors

PVC frames (windows)

thermal and acoustic insulation of walls and roof

energy valuation with thermal imaging camera

energy valuation with
thermal imaging camera

+ Energy production from RES
+ Reducing consumption

photovoltaic system

energy valuation with
thermal imaging camera

+ Energy production from RES
+ Reducing consumption

OWL®

intelligen d control

Wireless Electricity Monitor

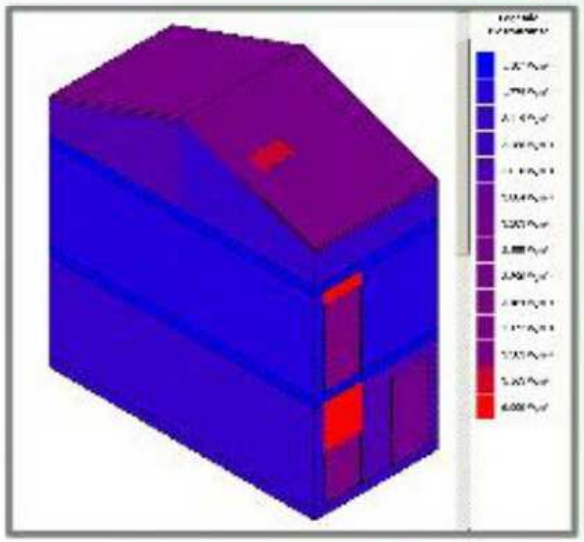
Prezi

energy valuation with
thermal imaging camera

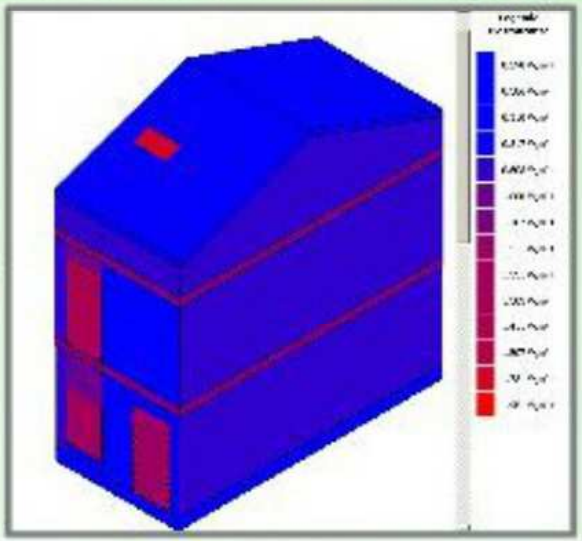
+ Energy production from RES
+ Reducing consumption

+ GOOD PRACTICES

Net-zero energy building (NZEB) or "active building"



- 5,43 t CO_2



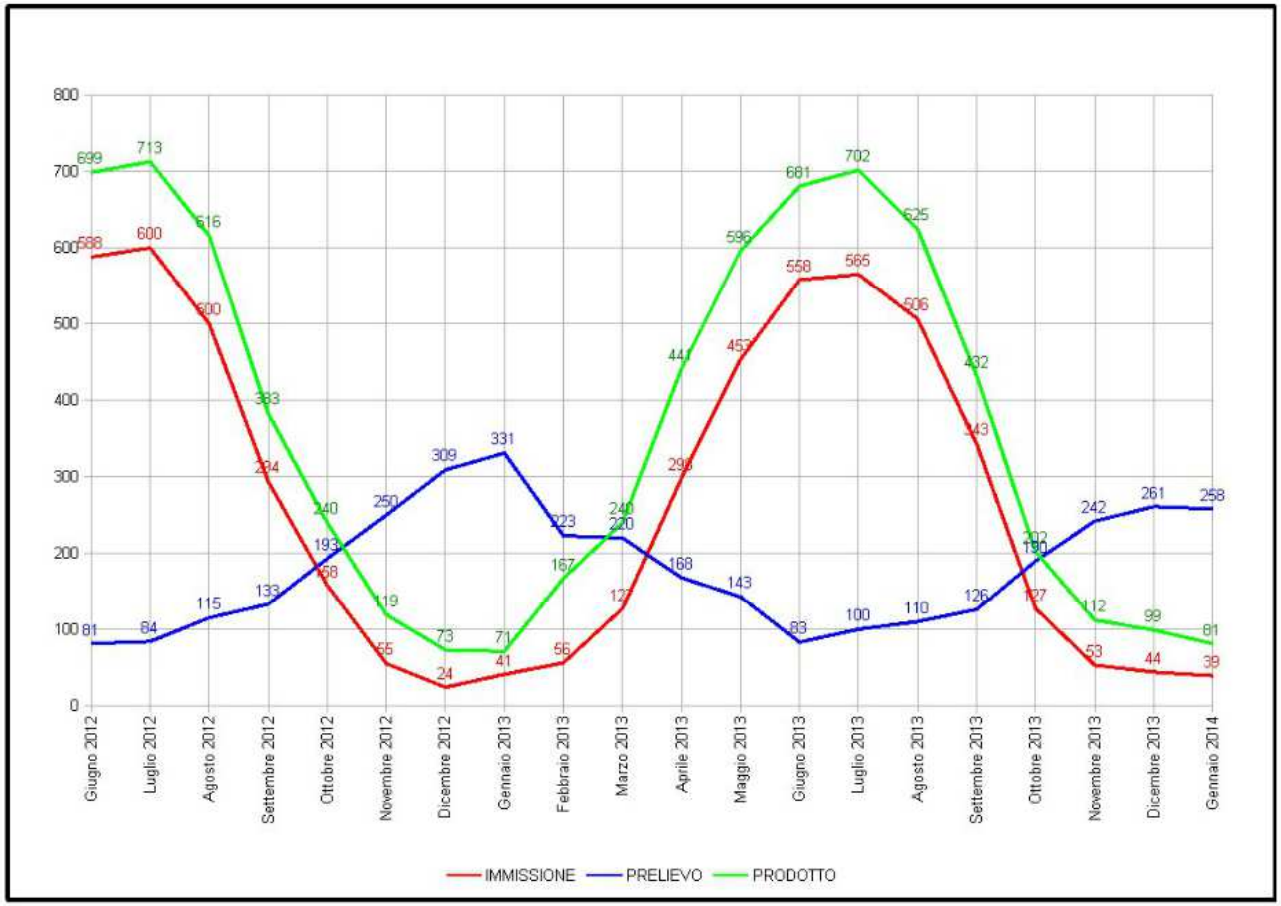
CLASSE ENERGETICA

CLASSE ENERGETICA

Combustibile metano
appartamento 100 m²
Spendi **2.175 € / anno**

- 2.000 € / anno

Combustibile metano
appartamento 100 m²
Spendi **175 € / anno**



A real case (Modena - Italy)

4.25 kWp PV system in operation for three years:

- electric energy produced = 13.959 kWh
- energy fed into the grid = 10.633 kWh
- energy drawn from the grid = 6.317 kWh

A house that produces energy more than it consumes is now a reality for everybody.
It's a real possibility, which not only frees us from having hight bills but makes us self sufficient.
We can significantly improve our quality of life and protect the environment in which we live.
Seizing this opportunity means to invest for a more peaceful and better future.

Wrocławskie Centrum Badań EIT+

Tanks for attention!!