



## Zero/PLUS ENERGY STANDARD instead of PASSIVE

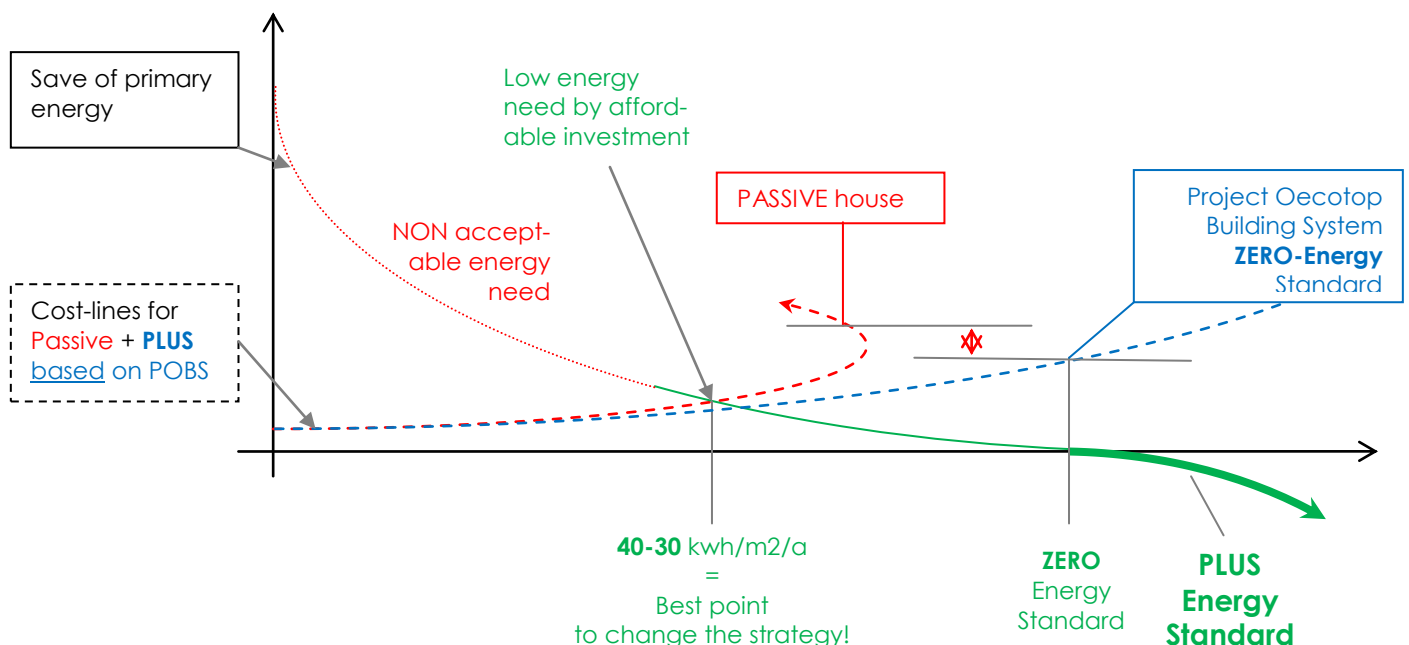
Example of the importance & advantage of HOLISTIC concept.

The idea of PASSIVE house is no or very low need of primary energy need to for heating and hot water. Basically the idea & intention behind is not bad, but the strategy is not very efficient.

To realize this, a very high amount of resources, technology & labor need to be invested extra.

For example: In case of L-shape 'Project Oecotop Homes of Health' with **1,890 sq ft** (net) living-area, the "update" to passive standard would cost around **21-25.-€/sq ft** extra.

BUT the update to **ZERO-Energy** Standard cost **15-18.-€/sq ft** extra ONLY!



From special point on (40-30kwh/m2/a) the **strategy of insulation loose efficiency and becomes too expensive**. Why spending many thousand of Euros for insulation & technology to SAVE 150-250,-€ per YEAR for wood-pellets (heating and hot water)? Why **risk-for-health** by glue-bounded-chip-boards, mould and other toxic materials?

We can **save** money AND many times more **fossil CO2** by **CHANGING** the **STRATEGY** for example by producing own electricity and fuel for daily need of car!

A very nice example is the concept of our "Phoenix Estate" (from 40 houses on/based on POBS). With this human settlements can **produce** at least **all energy** it needs for it self - **fuel/energy for cars, etc. inclusive!**

All 'Phoenix Estates' effect a rise of biodiversity and takes care for nice balance between privacy, communication & individuality as well.

Finally, taking account for all advantages, the total costs are **not** higher.

S o l u t i o n   i n s t e a d   o f   C o n f u s i o n !

