

















The basis of the case study

 My task: The investigation of the possibility of LED lightning installment powered by wind farm in a small Spanish town



Considerations, researches

- Why renewable energy source?
 - Available for everyone, cost effective, eco-friendly, there is no fear of run-down
- Why wind power?
 - Biomass: it is simple to install, but more expensive
 - Solar energy: modern, but expensive, and space-consuming
 - Wind-power: it is the most effective in point of the town



Calculations, planning

- The development of public lightning would go off with cost effective LED lamps
- Considering the costs of the installment:
 - about €100,000 would be annually saved for the local government
- Not a short run investment
 - return of the costs:

7-10 years



Development of the concept

- Not only the public lightning, but the supply of the whole town's energy needs by wind farms
- 15-18 wind farms (costly investment)
- An investment in the long run, which would produce profit after 14-16 years, but the town would be totally power-supplied in the future

Resources

- www.alternativenergia.hu
- http://www.innoteka.hu/cikk/a vilagitastechn ika uj jelszava led it be.1102.html
- Further resource: My case study

Thank you for your attention!