Proposed topics for “Advanced …”

Knowledge	Understandable	Pres. Skills

1. Solar power plant for electricity generation – solar tower Rade
2. Geothermal energy for electricity generation Karol
3. Modern biomass combustion techniques.
4. Biomass high temperature gasification for el. energy demand.
5. Ocean wave energy to electrical energy. Jose Miguel
6. Modern windmills for electricity production. Natalia
7. Natural gas power plant. Erdem
8. Biogas production from biomass. Carlos
9. Biogas prod. from wastes gasification. Joanna
10. Torrefaction of biomass.
11. Hydropower. Jose Silva
12. Off-shore wind usage for pow. Gen. Justyna
13. Modern coal fired power plants. Lisa
14. IGCC technology.
15. Fixed bed gasification.
16. Coal and biomass drying technologies.
17. Modern waste combustion techniques. Diogo
18. Nuclear power plant - advanced:
    A. Water cooled reactor
    B. Gas cooled reactor
    C. Liquid metal cooled reactor
19. Nuclear power plant wastes. Maciej
20. Fuel cells for electricity production Juanmiguel
21. Plasma combustion techniques.

Presentation should consist:

Introduction, Main body, Conclusion, Power generation connected with the topic (if possible) in presenter’s country (2-3 slides)*, Literature – new sources not older than 2010 – 2013. The presentation should take **20** min (with 2-3 min for questions)

*Please to remember that you have to add some information about energy production, power plant installation, state of the art in energy topic in your country, the share of energy production market. Could be cost of energy 1kWh without transmission , with transmission,

Main website: http://www.oxyfuel.eu/

Another one: http://fluid.itcmp.pwr.wroc.pl/~hkruczek/, http://www.spalanie.pwr.wroc.pl/dydaktyka.htm,