

Proposed topics for "Advanced ..."

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

Knowledge	Understandable	Pres. Skills
Luis MILLAN		
Wojciech Kuchta		
DANIEL VALENCE		
MACIEJ KRAWCZYK		
LUCIA DIAZ GONZALEZ		
HENRIK BALEK		
SZYMON WATEGA		
SERGIO GARCIA		
SEBASTIAN SCHNEIDER		
Muhammed AYDIN		
CARLOS GUILLENMO DOMINGUEZ - PALACIOS DURAN		
BILAL YURK		
VISHNU SURESH		
Andrii Uspen		
Adrian Gogola		

Presentation should consist:

Introduction, Main body, Conclusion, Power plant systems, interesting information, share of renewable source, price of electricity (connected with the topic or nor) in presenter's country (2-3 slides)*, Literature – new sources not older than 2010 – 2013. The presentation should take **15** 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/~hkruzec/>, <http://www.spalanie.pwr.wroc.pl/dydaktyka.htm>,