

São Paulo School of Advanced Science on Renewable Energies - SPSASRE 2018

	Lectures	Subject	Youtube Playlist	Youtube Video	Slides
Solar PV	J. Aquiles Grimoni and Stefan Krauter	Introduction of solar photovoltaic Global evolution of facilities and industry Research and New Technologies	Playlist Solar PV	Lecture 1 Lecture 2 Lecture 3	Slides Solar PV
Solar Thermal	Claudio Pacheco and Soteris Marcelo Lemos	Introduction Solar Thermal Solar collectors and applications. Design and Modeling of solar thermal systems Industrial Process Heat Solar Power Systems Volumetric Solar Absorber Analysis	Playlist Solar Thermal	Lecture 1 Lecture 2 Lecture 3 Lecture 4 Lecture 5 Lecture 6	Slides Solar Thermal
Fuel cells and Hydrogen	J. Simões-Moreira and Gerhard Ett	Fuel cell - working principles Fuel cell - types Hydrogen production and storage for fuel cells Fuel cell - final usage. Automotive, Distributed generation	Playlist Fuel cells and Hydrogen	Lecture 1 Lecture 2 Lecture 3 Lecture 4	Slides Fuel cells and Hydrogen
Marine Renewable Energy	J. Aquiles Grimoni and Paulo Jorge Rosa Santos	Introduction to Marine Renewable Energies Tidal Energy Wave Energy - Generation and propagation of ocean waves. Wave Energy - Resource characterization.	Playlist Marine Renewable Energy	Lecture 1 Lecture 2 Lecture 3 Lecture 4	Slides Marine Renewable Energy
Biomass	Suani Coelho Charles Kinoshita Eric Larson Luiz Cortez Jose Luz Silveira	Introduction to Bioenergy Advanced technologies for biomass energy conversion. Advanced technologies for biomass energy use Biomass energy use - viability analysis Biomass energy use - LCA and value chain Biofuels in Brazil Some Applications in Bioenergy and Renewable Energy	Playlist Biomass	Lecture 1 Lecture 2 Lecture 3 Lecture 4 Lecture 5 Lecture 6 Lecture 7 Lecture 8	Slides Biomass
Wind	Demetrio C. Zachariadis and Zhen Gao Zhen Gao Ahda Pavani and Katherine Dykes Katherine Dykes	Introduction to wind power Dynamic Analysis, focusing on Vertical Axis Wind Turbines. Wind power: control and operation of turbines and farms. Wind power: Wind farm optimization.	Playlist Wind	Lecture 1 Lecture 2 Lecture 3 Lecture 4	Slides Wind