

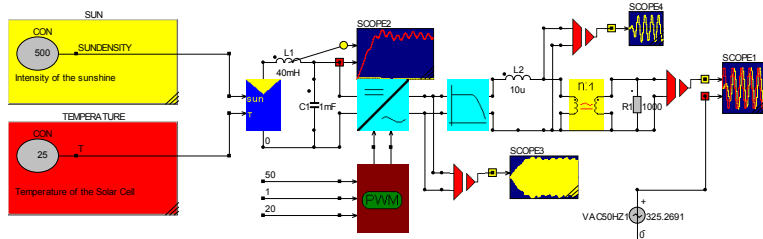
Caspoc

Fast and Easy Power Electronics and Electrical Drives Simulation

Green Renewable Energy

Renewable Green Energy is the future. Stay ahead and simulate Green Energy with Caspoc. Models are provided for Solar Cells, Wind Turbines and Fuel Cells.

Solar Cell with inverter and supply to the Grid



Features:

- Solar Cell model with load dependency
- Wind Turbine with variable pitch control and wind speed characteristics
- DFIG (Doubly Fed Induction Generator)
- PMSG (Permanent Magnet Synchronous Gen.)
- Planetary Gear, Stiff Shafts
- Wind Speed characteristics
- Fuel cell model with load dependency from CFD or detailed model

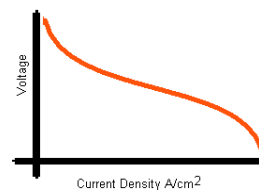
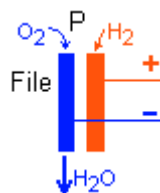
Wind Turbine models



The wind turbine model has variable pitch control and can be supplied with wind speed characteristics

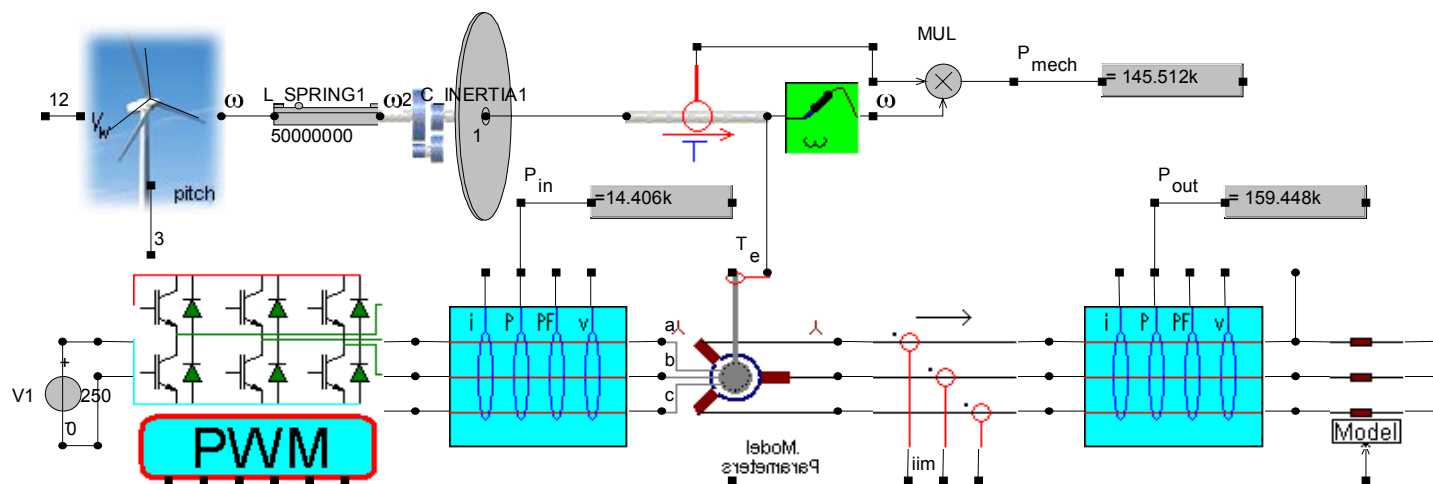
Fuel cell

The Fuel cell can be modeled either based on the voltage-current relations from a CFD package or the detailed model including hydrogen pressure and temperature.



Wind turbine with doubly fed induction generator

The Wind Turbine is connected via a stiff shaft and gearbox to a DFIG (Doubly Fed Induction Generator). The rotor of the generator is fed from an Inverter. Electric Power from the DFIG is fed into the main grid.



*Summarizing,
stay ahead in Green design
for a better future
quick and easy.*