

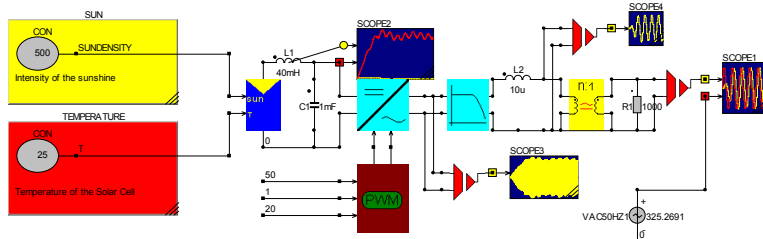
# Casposc

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 Casposc. 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

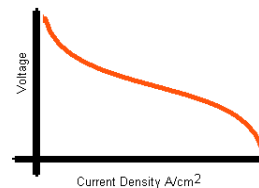
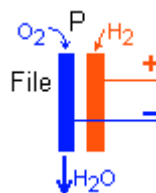
### Wind Turbine models



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

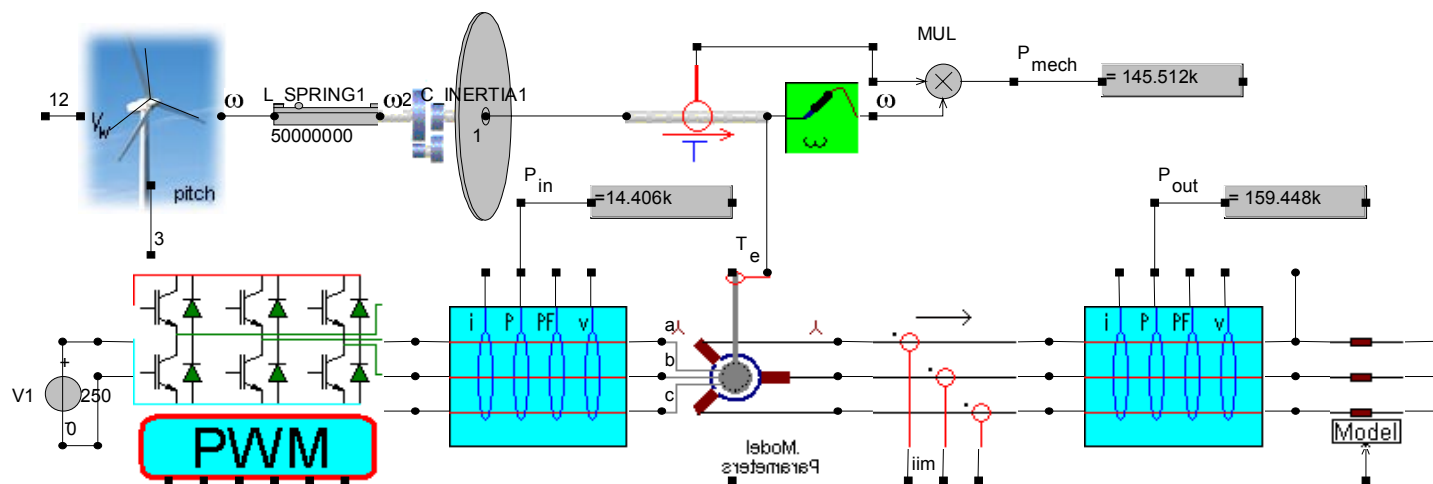
### Fuel cell

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.*