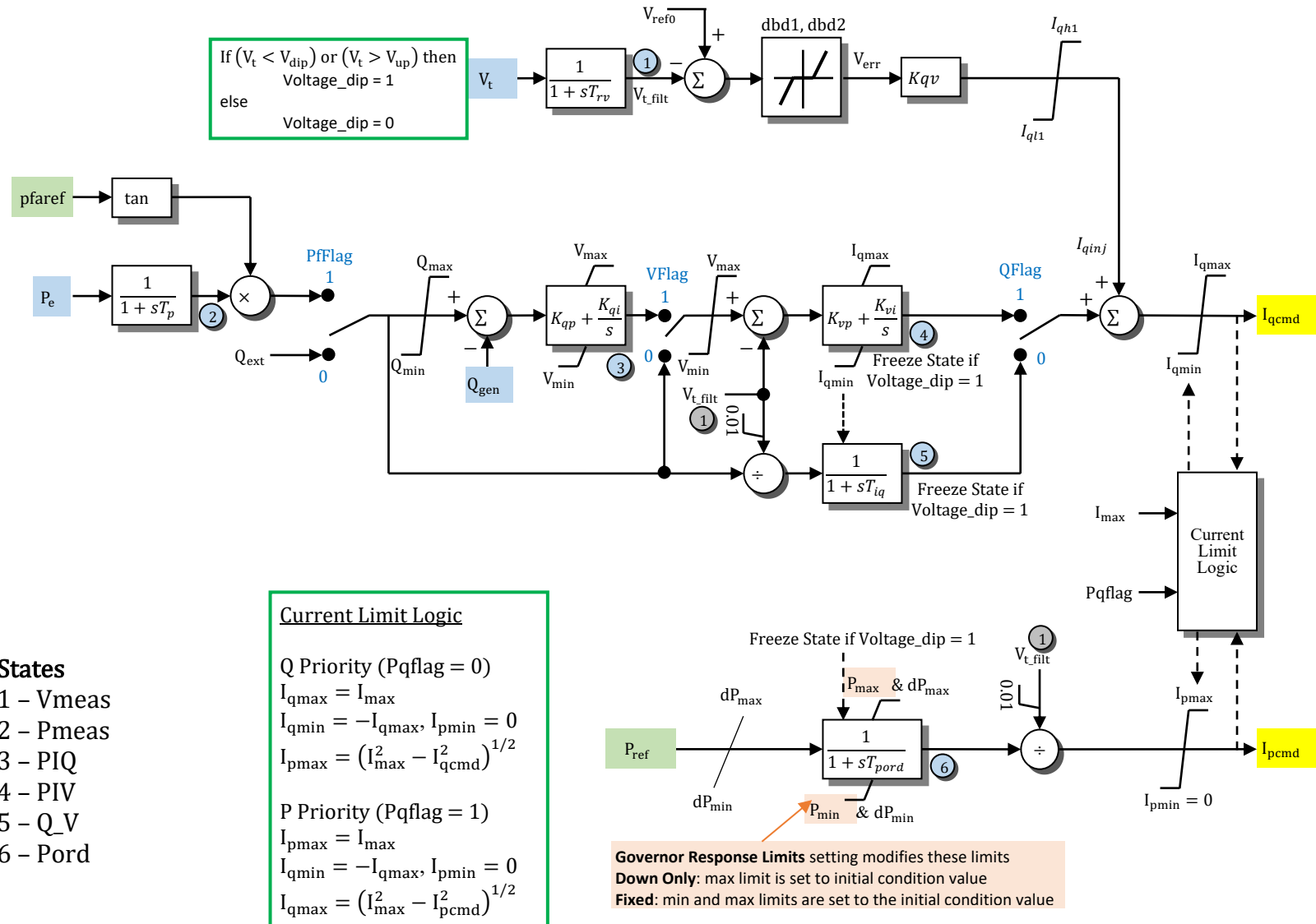


Exciter REEC_B and REECB1

Renewable Energy Electrical Control Model REEC_B and REECB1



Current Limit Logic Psuedo Code

The following pseudo-code describes how the values for `Ipmax`, `Ipmin`, `Iqmax`, and `Iqmin` are updated.

```
local_V = StateVtfilter // Vt State 1
Iqmax = Imax
Ipmax = Imax

if PQFlag = 0 then begin // Q priority [default]
    Iqmin = -Iqmax
    local_I = Sqr(Imax) - Sqr(Iqcmd)
    if local_I < 0 then local_I = 0
    else local_I = sqrt( local_I )
    if local_I < Ipmax Then Ipmax = local_I
    Ipmin = 0
end
else Begin // P priority
    Ipmin = 0
    local_I = Sqr(Imax) - Sqr(Ipcmd)
    if local_I < 0 then local_I = 0
    else local_I = sqrt( local_I )
    if local_I < Iqmax Then Iqmax = local_I
    Iqmin = -Iqmax
end
```