# Governor IEEEG1, IEEEG1_GE and IEEEG1D

**Governor IEEEG1, IEEEG1_GE and IEEEG1D**
**IEEE Type 1 Speed-Governor Model**



← Only in IEEEG1D

**footnotes:**

Input and Outputs are on the Trate base.
If Trate = 0, then machine MVABase is used.

**Governor Response Limits** setting modifies these limits
**Down Only**: max limit is set to initial condition value
**Fixed**: min and max limits are set to the initial condition value
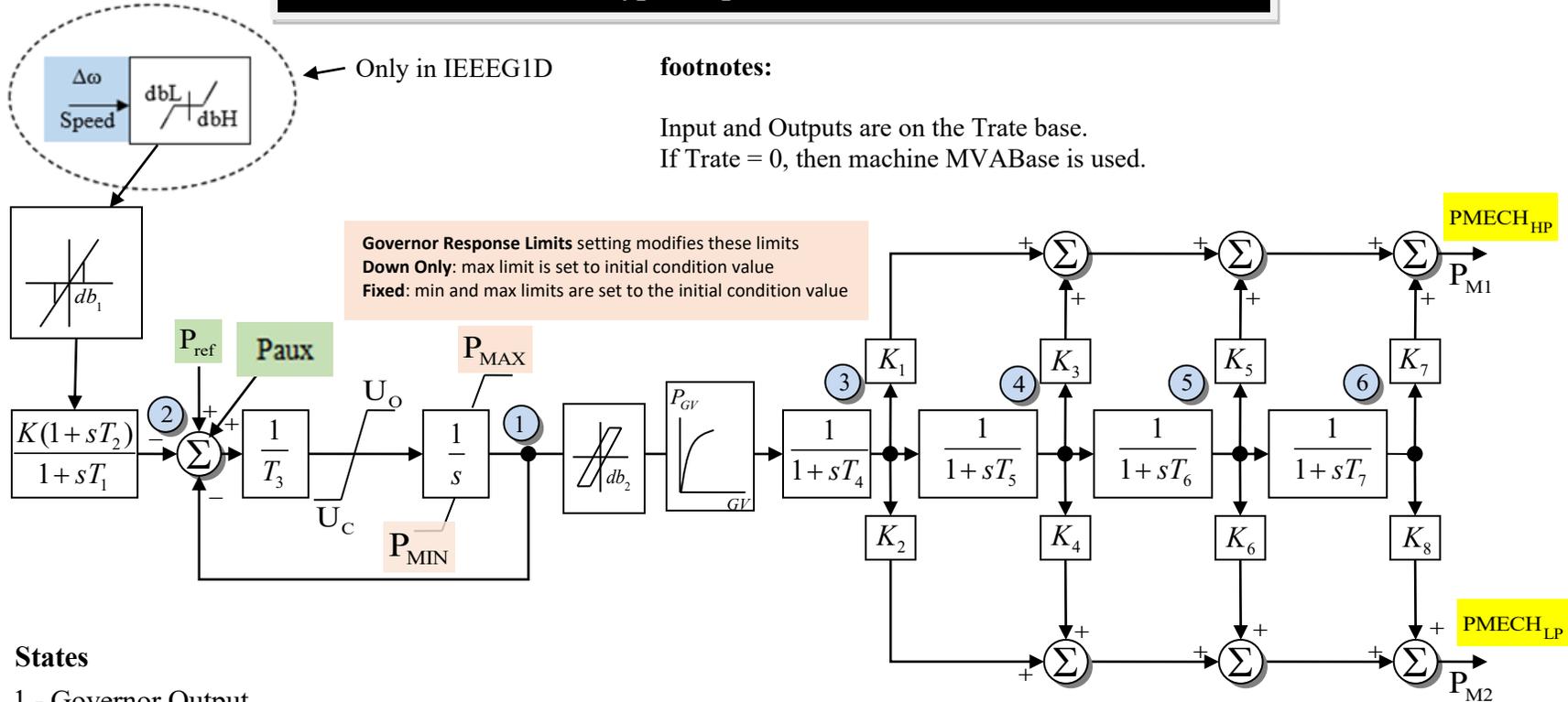
## States

1 - Governor Output

2 - Lead-Lag

3 - Turbine Bowl

4 - Reheater

5 - Crossover

6 - Double Reheat

IEEEG1_GE is supported by PSLF. All values are specified on the turbine rating which is a parameter in PowerWorld and PSLF. If the turbine rating is omitted or zero, then the generator MVABase is used. If there are two generators, then the SUM of the two MVABases is used.

IEEEG1 is supported by PSSE. PSSE does not include the db2, db1, non-linear gain term, or turbine rating. For the IEEEG1 model, if the turbine rating is omited then the MVABase of only the high-pressure generator is used.

GV1, PGV1...GV6, PGV6 are the x,y coordinates of $P_{GV}$ vs. *GV* block