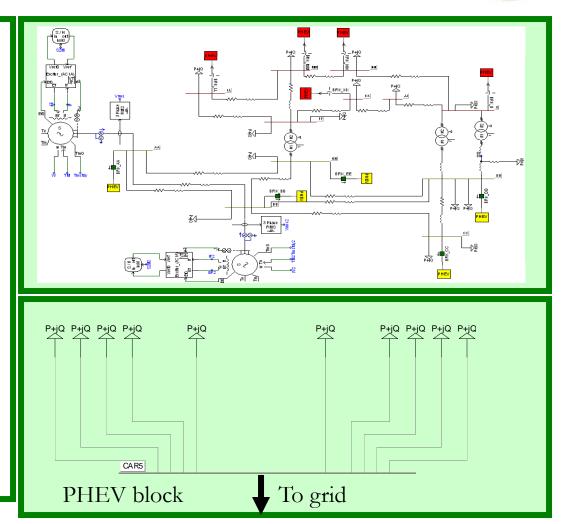


Impact on a Microgrid of Increased Market Penetration of PHEVs



Goal

- To study the potential impact high market penetration of PHEVs on regional electricity supply
- Controlled and uncontrolled charging scenarios
- PSCAD/EMTDC simulation studies using IEEE 14 Bus test case





Impact on a Microgrid of Increased Market Penetration of PHEVs



- Results show the changes in base load due to increased PHEV penetration
- Gen II can only supply a max of 40MW
- Extra power demand due to PHEV load is supplied from Gen I
- Studies important for regional planning of power supply

