# IEEE 14-bus

**File** : case14.py

**Source** : Pypower library <https://github.com/rwl/PYPOWER/tree/master/pypower>

**Files** : IEEE 14 bus.epc ; IEEE 14 bus.pwb ; IEEE 14 bus.pwd ; IEEE 14 bus.raw

**Sources** : Illinois Center for a Smart Electric Grid (ICSEG) <https://icseg.iti.illinois.edu/power-cases/> and Texas A&M University's Electric Grid Test Case Repository <https://electricgrids.engr.tamu.edu/electric-grid-test-cases/>

**File** : pglib\_opf\_case14\_ieee.m

**Source**: Power Grid Lib (pglib) (for OPF) <https://github.com/power-grid-lib/pglib-opf>

# IEEE 14-bus modified test system (with dynamics data)

It “consists of 5 synchronous machines with IEEE type-1 exciters, 3 of which are synchronous compensators used only for reactive power support. There are 19 buses, 17 transmission lines, 8 transformers and 11 constant impedance loads. The total load demand is 259 MW and 73.5 MVAr.”

**Files**: “IEEE 14-bus modified test system data.pdf” & IEEE14.emf & IEEE 14 Bus\_modified.pwd & IEEE 14 Bus\_modified.pwb & IEEE 14 Bus\_modified.pfd

**Source**: University of Cyprus repository with “Dynamic IEEE Test Systems for Transient Analysis” <https://www2.kios.ucy.ac.cy/testsystems/index.php/ieee-14-bus-modified-test-system/>