# New England IEEE 39-bus system

**File** : case39.py

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

**Files** : PSLF/IEEE 39 bus.epc & PSLF/IEEE 39 bus.dyd *(dynamics)* ; IEEE 39 bus.pwb ; IEEE 39 bus.pwd ; PSSE/IEEE 39 bus.RAW & PSSE/IEEE 39 bus.dyr *(dynamics)*

**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\_case39\_epri.m

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

**File**: Table description of the system in Chapter 4 of “Pattern Recognition of Power System Voltage Stability using Statistical and Algorithmic Methods.pdf”

**Source**:<https://scholarworks.uno.edu/cgi/viewcontent.cgi?referer=https://scholar.google.com/&httpsredir=1&article=2426&context=td>

# IEEE 39-bus modified test system (with dynamics data)

It “contains 49 buses, 32 transmission lines, 24 transformers and 10 generators. It has 19 constant impedance loads totaling 6097.1 MW and 1408.9 MVAr. All the generators are equipped with an IEEE type-1 exciter and a simple turbine governor, except generator 39 which is an aggregation of a large number of generators and is considered not to have a governor.”

**Files**: “IEEE 39-bus modified test system data.pdf” & IEEE39.emf & IEEE 39 Bus\_modified.pwd & IEEE 39 Bus\_modified.pwb & IEEE 39 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/>

# New files

Cyprus version implemented in Dynawo, will publish it soon