Simulation Topology and Important Parameters

This document provides topological diagram for distribution network simulation, along with the capacity parameters of the connected controllable photovoltaic (PV) converters and energy storage (ES) converters.

The topological diagram for distribution network simulation is shown in Fig. 1:

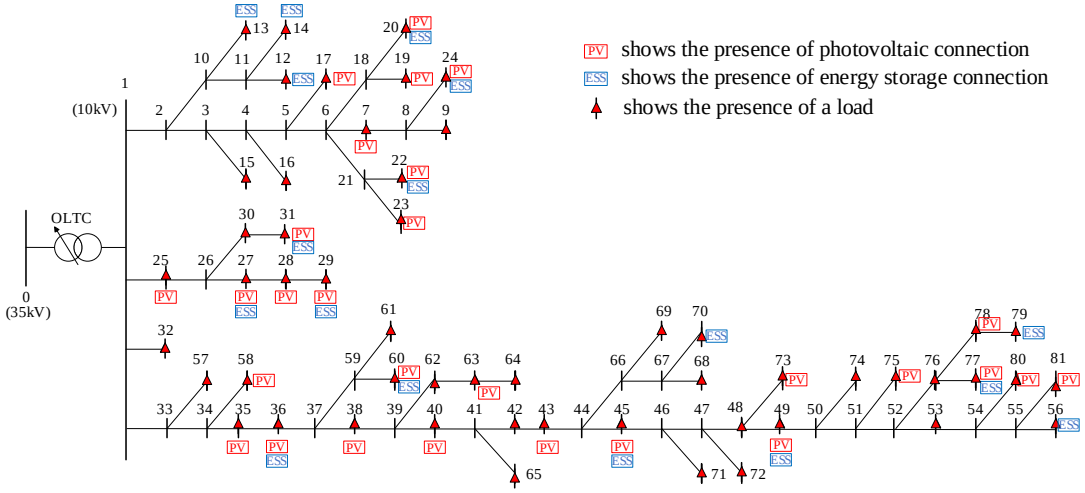

Fig. 1 Topology diagram of 10kV ADN

The capacity parameters of the controllable PV converters and ES converters are shown in Table I:

TABLE I

PARAMETERS OF CONTROLLABLE PV INVERTERS AND ESS INVERTERS

Controllable Resources	Nodes	Controllable Capacity/MVA
Energy Storage Converter	12、13、14、20、22、24、27、29、31、36、45、49、56、60、70、77、79	0.2
Photovoltaic Converter	22、25、27、36、38、58、63、73、77、78	0.06
	23、24、31、43、60、75、81	0.12
	17、20、28、35、45、80	0.24
	7、19、29、40、49	0.36