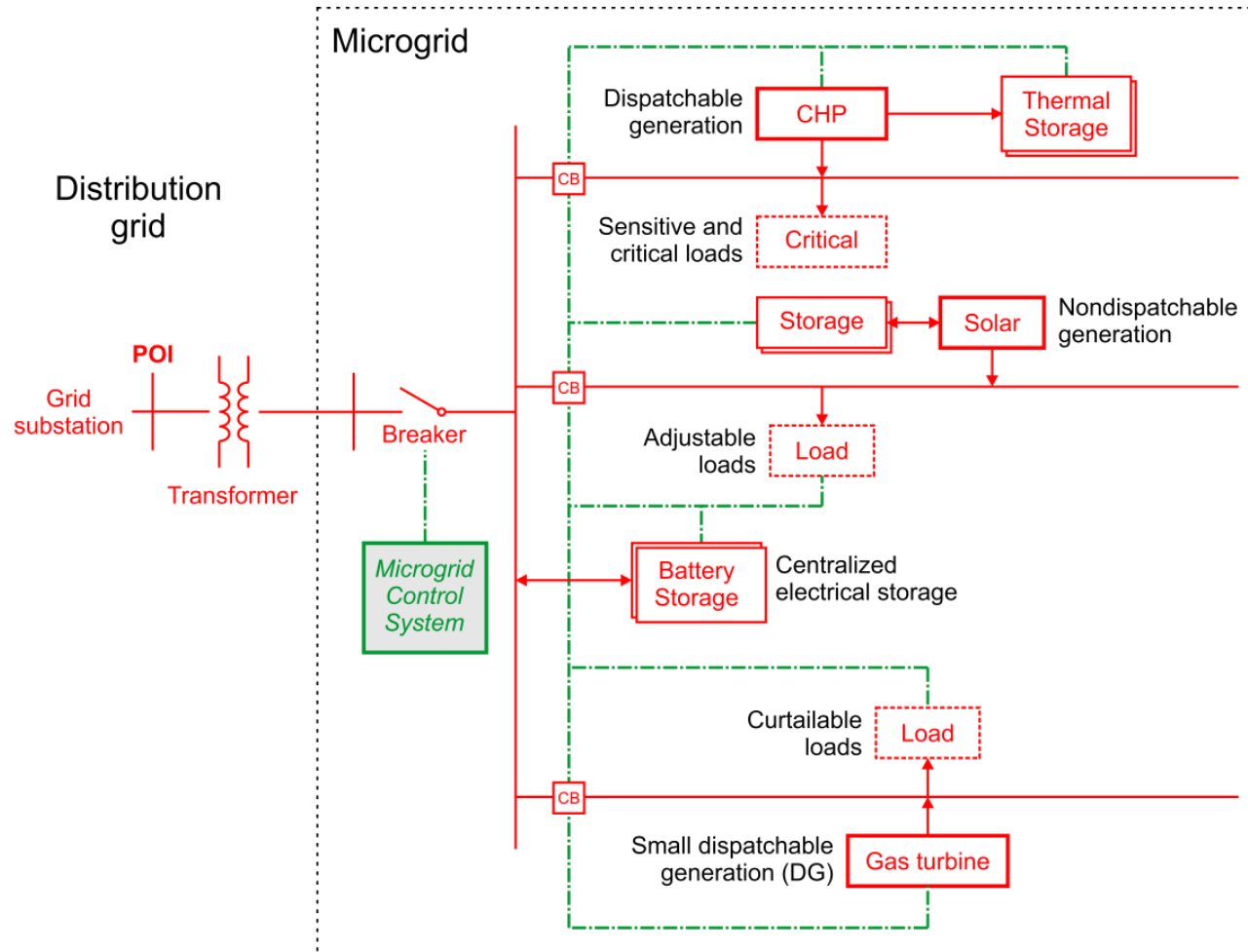


# MODULE 5

## Primary Controllers for Grid Forming Inverters



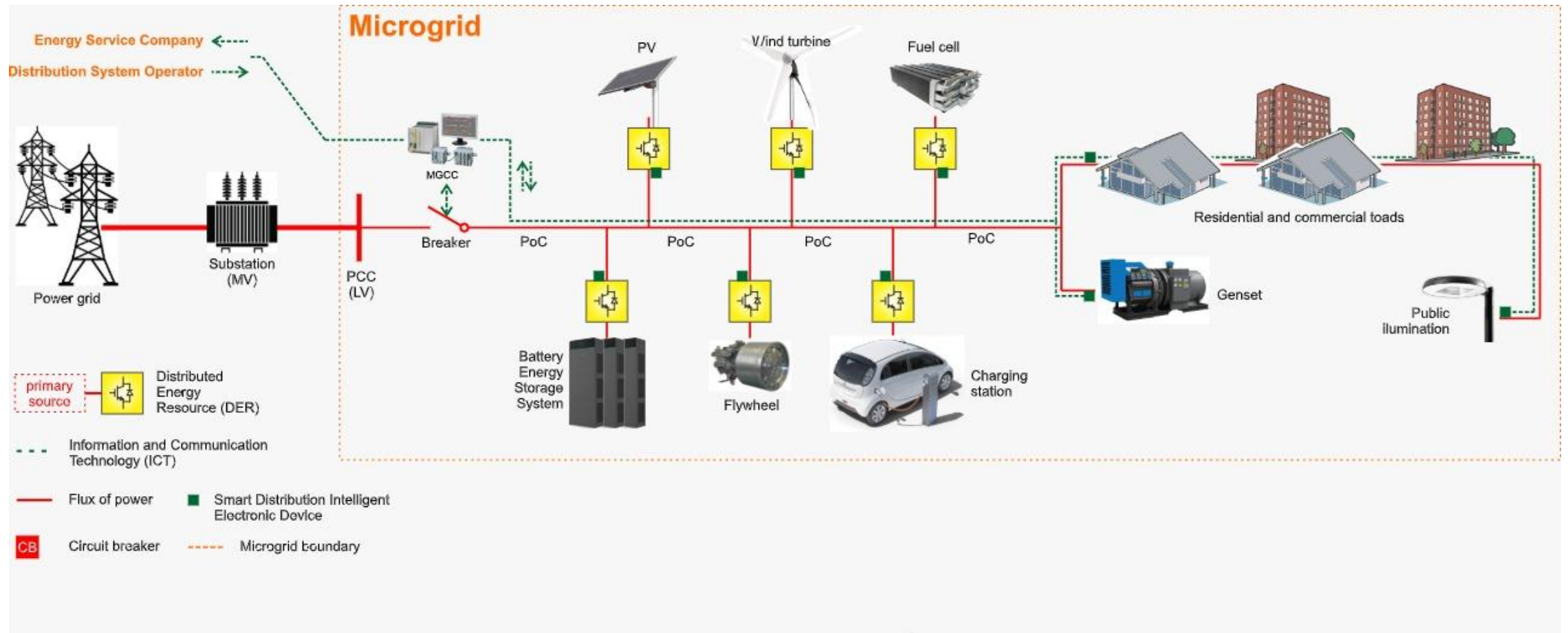
# Introduction to Microgrids



Source: IEEE Std 2030.8-2018. IEEE Standard for the Testing of Microgrid Controllers

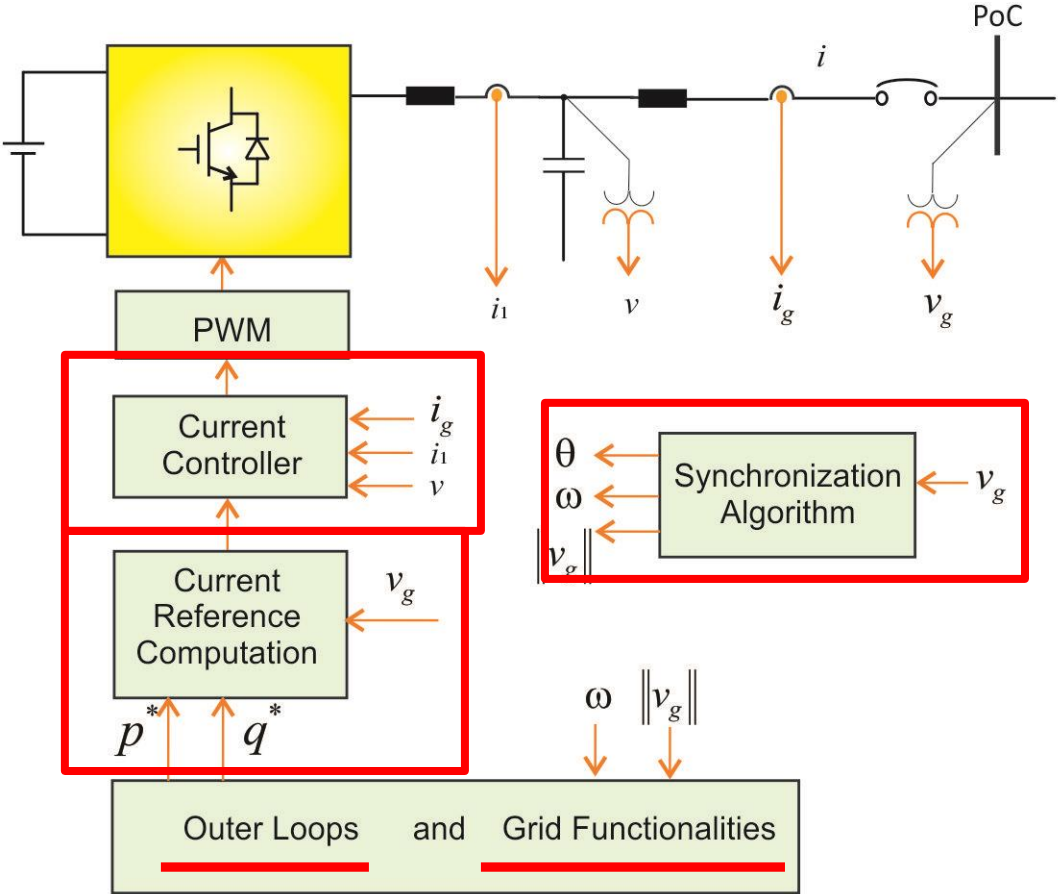


# Introduction to Microgrids

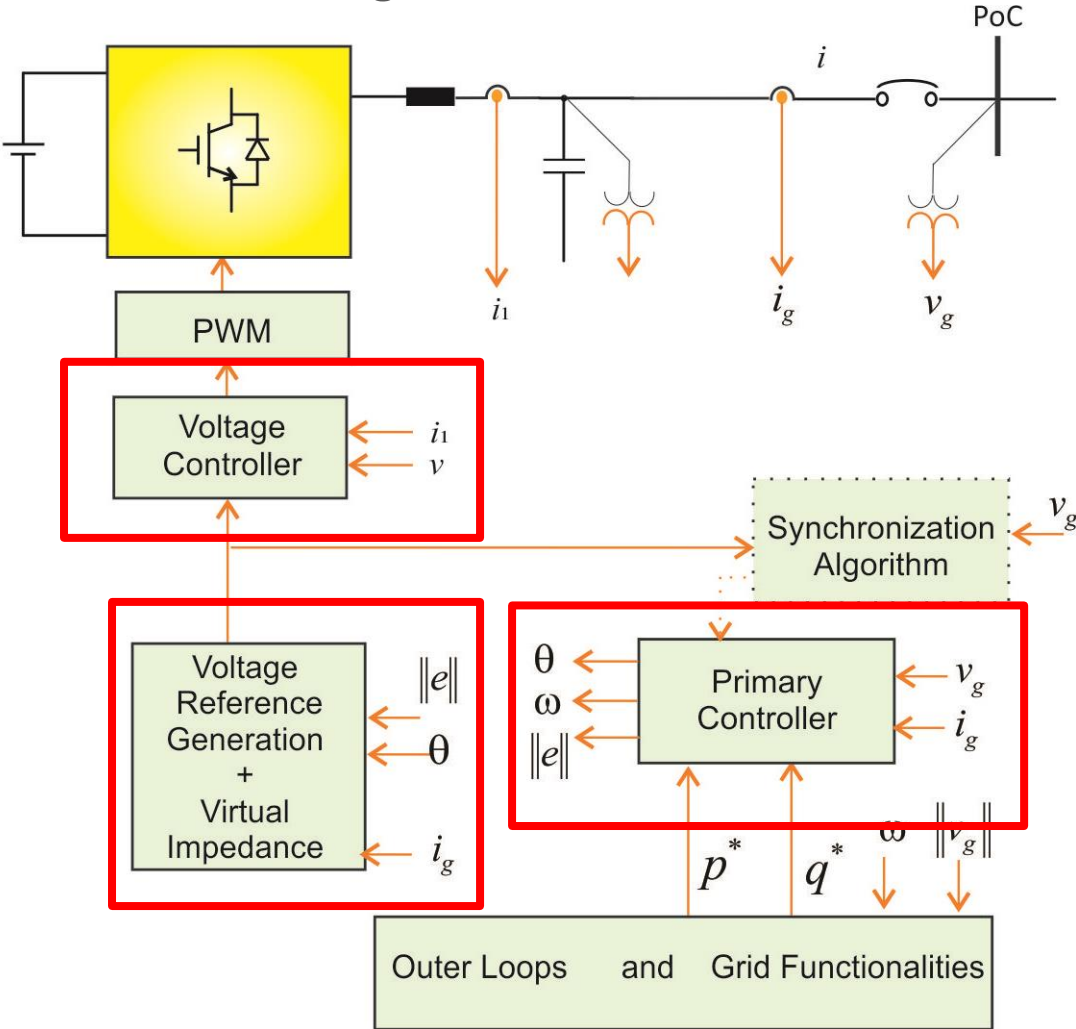


# Introduction Grid Tied Converters

## Grid Following Inverters



## Grid Forming Inverters



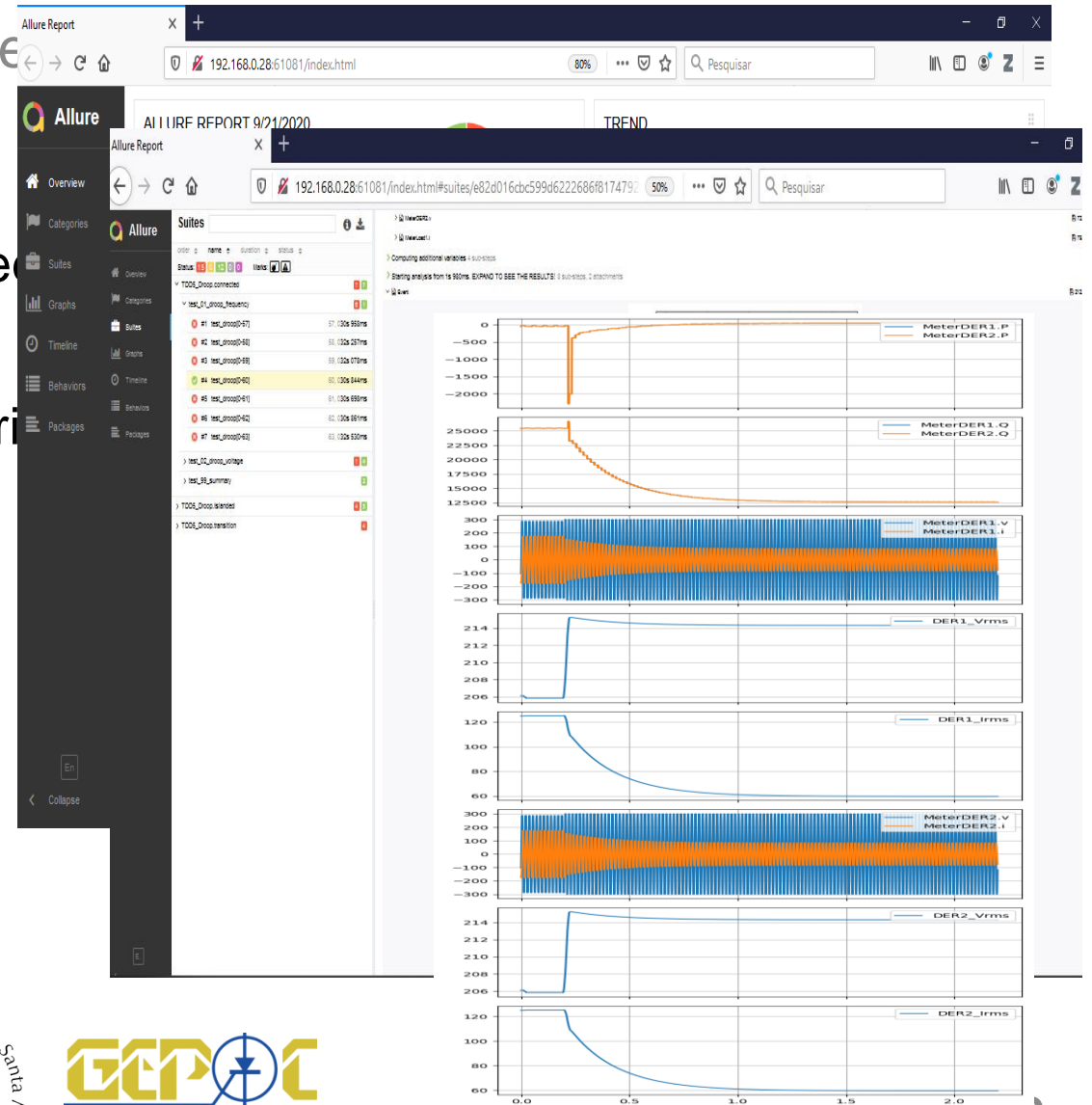
# Grid-Forming Inverter Controllers



# Course Goals

By the end of this module you should be able

- To recognize the difference between the three
- To select the main design parameters of a pri
- To get familiar with a test-driven approach
- To understand the weak and strong points of the considered primary controllers.



# Primary controllers for Grid Forming Inverters

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- Droop Control;
- Virtual Synchronous Generator;
- Dispatchable Virtual Oscillator;
- Others;

