

Ville neuss microgrid applications

A variety of FC types, which are distinguished by the electrolyte that is used, have been studied since the last century. Basic information about these FC types can be summarized in Table1 [17].

At the two interfaces of the membrane there are the layers with catalyst particles. The best catalyst for both the anode and the cathode has been the platinum. The catalyst particles are supported on larger carbon particles.

The polymer membrane, with catalyst layers settled on the two sides, is sandwiched between two sheets of porous layers, which are called GDLs. These layers are typically made out of carbon cloth or carbon fiber paper. One of the functions of GDLs is to allow diffuse of both the reactant gases and product water. Besides, GDLs also perform as the electrically conductive electrodes and the heat-conducting mediums. The membrane, CLs, GDLs are usually combined together as the membrane electrode assembly (MEA).

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