

VI. CONCLUSION

Renewable energy systems such as fuel cell and wind technologies that can be considered for electric power generation. With the increase in load demand, the Renewable Energy Sources (RES) are increasingly connected in the distribution systems which utilizes power electronic Converters/Inverters. The most up to date topologies of grid-connected transformerless photovoltaic converters rely on the use of additional switches to fix the common mode voltage at the output of the power converter. Each of the five presented converters has a high efficiency, is suitable for unconventional energy applications and is integrated in systems that are already on the market. This paper is the result of trying to create realistic models of every topology, using the new technology of SiC semiconductors and analyze them and simulation results also presented as well as THD values well within IEEE standards.

VII. REFERENCES

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