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**Abstract: DC distribution systems—an overview**

This talk examines the existing and future dc distribution systems which have a wide range of applications in data centers, telecommunication systems, residential homes, commercial buildings, space crafts, electric vehicles and aircrafts. The advantages and disadvantages of a dc distribution system are compared against their ac counterpart. Also, different dc distribution architectures and bus structures are presented. Dc distribution systems are discussed from the cost, reliability, efficiency, and safety standpoints.