that more capacity DG can be connected near substation. Method explained in section three can be used to analyze the distribution feeder which has already been laid and loads at each bus are known. In order to reduce the voltage distortion in the feeder, this analysis can be done and excess DG's connected can be removed. It is observed that, the size of the DG will be more when they are connected near to the substation and distortion increases with the increase in the distance of bus from the substation. The equations have been developed according to acceptable harmonic analysis assumptions wherever possible.

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