

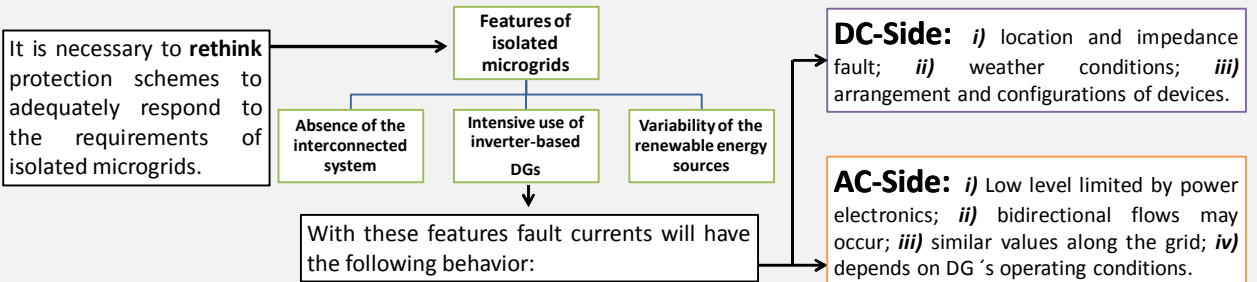
Introduction

Isolated microgrids have received much attention in recent years due to their ability for electrifying zones typically disconnected from the main grid. Among the most important challenges of isolated microgrids is the **design and operation of the protection scheme**, in order to recognize system **abnormalities and faults**.

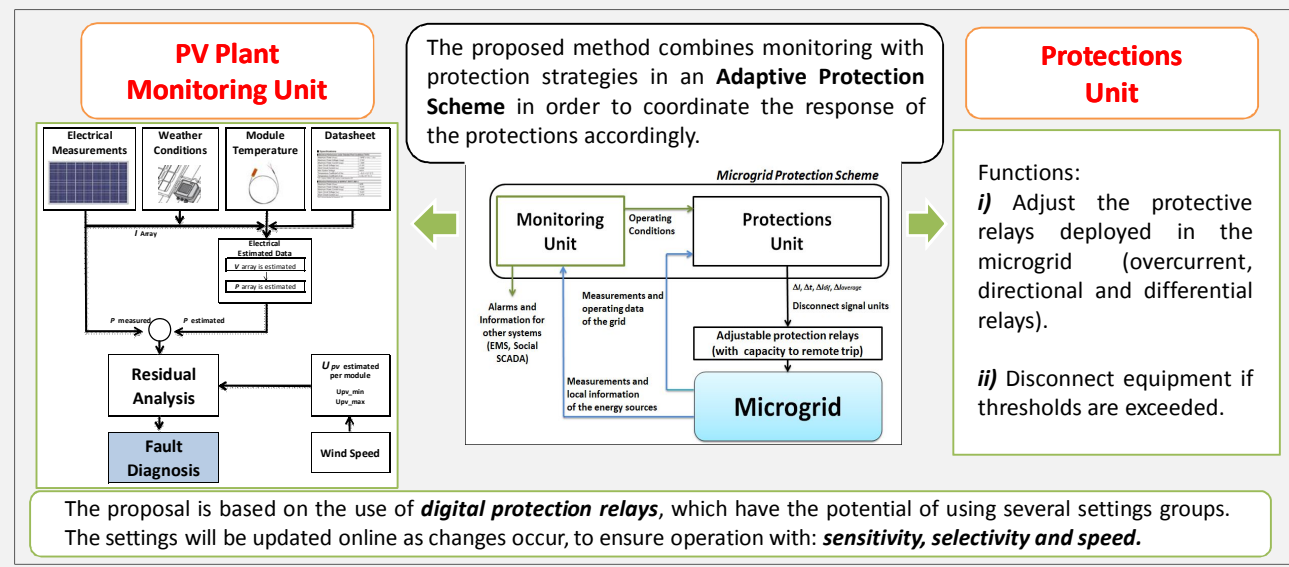


AC low voltage isolated microgrid in Huatacondo, Chile

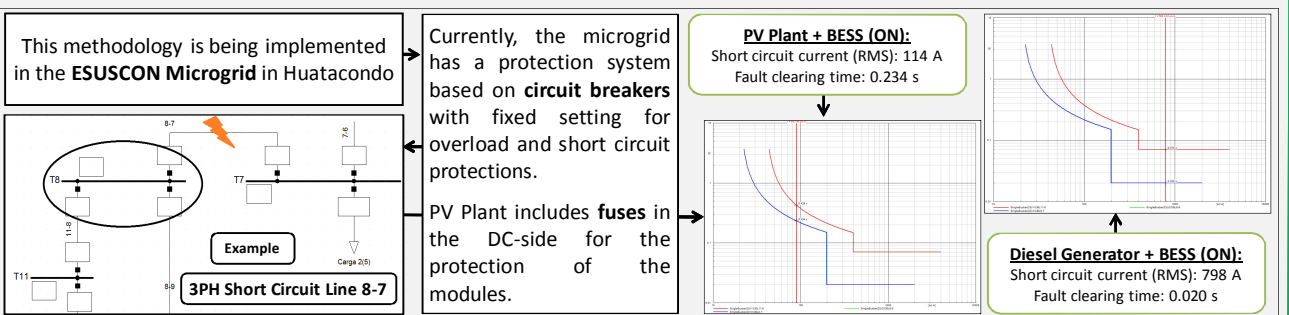
Problem Statement



Proposal



Case Study: An example



Conclusions

This poster presents a method for monitoring and diagnosis of PV plant based on a model as part of an adaptive protection scheme designed for isolated grids. The experimental results showed that the proposed method is effective to diagnose the PV plant of an isolated grid. Finally, the analysis of the microgrid showed the need for an adaptive protection scheme.