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Dafang Zhao, Fukohito Ooshita, *Member, IEEE* and Michiko Inoue, *Member, IEEE*

Abstract—Power generation efficiency of photovoltaic (PV) systems is significantly affected by partial shading and PV cell damage. Partial shading or PV cell damage induces mismatched power generation among PV panels. Conducted bypass diodes under mismatch conditions result in loss of efficiency in power generation.

John Doe Biography text here.

Index Terms—IEEE, IEEEtran, journal, L^AT_EX, paper, template.

I. INTRODUCTION

AS fossil fuel depletion and environmental pollution, green and renewable energy become necessary for a sustainable society and environment.

A. Subsection Heading Here

Subsection text here.

1) Subsubsection Heading Here: Subsubsection text here.

II. CONCLUSION

The conclusion goes here.

APPENDIX A

PROOF OF THE FIRST ZONKLAR EQUATION

Appendix one text goes here.

Jane Doe Biography text here.

APPENDIX B

Appendix two text goes here.

ACKNOWLEDGMENT

The authors would like to thank...

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Michael Shell Biography text here.

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