

Article

Quantifying the Economic Impact of Supply Voltage Magnitude on Consumers

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Abstract: Increasing penetration of distributed energy resources is manifesting as voltage regulation challenges in many LV networks. Appropriate regulation of supply voltage magnitude is essential to ensure efficacy and efficiency in the operation of electricity supply networks and consumer equipment. While the theoretical impacts of supply voltage magnitude on the performance of consumer equipment, which include additional energy consumption and decreased equipment lifespan as voltage magnitude increases, are relatively well known, this has not been translated into quantitative impacts. This paper applies the outcomes of previous impact of supply voltage magnitude studies by the authors, in conjunction with domestic load models, to develop algorithms to estimate the quantitative impacts of supply voltage magnitude on consumers. The paper then applies these algorithms to calculate quantitative economic impacts that can be associated with the magnitude of the supply voltage. The outcomes of this research suggest that the per-annum impact of supply voltage magnitude on consumer equipment loss of life is potentially an order of magnitude greater than the resultant increased energy consumption based on case studies using Australian data.

Keywords: voltage; economic impact; power quality; supply voltage magnitude



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1. Introduction

Magnitude of the supply voltage is the most fundamental power quality (PQ) parameter and perhaps the most overlooked in terms of assessment of impact. For optimal performance, voltage magnitudes must be maintained within a range suitable for the operation and resilience of equipment. Voltage magnitudes that are too low (undervoltage) or too high (overvoltage) may result in equipment not operating as intended, a reduction in equipment lifespan, or—in extreme cases—catastrophic failure. While there are many qualitative sources, e.g., [1,2], that describe the impact of supply voltage on consumer appliances, there is no comprehensive body of literature that provides a quantitative assessment of the impact of sustained steady-state voltage magnitudes on consumers. This may be due to voltage levels historically being kept close to the nominal voltage in many jurisdictions or because few extensive measurement campaigns have been undertaken in LV networks. However, in recent times, voltage regulation and the magnitude of supply voltage in LV networks have received particular attention due to the widespread installation of smart revenue meters and the proliferation of rooftop solar photovoltaic (PV) generators. Rooftop solar PV generators can lead to increases in LV voltage magnitudes, also known as ‘voltage rise’ [3,4]. In addition, due to connection requirements and for their own protection, solar PV inverters will generally disconnect from the network if the sustained voltage magnitude rises above a threshold. While disconnection of solar PV inverters is a highly visible consequence of voltage magnitude excursions (through alerts to owners), studies have shown that the actual economic impact from loss of solar PV generation is likely marginal for the average consumer [5]. However, the studies have not taken into account the cost of

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Table of Contents Magnitude Economic Impact Of General

1. Understanding the eBook Magnitude Economic Impact Of General
 - The Rise of Digital Reading Magnitude Economic Impact Of General
 - Advantages of eBooks Over Traditional Books
2. Identifying Magnitude Economic Impact Of General
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Magnitude Economic Impact Of General
 - User-Friendly Interface
4. Exploring eBook Recommendations from Magnitude Economic Impact Of General
 - Personalized Recommendations
 - Magnitude Economic Impact Of General User Reviews and Ratings
 - Magnitude Economic Impact Of General and Bestseller Lists

5. Accessing Magnitude Economic Impact Of General Free and Paid eBooks
 - Magnitude Economic Impact Of General Public Domain eBooks
 - Magnitude Economic Impact Of General eBook Subscription Services
 - Magnitude Economic Impact Of General Budget-Friendly Options
6. Navigating Magnitude Economic Impact Of General eBook Formats
 - ePub, PDF, MOBI, and More
 - Magnitude Economic Impact Of General Compatibility with Devices
 - Magnitude Economic Impact Of General Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Magnitude Economic Impact Of General
 - Highlighting and Note-Taking Magnitude Economic Impact Of General
 - Interactive Elements Magnitude Economic Impact Of General
8. Staying Engaged with Magnitude Economic Impact Of General
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Magnitude Economic Impact Of General
9. Balancing eBooks and Physical Books Magnitude Economic Impact Of General
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Magnitude Economic Impact Of General
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Magnitude Economic Impact Of General
 - Setting Reading Goals Magnitude Economic Impact Of General
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Magnitude Economic Impact Of General
 - Fact-Checking eBook Content of Magnitude Economic Impact Of General
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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