



Bank Indonesia's role in the electronification of the digital economy as a form of non-military defense

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ABSTRACT

Non-military defense is a defense to deal with non-military threats that can endanger or have implications for national defense. Non-military threats have ideological, political, economic, socio-cultural, technological, public safety, and legislation dimensions. In the general policy of national defense for the years 2020-2024, it is stated that in the policy of implementing non-military defense, it is directed to deal with the dimensions and types of threats by determining the ministry/institution as the main element. Bank Indonesia realizes that the payment system needs to adapt to the presence of digital technology. To that end, BI has issued a blueprint for the Indonesia Payment System (SPT) 2025, one of whose vision is to support the digitization of banking as the main institution in the digital-financial economy, both through open-banking and the use of digital technology and data in the financial business. The research objective is to provide government input on the role of Bank Indonesia in the Electronification of the Digital Economy as a Form of Non-Military Defense. Research with qualitative methods is aimed at understanding social phenomena from the perspective of participants. The results achieved are in accordance with the Role theory that Bank Indonesia encourages banking digitalization, supports the integration of the national digital economy, ensures interlink fintech and banking, to ensure consumer protection and national interests are maintained.



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Introduction

Non-military defense, also known as non-military defense, is a national defense force built within the framework of national development to achieve national prosperity and prepared to face non-military threats. The non-military defense layer is structured in security functions for public safety which includes handling natural disasters and other humanitarian operations, socio-cultural, economic, defense psychology, which in essence relates to state defense awareness thinking, and technology development (Ambodo 2022).

The main point of the general policy on national defense for 2020-2024 states that the policy for implementing non-military defense is directed at dealing with the dimensions and types of threats by determining the ministries/agencies as the main elements and ministries/agencies and local governments as supporters of the implementation of non-military defense (Arifin 2022). Bank Indonesia (BI) has launched the National Non-Cash Movement (GNNT) on August 14, 2014 which aims to create a safe, efficient and smooth

Being Digital Electronification

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Fluid Power Pumps and the Electrification Samuel Kärnell, 2020-05-25 More and more vehicles are being electrified. Mobile working machines and heavy trucks are not excluded and these machines are often hydraulically intense. Electrification entails new requirements for the hydraulic system and its components and these requirements must be taken into consideration. Hydraulic systems have looked similar for a long time but now there is an opportunity to advance. Many things change when a diesel engine is replaced with an electric motor. For example, variable speed control becomes more relevant, electric regeneration becomes possible, and the use of multiple prime movers becomes an attractive alternative. The noise from the hydraulic system will also be more noticeable when the diesel engine is gone. Furthermore, the introduction of batteries to the system makes the energy more valuable since batteries are heavy and costly compared to a diesel tank. Therefore, it is commercially viable to invest in the hydraulic system. This thesis revolves around the heart of the hydraulic system that also is the root of all evil: That is the pump. Traditionally, a pump has had either a fixed displacement or a continuously variable displacement. Here, the focus is on something in between, namely a pump with discrete displacement. The idea of discrete displacement is far from unique but has not been investigated in detail in combination with variable speed before. In this thesis, a novel design for a quiet pump with discrete displacement is presented and analysed. The results show that discrete displacement is relevant from an energy perspective for machines working extensively at high pressure levels and with low flow rates, and that a few discrete values are enough to make a significant difference. However, for other cycles, the possible energy gains are very limited, but the discrete displacement can be a valuable feature if downsizing the electric machine is of interest.

Advancements in Fluid Power Technology: Sustainability, Electrification, and Digitalization Liselott Ericson, Petter Krus, 2025-08-31 This open access book contains contributions from the Global Fluid Power Society GFPS PhD Symposium 2024. It reflects the collaborative efforts of researchers who are dedicated to pushing the boundaries of fluid power research. The GFPS PhD symposium, established in 2016 as a biannual event, is a platform for exchanging ideas and insights related to fluid power technology among young researchers. It serves as a focal point for the exploration of various technical topics related to fluid power, including components, systems, and applications. Fluid power technology undergoes a rapid transformation towards electrification and digitalization, requiring innovation and new technical solutions across the industry in response to societal requirements on different aspects of sustainability. The book covers a range of topics that align with the symposium's theme: Advancements in Fluid Power Technology: Sustainability, Electrification, and Digitalization. The content encompasses a wide spectrum of subjects, including fluid power applications, control, and automation, energy efficiency, electrification, and environmental sustainability. The book can be a valuable reference for researchers and professionals interested in fluid power research and allied fields.

Review of the Rural Electrification Administration United States. Congress. House. Committee on Agriculture. Subcommittee on Conservation,

Credit, and Rural Development,1992 **Report of the Administrator - Rural Electrification Administration** United States. Rural Electrification Administration,1977 **AI Enabled IoT for Electrification and Connected Transportation** Naveenkumar Marati,Akash Kumar Bhoi,Victor Hugo C. De Albuquerque,Akhtar Kalam,2022-06-04 This book presents an overview of artificial intelligence AI in the automotive section especially in the modern era of green energy based electrification of vehicles and smart transportation systems The book also discusses different Internet of Things aspects involved in the automotive domain with AI The book presents autonomous driving systems advanced driver assistance systems ADAS autonomy AI involvement and machine learning techniques with challenges in electrification prognostics and diagnostics AI and IoT are two emerging technologies and their importance in other modern technology electrification on transportation connected vehicle segment are discussed thoroughly in this book with different topologies It also presents AI applications in the charging profile prediction state of charge state of health battery lifetime and battery temperature detection in dynamic conditions Different algorithms are also given in the book to discuss the nearest point charging station for electric vehicle users The book also discusses cybersecurity issues and challenges in the real time environment for AI implementation IoT in transportation and autonomous driving The other aspects of telematics smart sensors for the implementation of the IoT and AI are also discussed especially in guidance and control aspects The book will be useful for the researchers practitioners and industry people working in AI IoT in the electrification and transportation segment

Transportation Electrification Ahmed A. Mohamed,Ahmad Arshan Khan,Ahmed T. Elsayed,Mohamed A. Elshaer,2022-12-28 Transportation Electrification Dive deep into the latest breakthroughs in electrified modes of transport In Transportation Electrification an accomplished team of researchers and industry experts delivers a unique synthesis of detailed analyses of recent breakthroughs in several modes of electric transportation and a holistic overview of how those advances can or cannot be applied to other modes of transportation The editors include resources that examine electric aircraft rolling stock watercraft and vehicle transportation types and comparatively determine their stages of development distinctive and common barriers to advancement challenges gaps in technology and possible solutions to developmental problems This book offers readers a breadth of foundational knowledge combined with a deep understanding of the issues afflicting each mode of transportation It acts as a roadmap and policy framework for transportation companies to guide the electrification of transportation vessels Readers will benefit from an overview of key standards and regulations in the electrified transportation industry as well as A thorough introduction to the various modes of electric transportation including recent advances in each mode and the technological and policy challenges posed by them An exploration of different vehicle systems including recent advanced in hybrid and EV powertrain architectures and advanced energy management strategies Discussions of electrified aircraft including advanced technologies and architecture optimizations for cargo air vehicle passenger air vehicles and heavy lift vertical take off and landing craft In depth examinations of rolling

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Electrification and the Future of Decentralized Electricity Supply Fereidoon Sioshansi,2025-07-11 Electrification and the Future of Decentralized Electricity Supply addresses the role of electrification in the energy transition by examining what an electrified future entails how it can be achieved and the challenges that must be overcome to succeed Starting with coverage of the energy transition and the future of electricity this book examines how electrification coupled with renewable energy is the fastest and best path to a sustainable energy future Including global case studies this book covers everything from pricing innovations to the keys to affordable electrification ratemaking solutions electricity tariffs and balancing services Intended for researchers professionals academics and students this book is sure to be a welcomed reference for those working to advance the energy transition Discusses why we need to electrify various sectors including transport heating and beyond Presents how to electrify using easy to convert applications Considers the impact of electrification on the energy transition

Report of Rural Electrification Administration United States. Rural Electrification Administration,1939

The Digital Transformation Playbook David L. Rogers,2016-04-05 Rethink your business for the digital age Every business begun before the Internet now faces the same challenge How to transform to compete in a digital economy Globally recognized digital expert David L Rogers argues that digital transformation is not about updating your technology but about upgrading your strategic thinking Based on Rogers s decade of research and teaching at Columbia Business School and his consulting for businesses around the world The Digital Transformation Playbook shows how pre digital era companies can reinvigorate their game plans and capture the new opportunities of the digital world Rogers shows why traditional businesses need to rethink their underlying assumptions in five domains of strategy customers competition data innovation and value He reveals how to harness customer networks platforms big data rapid experimentation and disruptive business models and how to integrate these into your existing business and organization Rogers illustrates every strategy in this playbook with real world case studies from Google to GE from Airbnb to the New York Times With practical frameworks and nine step by step planning tools he distills the lessons of today s greatest digital innovators and makes them usable for businesses at any stage Many books offer advice for digital start ups but The Digital Transformation Playbook is the first complete treatment of how legacy businesses can transform to thrive in the digital age It is an indispensable guide for executives looking to take their firms to the next stage of profitable growth

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