Starting An Ev Charging Business

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WHEELER YOUNG

Sustainable Transport Fuels Business Briefing Springer Nature
Electric Vehicle Integration into Modern Power Networks provides coverage of the challenges and opportunities posed by the progressive integration of electric drive vehicles. Starting with a thorough overview of the current electric vehicle and battery state-of-the-art, this work describes dynamic software tools to assess the impacts resulting from the electric vehicles deployment on the steady state and dynamic operation of electricity grids, identifies strategies to mitigate them and the possibility to support simultaneously large-scale integration of renewable energy sources. New business models and control management architectures, as well as the communication infrastructure required to integrate electric vehicles as active demand are presented. Finally, regulatory issues of integrating electric vehicles into modern power systems are addressed. Inspired by two courses held under the EES-UETP umbrella in 2010 and 2011, this contributed volume consists of nine chapters written by leading researchers and professionals from the industry as well as academia.
The Business Year: Mexico 2023 Springer Science & Business Media
This Code of Practice provides a clear overview of EV charging equipment, as well as setting out the considerations needed prior to installation and the necessary physical and electrical installation requirements. It also details what needs to be considered when installing electric vehicle charging equipment in various different locations - such as domestic dwellings, on-street locations, and commercial and industrial premises. Key changes from the second edition include: Two completely new sections Vehicles as Energy Storage Integration with smart metering and control, automation and monitoring systems A new Annex A complete update to the new requirements in BS 7671:2018 Bringing the Code in line with revised regulations and good practice The risk assessments and checklists have also been reviewed and revised. This very well established Code of Practice, supported by all the major stakeholders in the industry, is essential reading for anyone involved in the rapid expansion of EV charging points, and those involved in maintenance, extension, modification and periodic verification of electrical installations that incorporate EV charging.
Developing Charging Infrastructure and Technologies for Electric Vehicles The Business Year
The Business Year: Ecuador 2023 is our eighth annual publication focusing on the Ecuadorian economy, and has a a particular emphasis on sustainability in the post-COVID-19 era. This 160-page publication features around 150 interviews with C-level executives from various sectors, including finance, the green economy, tourism, energy and renewables, mining and hydrocarbons, health and education, construction and real estate, industry, IT and telecoms, and transport and logistics. These interviews provide valuable insights into how businesses are integrating sustainability into their strategies, promoting responsible practices and contributing to Ecuador’s sustainable development agenda. By documenting Ecuador’s ongoing transformation toward a more sustainable economy, The Business Year aims to inform the international business community about the opportunities, challenges, and success stories emerging from this remarkable journey.
Introduction to Information Systems Springer Nature
Master's Thesis from the year 2019 in the subject Business economics - Business Management,

Corporate Governance, grade: 1,3, Niederrhein University of Applied Sciences Krefeld (School of Business and Economics), language: English, abstract: Today's world of mobility is characterised by a high degree of dynamism and change is becoming apparent. Currently, around 45 million passenger cars with conventional combustion engines, powered by diesel or petrol, are registered in Germany. The share of electric vehicles is still well below one per cent. Nevertheless, the voices for sustainable and environmentally friendly transport are becoming louder. One political measure in this respect is the implementation of driving bans in major German cities for some conventional combustion cars. Car electrification is a solution for converting cars with conventional combustion engines to electric drives. In the context of this thesis, car electrification is regarded as a transition solution towards a nationwide electrified transport network of new electric cars. A comprehensive concept of a business model approach from a start-up perspective has been developed based on the analysis of the environment, industry, and customer needs. Analysing the structure of the electrical conversion industry revealed that the subject of car electrification is hardly widespread and that current suppliers have only converted a smaller number of cars. Besides the small scale of implementation, the operational execution by existing suppliers can be considered weak in terms of competitiveness and sustainability. The analysis of the needs of potential customers of car electrification using qualitative and quantitative methods has led to incredibly valuable insights for the development of the business model approach. A high openness to purchase was expressed, considering some of the factors mentioned, such as a test drive with an electrified car before purchase and a durability guarantee of the conversion. The high relevance of initial acquisition costs compared to operating expenses in the purchase decision for passenger cars is another precious insight. The business model approach developed based on the findings obtained differs fundamentally from the strategies of today's providers. By incorporating the existing infrastructure of workshops and service points, proximity to the end customer and scalability of the business operation can be achieved. Partnering with universities and industry are two critical elements in the development of a sustainable, secure, and user-friendly technical solution.

Applied Operations Research and Financial Modelling in Energy Academic Press

The increase in air pollution and vehicular emissions has led to the development of the renewable energy-based generation and electrification of transportation. Further, the electrification shift faces an enormous challenge due to limited driving range, long charging time, and high initial cost of deployment. Firstly, there has been a discussion on renewable energy such as how wind power and solar power can be generated by wind turbines and photovoltaics, respectively, while these are intermittent in nature. The combination of these renewable energy resources with available power generation system will make electric vehicle (EV) charging sustainable and viable after the payback period. Recently, there has also been a significant discussion focused on various EV charging types and the level of power for charging to minimize the charging time. By focusing on both sustainable and renewable energy, as well as charging infrastructures and technologies, the future for EV can be explored. Developing Charging Infrastructure and Technologies for Electric Vehicles reviews and discusses the state of the art in electric vehicle charging technologies, their applications, economic, environmental, and social impact, and integration with renewable energy. This book captures the state of the art in electric vehicle charging infrastructure deployment, their applications, architectures, and relevant technologies. In addition, this book identifies potential research directions and technologies that facilitate insights on EV charging in various charging places such as smart home charging, parking EV charging, and charging stations. This book will be essential for power system architects, mechanics, electrical engineers, practitioners, developers, practitioners, researchers, academicians, and students interested in the problems and solutions to the state-of-the-art status of electric vehicles.

Proceedings of the 2023 3rd International Conference on Financial Management and Economic Transition (FMET 2023) Rowman & Littlefield

2011 Updated Reprint. Updated Annually. Turkey Transportation Policy and Regulations Handbook

Solar Powered Charging Infrastructure for Electric Vehicles National Academies Press

Handbook on Electric Vehicles Manufacturing (E- Car, Electric Bicycle, E- Scooter, E-Motorcycle, Electric Rickshaw, E- Bus, Electric Truck with Assembly Process, Machinery Equipments & Layout) An electric vehicle (EV) is one that is powered by an electric motor rather than an internal-combustion engine that burns a mixture of gasoline and gases to generate power. As a result, such a vehicle is being considered as a potential replacement for current-generation automobiles in order to solve issues such as:- a) Growing Pollution b) Global Warming, c) Natural Resource Depletion, and so on. Despite the fact that the concept of electric vehicles has been around for a long time, it has garnered a lot of attention in the last decade as a result of the rising carbon footprint and other environmental implications of gasoline-powered vehicles. The global electric vehicle market is expected to increase at a CAGR of 21.7 percent. Increased government investments in the development of electric vehicle charging stations and hydrogen fuelling stations, as well as buyer incentives, will provide chances for OEMs to increase their revenue stream and regional footprint. The EV market in Asia Pacific is expected to develop steadily due to increasing demand for low-cost, low-emission vehicles, whereas the market in North America and Europe is expected to rise quickly due to government initiatives and the growing high-performance passenger vehicle segment. India's flagship plan for boosting electric mobility is FAME, or Faster Adoption and Manufacturing of (Hybrid and) Electric Vehicles FAME Scheme has been authorized by the government, with 86 percent of overall budgetary support has been set aside for the Demand Incentive, which aims to increase demand for EVs throughout the country. This phase will support e-buses, e-3 wheelers, e-4 wheeler passenger cars and e-2 wheelers in order to build demand. The book covers a wide range of information related to the manufacture of electric vehicles. It includes E- Car, Electric Bicycle, E- Scooter, E-Motorcycle, Electric Rickshaw, E- Bus, Electric Truck with Assembly Process, contact information for machinery suppliers, Directory Section & Factory Layout. A detailed guide on the manufacturing and entrepreneurship of electric vehicles. This book serves as a one-stop shop for everything you need to know about the Electric Vehicle Manufacturing industry, which is rife with opportunities for startups, manufacturers, merchants, and entrepreneurs. This is the only book on the production of commercial electric vehicles. It's a veritable feast of how-to information, from concept through equipment acquisition.

Turkey Transportation Policy and Regulations Handbook Volume 1 Strategic Information and Regulations Springer Nature

This 256-page publication includes a comprehensive examination of the main trends in Latin America’s second-largest economy during an unprecedented period of uncertainty and change. To understand how this economy performed during this period and how it might recover, we conducted a year-long investigation that includes interviews with top executives and officials from the public and private sectors.

Recent Advances in Hybrid and Electric Automotive Technologies John Wiley & Sons

The Paris Agreement on Climate Change adopted on December 12, 2015 is a voluntary effort to reduce greenhouse gas emissions. In order to reach the goals of this agreement, there is a need to generate electricity without greenhouse gas emissions and to electrify transportation. An infrastructure of SPCSs can help accomplish both of these transitions. Globally, expenditures associated with the generation, transmission, and use of electricity are more than one trillion dollars per year. Annual transportation expenditures are also more than one trillion dollars per year. Almost everyone will be impacted by these changes in transportation, solar power generation, and smart grid developments. The benefits of reducing greenhouse gas emissions will differ with location, but all will be impacted. This book is about the benefits associated with adding solar panels to parking lots to generate electricity, reduce greenhouse gas emissions, and provide shade and shelter from rain and snow. The electricity can flow into the power grid or be used to charge electric vehicles (EVs). Solar powered charging stations (SPCSs) are already in many parking lots in many countries of the world. The prices of solar panels have decreased recently, and about 30% of the new U.S. electrical generating capacity in 2015 was from solar energy. More than one million EVs are in service in 2016, and there are significant benefits associated with a convenient charging infrastructure of SPCSs to support transportation with electric vehicles. Solar Powered Charging Infrastructure for Electric Vehicles: A Sustainable Development aims to share information on pathways from our present situation to a world with a more sustainable transportation system with EVs, SPCSs, a modernized smart power grid with energy storage, reduced greenhouse gas emissions, and better urban air quality. Covering 200 million parking spaces with solar panels can generate about 1/4 of the electricity that was generated in 2014 in the United States. Millions of EVs with 20 to 50 kWh of battery storage can help with the transition to wind and solar power generation through owners responding to time-of-use prices. Written for all audiences, high school and college teachers and students, those in industry and government, and those involved in community issues will benefit by learning more about the topics addressed in the book. Those working with electrical power and transportation, who will be in the middle of the transition, will want to learn about all of the challenges and developments that are addressed here.

Emerging Business Opportunities World Scientific

The electrification of shared fleets offers numerous benefits, including the reduction of local emissions of pollutants, which leads to ecological improvements such as the improvement of air quality. Electric Vehicles in Shared Fleets considers a holistic concept for a socio-technical system with a focus on three core areas: integrated mobility solutions, business models for economic viability, and information systems that support decision-making for the successful implementation and operation of electric vehicles in shared fleets.In this book, we examine different aspects within these areas including multimodal mobility, grid integration of electric vehicles, shared autonomous electric vehicle services, relocation strategies in shared fleets, and the challenge of battery life of electric vehicles. Insights into the future of transport are provided, which is predicted to be shared, autonomous, and electric. This will require the expansion of the charging infrastructure to provide adequate premises for the electrification of transportation and to create market demand.

Code of Practice for Electric Vehicle Charging Equipment Installation John Wiley & Sons

Can we align global production and consumption systems with sustainability? Can business growth actually lead to a healthier planet? Can companies innovate through the circular economy to create competitive advantage and genuine impact? Waste to Wealth proved that the emerging circular economy advantage exists – now Lacy, Long and Spindler show you how to realize it at speed and scale in The Circular Economy Handbook. We stand at a crossroads, with rising geopolitical and geo-economic tensions, massive technological change and a host of social and environmental challenges. We are pushing planetary boundaries to their limits, with climate change and threats to biodiversity and oceans as just a few examples. Significant impacts are already being felt, and both people and planet face potentially catastrophic and irreversible consequences if we don’t urgently change our global model and systems. Our current linear “take, make, waste” models of production and consumption will not be sustainable in a world of some 9 billion people by 2050, especially with ever-expanding rates of consumption. Thriving within these dynamics demands more than incremental adjustments to business-as-usual. The circular economy offers a powerful means to decouple growth from use of scarce and harmful resources, enabling greater production and consumption with fewer negative environmental impacts—at the same time, making companies more innovative and competitive. In fact, this book shows that $4.5 trillion in economic value is at stake. Delivering on the promise of a circular economy demands impact and scale, extending through value chains and, ultimately, disrupting the entire economic system. In The Circular Economy Handbook, the authors illuminate the path from insight to action, from linear to circular. With case studies, advice and practical guidance, they show leaders how to pivot towards a holistic circular organization, embedding circularity internally and delivering broad-based system change. With unique insights across business models, technologies, and industries – featuring stories and real-world examples from circular pioneers – this book is the essential guide to help companies become leaders in the movement to secure the circular economy advantage.

Black House/ White House CRC Press

Sustainable Transport Fuels Business Briefing explains, for a global business audience, the latest developments in the world of sustainable transport. Not the vehicles or modes of transport themselves, but their means of propulsion.New technologies and players are coming and going with bewildering speed. Some observers are putting their money on electric vehicles, others on hybrids; some see electric vehicles as a mere stepping stone to hydrogen-powered fuel cell vehicles, already being seen on city streets. The mere mention of biofuels often provokes fierce arguments about their sustainability, yet they, too, are here to stay and will be filling more and more fuel tanks.By the time you finish this book, you will understand not only the pros and cons of all these technologies, the programmes around the world furthering their development, and the players large and small, but also the catalysts for change, and the successful partnerships and innovative business models being employed.You’ll be able to make informed decisions about investments, whether you’re considering a new fleet, haulage or mobility of any kind, or whether to install an electric vehicle charging point in your property.

Electric Vehicle Charging Infrastructure, Fremont Bayside Business Park World Bank Publications

This book describes the fundamentals and applications of wireless power transfer (WPT) in electric vehicles (EVs). Wireless power transfer (WPT) is a technology that allows devices to be powered without having to be connected to the electrical grid by a cable. Electric vehicles can greatly benefit from WPT, as it does away with the need for users to manually recharge the vehicles’ batteries, leading to safer charging operations. Some wireless chargers are available already, and research is underway to develop even more efficient and practical chargers for EVs. This book brings readers up to date on the state-of-the-art worldwide. In particular, it provides: • The

fundamental principles of WPT for the wireless charging of electric vehicles (car, bicycles and drones), including compensation topologies, bi-directionality and coil topologies. • Information on international standards for EV wireless charging. • Design procedures for EV wireless chargers, including software files to help readers test their own designs. • Guidelines on the components and materials for EV wireless chargers. • Review and analysis of the main control algorithms applied to EV wireless chargers. • Review and analysis of commercial EV wireless charger products coming to the market and the main research projects on this topic being carried out worldwide. The book provides essential practical guidance on how to design wireless chargers for electric vehicles, and supplies MATLAB files that demonstrate the complexities of WPT technology, and which can help readers design their own chargers.

Netzintegration der Elektromobilität 2018 Xlibris Corporation

Plug-in electric vehicles are coming. Major automakers plan to commercialize their first models soon, while Israel and Denmark have ambitious plans to electrify large portions of their vehicle fleets. No technology has greater potential to end the United States' crippling dependence on oil, which leaves the nation vulnerable to price shocks, supply disruptions, environmental degradation, and national security threats including terrorism. What does the future hold for this critical technology, and what should the U.S. government do to promote it? Hybrid vehicles now number more than one million on America's roads, and they are in high demand from consumers. The next major technological step is the plug-in electric vehicle. It combines an internal combustion engine and electric motor, just as hybrids do. But unlike their precursors, PEVs can be recharged from standard electric outlets, meaning the vehicles would no longer be dependent on oil. Widespread growth in the use of PEVs would dramatically reduce oil dependence, cut driving costs and reduce pollution from vehicles. National security would be enhanced, as reduced oil dependence decreases the leverage and resources of petroleum exporters. Brookings fellow David Sandalow heads up an authoritative team of experts including former government officials, private-sector analysts, academic experts, and nongovernmental advocates. Together they explain the current landscape for PEVs: the technology, the economics, and the implications for national security and the environment. They examine how the national interest could be served by federal promotion and investment in PEVs. For example, can tax or procurement policy advance the cause of PEVs? Should the public sector contribute to greater research and development? Should the government insist on PEVs to replenish its huge fleet of official vehicles? Plug-in electric vehicles are coming. But how soon, in what numbers, and to what effect? Federal policies in the years ahead will go a long way toward answering those questions. David Sandalow and his colleagues examine what could be done in that regard, as well as what should be done.

Electric Vehicles In Shared Fleets: Mobility Management, Business Models, And Decision Support Systems The Business Year

This book provides a broad overview of the financial, economic and legal implications of energy industry regulations in various countries. In light of significant changes around the globe, it analyses various institutions that are involved in regulative measures, and based on various country studies, it offers insights into how energy sector regulations differ across countries with different market structures and institutions. Covering major topics such as laws and regulations geared to market competition and sustainability and the impact of noncompliance to regulations, from the perspectives of financial markets, and financial risks, the book is divided into four parts: Part I Regulations: price and trade controls; Part II. Non-price & trade control regulations; Part III: Compliance with regulations; and Part IV: Market issues and regulation. It will appeal to scholar in economics, finance and related fields as well as to policymakers and practitioners in the energy industry. This is the seventh volume in a series on energy organized by the Centre for Energy and Value Issues (CEVI). The previous volumes in the series were: Financial Aspects in Energy (2011), Energy Economics and Financial Markets (2012), Perspectives on Energy Risk (2014), Energy Technology and Valuation Issues (2015), Energy and Finance (2016) and Energy Economy, Finance and Geostrategy (2018).

The Global Rise of the Modern Plug-In Electric Vehicle Frontiers Media SA

This book presents the select proceedings of International Conference on Hybrid and Electric Automotive Technologies 2021 (HEAT 2021). It cover recent innovations in electric and hybrid-electric vehicles and autonomous vehicles. Various topics covered in this volume are batteries, battery cooling methodologies, use of nano-coolants, electrified powertrain systems and components, hybridisation infrastructure, energy storage, and many other topics of importance to the industry. The book will be useful for researchers and professionals working in the areas of automobile and vehicle engineering.

The Circular Economy Handbook Routledge

This book is about the hundreds of emails that was received from The White House and President Barack Obama in the last of his first four year term in Office. As the First Black African American President as the occupant in the White house. President Obama has been ridicule by his critics beyond any racial insensitivity of any President in the history of that Office. The good thing about this book is that there are hundreds of web sites that the reader can click on to get in-depth details about the articles in question. The President has made it clear that his Administration would have an open door policy and transparent for the people.. We stayed Connected to The White House.

Grid Integration of Electric Vehicles in Open Electricity Markets Lulu.com

As the country that inspires the world with ‘gross national happiness’ development philosophy, Bhutan is striving to pursue its economic growth while committing to its core values of inclusive and green development. Even with robust economic growth rates, Bhutan’s dependence on imports and hydropower revenues drives the country to search for self-reliant option to fuel the economy while further decarbonizing the economy. Electric vehicle is being explored as one of the key policies to introduce green mobility, reduce fossil fuel imports and put the country firmly on a green growth path. Globally, electric vehicles market and technology are still in the nascent stage but are developing rapidly. The automotive industry has adopted electrification as a pillar of future drive train technology. EV uptake is expected to increase significantly with ongoing improvements in technology and resulting cost decreases in the global market. This report aims to help Bhutan think through various technical and policy issues of introducing electric vehicles in its own context. It analyses a variety of factors that will impact adoption of electric vehicles from technical, market and financial feasibility to consumer awareness and stakeholders’ capacity. It also addresses several policy questions which are at the heart of public debate such as affordability of the government to undertake the program, economic costs and benefits, distributional impact, fiscal, and macroeconomic implications. Drawing from vast international experiences, the report examines in great technical details how global cutting-edge technology like electric vehicles could be pursued in the context of developing economies with different socio-economic characteristics and constraints compared to advanced economies. It will help readers better grasp the technical, financial, economic and social challenges as well as opportunities in initiating electric vehicles program and provide practical recommendations that will be useful for policy makers in designing their own EV initiative.

Electric Vehicles for Smart Cities NIIR PROJECT CONSULTANCY SERVICES

Electric Vehicles for Smart Cities: Trends, Challenges, and Opportunities uniquely examines different approaches to electric vehicle deployment in the context of smart cities. It provides a holistic picture of electromobility within urban areas, offering an integrated approach to city transportation systems by considering the energy systems, latest vehicle technologies, and transport infrastructure. Electric Vehicles for Smart Cities addresses the interaction between grid infrastructure, vehicles, costs and benefits, and operational reliability within an integrated framework. The book examines the role electric vehicles play in the social and political aspects of climate change mitigation, as well as a renewable energy-based economy. It explains how electric vehicles and their system requirements work, including recharging techniques and infrastructures, and discusses alternative market deployment approaches. Includes case studies from cities around the world, including Amsterdam, London, Oslo, Barcelona, Los Angeles, New York, Silicon Valley, Los Angeles, Beijing, Shanghai, Tianjin, Tokyo, and Goto Islands Traces the developments, innovations, advantages, and disadvantages in the electric car industry Provides learning aids such as discussion questions and text boxes

I BYTES Retail & Consumer Goods Industry Springer

Die inhaltlichen Schwerpunkte des Tagungsbands zur ATZlive-Veranstaltung Netzintegration der Elektromobilität 2018 sind u.a. folgendeFragen: Wann können Stromnetze volatile Wind- und Solarenergie speichern? Wie sind die Stromübertragungsnetze ausgelegt? Können Spitzenlastsituationen abgedeckt werden? Die Tagung ist eine unverzichtbare Plattform für den Wissens- und Gedankenaustausch von Forschern und Entwicklern aller Unternehmen und Institutionen, die Antworten auf diese Fragen suchen.

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