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Vestas | Life cycle assessment
Life Cycle Assessment of Electricity Production from an onshore V100-2.6MW Wind Plant October 2013 Authors: Peter Garrett & Klaus Rønde Vestas Wind Systems A/S Vestas Wind Systems A/S Hedeager 44 Aarhus N, 8200 Denmark Phone: (+45) 97 30 00 00 Fax: (+45) 97 30 00 01 Email: sustainability@vestas.com Revision Version Date Material breakdown correction (Sec 4) 1.1 31/10/2013 First issue 1.0 25 ...

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Executive summary The present Life cycle assessment (LCA) is the final reporting for the electricity produced from a 100MW onshore wind power plant composed of Vestas V112-3.45 MW turbines (Mark 3a). Vestas Wind Systems A/S has prepared the report and the underlying LCA model.

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Executive summary The present Life cycle assessment (LCA) is the final reporting for the electricity produced from a 100MW onshore wind power plant composed of Vestas V136-3.45 MW turbines (Mark 3a). Vestas Wind Systems A/S has prepared the report and the underlying LCA model.

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Life cycle assessment of electricity produced ... - Vestas
Vestas Wind Systems A/S · Alsvej 21 · 8900 Randers · Denmark · www.vestas.com This report makes up the final reporting on the life cycle assessment (LCA) of offshore and onshore sited wind power plants based on the Vestas V90-3.0 MW turbine. The LCA and the reporting have

??^ - Vestas
Vestas Wind Systems (Vestas, 2005 and 2006) conducted several LCAs of onshore and offshore wind farms based on both 2MW and 3MW turbines. The purpose of the LCAs was to establish a basis for assessment of environmental improvement possibilities for wind farms through their life cycles.

LCA in wind energy
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The installation phase of a wind turbines life cycle is comprised of using heavy duty machinery to lift, place, and connect wind turbines. One of the machines used is a diesel powered crane that lifts all of the major separated components in place while workers place them together and add adhesives.

Wind Turbines — Design Life-Cycle
Read PDF Life Cycle Vestas Vestas V90-3.0 MW turbines. Technical report; March 2005. Life cycle analysis of 4.5 MW and 250 W wind turbines ... Vestas [10] stated in that one Vestas V90-3 MW onshore wind turbine generates 7,890 MWh/year, corresponding to a capacity factor (the amount of energy a facility generates in one year divided by the total amount it could generate if it ran at full ...

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Life at Vestas is many things – exciting, rewarding, fun and challenging. Because we are part of a young industry there is a can-do, dynamic spirit, which inspires our people to keep pushing forward the boundaries commercially as well as technologically.

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Life Cycle Assessment for Wind Turbine 1 1. Goal and Scope 1.1 Goal of the study Assess the life cycle of wind turbine and compare its environmental impacts with the impacts of other energy sources (oil, coal and hydro). Background of the Problem Due to more environmental concerns and more environmental restrictions, renewable energies

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The journey towards sustainability requires that companies must find innovative ways to make profits and at the same time extend the traditional boundaries of business to include the environmental and social dimensions, a process known as Life Cycle Thinking. This Guide contains many examples illustrating how business organizations are putting Life Cycle Thinking into practice all over the world.

Life-cycle assessment of new energy solutions plays an important role in discussions about global warming mitigation options and the evaluation of concrete energy production and conversion installations. This book starts by describing the methodology of life-cycle analysis and life-cycle assessment of new energy solutions. It then goes on to cover, in detail, a range of applications to individual energy installations, national supply systems, and to the global energy system in a climate impact context. Coverage is not limited to issues related to commercial uses by consultants according to ISO norms. It also emphasizes life-cycle studies as an open-ended scientific discipline embracing economic issues of cost, employment, equity, foreign trade balances, ecological sustainability, and a range of geo-political and social issues. A wealth of applications are described and a discussion on the results obtained in each study is included. Example areas are fossil and nuclear power plants, renewable energy systems, and systems based on hydrogen or batteries as energy carriers. The analysis is continued to the end-users of energy, where energy use in transportation, industry and home are scrutinized for their life-cycle impacts. Biofuel production and the combustion of firewood in home fireplaces and stoves are amongst the issues discussed. A central theme of the book is global warming. The impacts of greenhouse gas emissions are meticulously mapped at a depth far beyond that of the IPCC reports. A novel and surprising finding is that more lives will be saved than lost as a direct consequence of a warmer climate. After a 2oC increase in temperature, the reduction in death rates in areas with cold winters would outweigh the increase in the death rates in hot climates. However, this is only one of several impacts from greenhouse gases, and the remaining ones are still overwhelmingly negative. The fact that some population groups may benefit from higher temperatures (notably the ones most responsible for greenhouse gas emissions) whilst others (who did not contribute much to the problem) suffer is one of the main points of the book. The book is suitable as a university textbook and as a reference source for engineers, managers and public bodies responsible for planning and licensing.

First Published in 2009. Routledge is an imprint of Taylor & Francis, an informa company.

The addition of nanoparticles to polymer composites has led to a new generation of composite materials with enhanced and novel properties. Advances in polymer nanocomposites reviews the main types of polymer nanocomposites and their applications. Part one reviews types of polymer nanocomposites according to fillers. Processing of carbon nanotube-based nanocomposites, layered double hydroxides (LDHs) and cellulose nanoparticles as functional fillers and reinforcement are discussed, alongside calcium carbonate and metal-polymer nanocomposites. Part two focuses on types of polymer nanocomposites according to matrix polymer, with polyolefin-based, (PVC)-based, nylon-based, (PET)-based and thermoplastic polyurethane (TPU)-based polymer nanocomposites discussed. Soft, gel and biodegradable polymer nanocomposites are also considered. Part three goes on to investigate key applications, including fuel cells, aerospace applications, optical applications, coatings and flame-retardant polymer nanocomposites. With its distinguished editor and international team of expert contributors, Advances in polymer nanocomposites is an essential guide for professionals and academics involved in all aspects of the design, development and application of polymer nanocomposites. Reviews the main types of polymer nanocomposites and their applications Discusses processing of carbon nanotube-based nanocomposites, layered double hydroxides (LDHs) and cellulose nanoparticles as functional fillers and reinforcement Discusses polyolefin-based, (PVC)-based, nylon-based, (PET)-based and thermoplastic polyurethane (TPU)-based polymer nanocomposites

This book provides in-depth coverage of the latest research and development activities concerning innovative wind energy technologies intended to replace fossil fuels on an economical basis. A characteristic feature of the various conversion concepts discussed is the use of tethered flying devices to substantially reduce the material consumption per installed unit and to access wind energy at higher altitudes, where the wind is more consistent. The introductory chapter describes the emergence and economic dimension of airborne wind energy. Focusing on “Fundamentals, Modeling & Simulation”, Part I includes six contributions that describe quasi-steady as well as dynamic models and simulations of airborne wind energy systems or individual components. Shifting the spotlight to “Control, Optimization & Flight State Measurement”, Part II combines one chapter on measurement techniques with five chapters on control of kite and ground stations, and two chapters on optimization. Part III on “Concept Design & Analysis” includes three chapters that present and analyze novel harvesting concepts as well as two chapters on system component design. Part IV, which centers on “Implemented Concepts”, presents five chapters on established system concepts and one chapter about a subsystem for automatic launching and landing of kites. In closing, Part V focuses with four chapters on “Technology Deployment” related to market and financing strategies, as well as on regulation and the environment. The book builds on the success of the first volume “Airborne Wind Energy” (Springer, 2013), and offers a self-contained reference guide for researchers, scientists, professionals and students. The respective chapters were contributed by a broad variety of authors: academics, practicing engineers and inventors, all of whom are experts in their respective fields.

Life cycle assessment enables the identification of a broad range of potential environmental impacts occurring across the entire life of a product, from its design through to its eventual disposal or reuse. The need for life cycle assessment to inform environmental design within the built environment is critical, due to the complex range of materials and processes required to construct and manage our buildings and infrastructure systems. After outlining the framework for life cycle assessment, this book uses a range of case studies to demonstrate the innovative input-output-based hybrid approach for compiling a life cycle inventory. This approach enables a comprehensive analysis of a broad range of resource requirements and environmental outputs so that the potential environmental impacts of a building or infrastructure system can be ascertained. These case studies cover a range of elements that are part of the built environment, including a residential building, a commercial office building and a wind turbine, as well as individual building components such as a residential-scale photovoltaic system. Comprehensively introducing and demonstrating the uses and benefits of life cycle assessment for built environment projects, this book will show you how to assess the environmental performance of your clients’ projects, to compare design options across their entire life and to identify opportunities for improving environmental performance.

This book presents a collection of the latest studies on and applications for the sustainable development of urban energy systems. Based on the 20th International Scientific Conference on Energy Management of Municipal Facilities and Sustainable Energy Technologies, held in Voronezh and Samara, Russia from 10 to 13 December 2018, it addresses a range of aspects including energy modelling, materials and applications in buildings; heating, ventilation and air conditioning systems; renewable energy technologies (photovoltaic, biomass, and wind energy); electrical energy storage; energy management; and life cycle assessment in urban systems and transportation. The book is intended for a broad readership: from policymakers tasked with evaluating and promoting key enabling technologies, efficiency policies and sustainable energy practices, to researchers and engineers involved in the design and analysis of complex systems.

Wind Energy Engineering: A Handbook for Onshore and Offshore Wind Turbines is the most advanced, up-to-date and research-focused text on all aspects of wind energy engineering. Wind energy is pivotal in global electricity generation and for achieving future essential energy demands and targets. In this fast moving field this must-have edition starts with an in-depth look at the present state of wind integration and distribution worldwide, and continues with a high-level assessment of the advances in turbine technology and how the investment, planning, and economic infrastructure can support those innovations. Each chapter includes a research overview with a detailed analysis and new case studies looking at how recent research developments can be applied. Written by some of the most forward-thinking professionals in the field and giving a complete examination of one of the most promising and efficient sources of renewable energy, this book is an invaluable reference into this cross-disciplinary field for engineers. Contains analysis of the latest high-level research and explores real world application potential in relation to the developments Uses system international (SI) units and imperial units throughout to appeal to global engineers Offers new case studies from a world expert in the field Covers the latest research developments in this fast moving, vital subject

The search for alternative sources of energy is an attempt to solve two of the main problems facing the modern world. Today's resources are mainly based on fossil flammable substances such as coal, oil, and natural gas. The first problem is related to the expected and observed depletion of deposits, not only those available but also less accessible. Another is related to global warming from emissions of greenhouse gases (mainly carbon dioxide) as well as emissions of other pollutants in the atmosphere. Mitigating the harmful effects of fossil fuel use is an obvious challenge for mankind. This Special Issue includes articles on the search for new raw materials and new technologies for obtaining energy, such as those existing in nature, methane hydrates, biomass, etc., new more efficient technologies for generating electricity, as well as analyses of the possibilities and conditions of use of these resources for practical applications.

The nexus between water and energy raises a set of public policy questions that go far beyond water and energy. Economic vitality and management of scarce and precious resources are at stake. This book contributes to the body of knowledge and understanding regarding water, energy, and the links between the two in the American West and beyond. The research and analyses presented by the authors shed new light on the choices that must be made in order to avoid unnecessary harm in the development and management of water and energy systems to meet public needs in an ever changing environmental and economic climate. Indeed, the book shows, thoughtfully designed new technologies and approaches can help restore damaged environments and provide a range of benefits. The focus is the American West, but many of the lessons are global in their applicability. After a broad, stage-setting introductory section, the volume looks first at the use of water for energy production and then follows with chapters on the role of energy in water projects. The final section looks at the way forward, providing cases and recommendations for better, more efficient linkages in the water–energy nexus. Students and researchers in economics, public policy, environmental studies and law along with planners and policymakers will find this accessible and very current volume invaluable.