

Where To Download International Energy Management Standards Iso 50001 Free Download Pdf

ISO 50001 Inside Energy **IMPACT OF ISO 50001 STANDARD** *ISO 50001 Energy Management Systems* Effective Implementation of an ISO 50001 Energy Management System (EnMS) **Effective Implementation of an ISO 50001 Energy Management System (EnMS)** ISO 9001, ISO 14001, and New Management Standards **ISO 50001 - Fundamentals of Energy Management System (EnMS)** Inside Energy *ISO 50001 Energy Management Standard* **Energy Management Systems - Requirements with Guidance for Use (ISO 50001:2018)** *ISO 50001 A Complete Guide - 2020 Edition* *Sustainable Operations Management* *Energy Management in Plastics Processing* *Cost Management in Plastics Processing* *Ethics in the Global South* **Resource Efficiency of Processing Plants** **Bollettino del Centro di studi archeologici ed artistici del Piemonte** **Proceedings of the XV International symposium Symorg 2016** **Impact of ISO 50001 Standard** Global Impact Estimation of ISO 50001 Energy Management System for Industrial and Service Sectors **The ISO 50001 Impact Estimator Tool (IET 50001 V1.1.4) - User Guide and Introduction to the ISO 50001 Impacts Methodology** Implementing ISO 50001 *Proceedings of the XVII International symposium Symorg 2020* ISO 50001 Regulations in the Energy Industry *Energy Management and Efficiency for the Process Industries* *Advances in Business, Management and Entrepreneurship* **Energy Efficient Manufacturing Iso 50001** *ISO 50001:2018 Energy Management System Requirements and Implementation* **Industrial Engineering and Operations Management** **Green Chemistry** Industrial Engineering and Operations Management Sustainable Aviation *Proceedings of the XIII International Symposium SymOrg 2012: Innovative Management and Business Performance* ISO 50001 for Commercial Buildings *Solving Urban Infrastructure Problems Using Smart City Technologies* Energy Management and Energy Efficiency in Industry Getting Started with Energy Management and Iso 50001:2011 Certification

This book provides readers with a basic understanding of the concepts and methodologies of sustainable aviation. The book is divided into three sections : basic principles the airport side, and the aircraft side. In-depth chapters discuss the key elements of sustainable aviation and provide complete coverage of essential topics including airport, energy, and noise management along with novel technologies, standards and a review of the current literature on green airports, sustainable aircraft design, biodiversity management,

and alternative fuels. Engineers, researchers and students will find the fundamental approach useful and will benefit from the many engineering examples and solutions provided. L'evolució de la gestió de la qualitat total ha tingut una gran difusió en les últimes dècades, sobretot per a l'adopció de la norma de sistemes de gestió. Tenint en compte que les qüestions de l'energia està augmentant en major mesura en els últims anys, la ISO desenvolupa ISO 50001 Sistema de Gestió de l'Energia (SGEn). Norma ISO 50001 va ser publicada el juliol de 2011 i ha crescut de manera significativa a tot el món des de llavors. S'espera que aquesta norma per donar un gran impacte en la gestió de l'energia i s'estima que la norma podria influir fins a un 60% del consum d'energia del món. ISO 50001 estableix un marc per als sistemes de gestió de l'energia, no només per a les plantes industrials, sinó també per, instal·lacions comercials, institucionals governamentals; i organitzacions senceres. Aquest llibre resumeix els resultats d'un estudi realitzat per la Universitat de Girona (UdG) i la Universitat del País Basc (UPV / EHU) té com a objectiu analitzar l'impacte de la norma ISO 50001 a Espanya. La evolución de la gestión de la calidad total ha tenido una gran difusión en las últimas décadas, sobre todo para la adopción de la norma de sistemas de gestión. Teniendo en cuenta que las cuestiones de la energía está aumentando en mayor medida en los últimos años, la ISO desarrolla ISO 50001 Sistema de Gestión de la Energía (SGEn). Norma ISO 50001 fue publicada en julio de 2011 y ha crecido de manera significativa en todo el mundo desde entonces. Se espera que esta norma para dar un gran impacto en la gestión de la energía y se estima que la norma podría influir hasta en un 60% del consumo de energía del mundo. ISO 50001 establece un marco para los sistemas de gestión de la energía, no sólo para las plantas industriales, sino también para, instalaciones comerciales, institucionales gubernamentales; y organizaciones enteras. Este libro resume los resultados de un estudio realizado por la Universidad de Girona (UdG) y la Universidad del País Vasco (UPV / EHU) tiene como objetivo analizar el impacto de la norma ISO 50001 en España. The evolution of total quality management has had a great dissemination in the last decades, especially for the adoption of management systems standard. Given that the issues of energy is increasing to a greater extent in the recent years, ISO develops ISO 50001 Energy Management System (EnMS). ISO 50001 standard was published on July 2011 and it has grown significantly worldwide ever since. This standard is expected to give a big impact in energy management and it is estimated that the standard could influence up to 60 % of the world's energy use. ISO 50001 established a framework for energy management systems, not only for industrial plants but also for commercial, institutional, governmental facilities; and entire organizations. This book summarizes the results of a study conducted by the University of Girona (UdG) and University of the Basque Country (UPV/EHU) aimed at analyzing the impact of ISO 50001 standard in Spain. This book is presented to demonstrate how energy efficiency can be achieved in existing systems or in the design of a new system, as well as a guide for energy savings opportunities. Accordingly, the content of the book has been enriched with many examples applied in the industry. Thus, it is aimed to provide energy savings by successfully managing the energy in the readers' own businesses. The authors primarily present the necessary measurement techniques and measurement tools to be used for energy saving, as well as how to evaluate the methods that can be used for improvements in systems. The book also provides

information on how to calculate the investments to be made for these necessary improvements and the payback periods. The book covers topics such as:

- Reducing unit production costs by ensuring the reduction of energy costs,
- Efficient and quality energy use,
- Meeting market needs while maintaining competitive conditions,
- Ensuring the protection of the environment by reducing CO₂ and CO emissions with energy saving and energy efficiency,
- Ensuring the correct usage of systems by carrying out energy audits.

In summary, this book explains how to effectively design energy systems and manage energy to increase energy savings. In addition, the study has been strengthened by giving some case studies and their results in the fields of intensive energy consumption in industry. This book is an ideal resource for practitioners, engineers, researchers, academics, employees and investors in the fields of energy, energy management, energy efficiency and energy saving. *Energy Management in Plastics Processing: Strategies, Targets, Techniques, and Tools, Third Edition*, addresses energy benchmarking and site surveys, how to understand energy supplies and bills, and how to measure and manage energy usage and carbon footprinting. The book's approach highlights the need to reduce the kWh/kg of materials processed and the resulting permanent reductions in consumption and costs. Every topic is covered in a 2-page spread, providing the reader with clear actions and key tips for success. This revised third edition covers new developments in energy management, power supply considerations, automation, assembly operations, water footprinting, and transport considerations, and more. Users will find a practical workbook that not only shows how to reduce energy consumption in all the major plastics shaping processes (moulding, extrusion, forming), but also provides tactics that will benefit other locations in plants (e.g. in factory services and nonmanufacturing areas). Enables plastics processors in their desire to institute an effective energy management system, both in processing and elsewhere in the plant Provides a holistic perspective, shining a light on areas where energy management methods may have not been previously considered Acts as a roadmap to help companies move towards improved sustainability and cost savings Over the last several years, manufacturers have expressed increasing interest in reducing their energy consumption and have begun to search for opportunities to reduce their energy usage. In this book, the authors explore a variety of opportunities to reduce the energy footprint of manufacturing. These opportunities cover the entire spatial scale of the manufacturing enterprise: from unit process-oriented approaches to enterprise-level strategies. Each chapter examines some aspect of this spatial scale, and discusses and describes the opportunities that exist at that level. Case studies demonstrate how the opportunity may be acted on with practical guidance on how to respond to these opportunities. This book is a comprehensive reference on ISO management system standards and their implementation. The impacts that ISO 9001 and ISO 14001 have had on business performance are analyzed in depth, and up-to-date perspectives are offered on the integration of these and other management standards (e.g. SA8000, ISO/TS 16949). Detailed information is provided on the signaling value of different management standards and on the new ISO standards for management systems, such as ISO 50001 and ISO 45001, relating to energy management and occupational health and safety. The role of audits in ensuring compliance with the standards and achievement of objectives is also carefully considered. The volume examines avenues for further research and emerging challenges. In offering an

integrated, holistic perspective on ISO management system standards, this book will have wide appeal for academics, public decision-makers, and practitioners in the field of quality and environmental management. This volume includes works by authors from the global South and contributions about ethical issues in the global South, including the responses to famine in East Africa, India and Indonesia, and the applicability of international guidelines and ethical frameworks in South Africa. This monograph provides foundations, methods, guidelines and examples for monitoring and improving resource efficiency during the operation of processing plants and for improving their design. The measures taken to improve their energy and resource efficiency are strongly influenced by regulations and standards which are covered in Part I of this book. Without changing the actual processing equipment, the way how the processes are operated can have a strong influence on the resource efficiency of the plants and this potential can be exploited with much smaller investments than needed for the introduction of new process technologies. This aspect is the focus of Part II. In Part III we discuss physical changes of the process technology such as heat integration, synthesis and realization of optimal processes, and industrial symbiosis. The last part deals with the people that are needed to make these changes possible and discusses the path towards a resource efficiency culture. Written with industrial solutions in mind, this text will benefit practitioners as well as the academic community. ISO 50001-Energy management systems - Requirements with guidance for use, is an internationally developed standard that provides organizations with a flexible framework for implementing an energy management system (EnMS) with the goal of continual energy performance improvement. The ISO 50001 standard was first published in 2011 and has since seen growth in the number of certificates issued around the world, primarily in the industrial (agriculture, manufacturing, and mining) and service (commercial) sectors. Policy makers in many regions and countries are looking to or are already using ISO 50001 as a basis for energy efficiency, carbon reduction, and other energy performance improvement schemes. The Impact Estimator Tool 50001 (IET 50001 Tool) is a computational model developed to assist researchers and policy makers determine the potential impact of ISO 50001 implementation in the industrial and service (commercial) sectors for a given region or country. The IET 50001 Tool is based upon a methodology initially developed by the Lawrence Berkeley National Laboratory that has been improved upon and vetted by a group of international researchers. By using a commonly accepted and transparent methodology, users of the IET 50001 Tool can easily and clearly communicate the potential impact of ISO 50001 for a region or country. Is the policy documented and communicated to all personnel working for, or on behalf of, your organization? Cant you just use your IS/ISO 50001 system to manage your energy related matters? What is is/ISO 50001? When did your organization establish the energy management system at this site? What is the difference between ISO 50001 standard and IS/ISO 50001 standard? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right

questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make ISO 50001 investments work better. This ISO 50001 All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth ISO 50001 Self-Assessment. Featuring 974 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which ISO 50001 improvements can be made. In using the questions you will be better able to: - diagnose ISO 50001 projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in ISO 50001 and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the ISO 50001 Scorecard, you will develop a clear picture of which ISO 50001 areas need attention. Your purchase includes access details to the ISO 50001 self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific ISO 50001 Checklists - Project management checklists and templates to assist with implementation **INCLUDES LIFETIME SELF ASSESSMENT UPDATES** Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. ISO 50001 - A strategic guide to establishing an energy management system provides a practical but strategic overview for leadership teams of what an EnMS (energy management system) is and how implementing one can bring added value to an organisation. This proceedings volume convenes peer-reviewed, selected papers presented at the XXVIII International Joint Conference on Industrial Engineering and Operations Management (IJCIEOM) that was held in Mexico City, Mexico, July 17-20, 2022, with a special focus on applications of industrial engineering and operations management for research and practice. Fields covered include operations, manufacturing, industrial and production engineering and management, emphasizing optimization models and data science applications to real-world problems. In this book, the reader will find works on topics as optimization models; stochastic optimization; digital transformation in the supply chain; data science applications in operations management; Industry 4.0: manufacturing planning & control; blockchain; intelligent transportation systems; sustainable and reverse logistics; big data and demand planning; predictive and prescriptive analytics; last-mile delivery optimization; stochastic inventory models; new trends in information technology for operation management; stochastic optimization; optimization models for omnichannel; safety in operation management; and more. This volume includes relevant information for academics, since most of the

chapters focus on real-world case studies and systematic reviews, but also for professionals in the industrial sector as it presents solutions to complex industrial challenges. Previous 2018, 2019, 2020, and 2021 IJCIEOM proceedings can also be found in Springer's catalog. This volume gathers selected peer-reviewed papers presented at the XXVI International Joint Conference on Industrial Engineering and Operations Management (IJCIEOM), held on July 8-11, 2020 in Rio de Janeiro, Brazil. The respective chapters address a range of timely topics in industrial engineering, including operations and process management, global operations, managerial economics, data science and stochastic optimization, logistics and supply chain management, quality management, product development, strategy and organizational engineering, knowledge and information management, work and human factors, sustainability, production engineering education, healthcare operations management, disaster management, and more. These topics broadly involve fields like operations, manufacturing, industrial and production engineering, and management. Given its scope, the book offers a valuable resource for those engaged in optimization research, operations research, and practitioners alike. Provides a unique overview of energy management for the process industries Provides an overall approach to energy management and places the technical issues that drive energy efficiency in context Combines the perspectives of freewheeling consultants and corporate insiders In two sections, the book provides the organizational framework (Section 1) within which the technical aspects of energy management, described in Section 2, can be most effectively executed Includes success stories from three very different companies that have achieved excellence in their energy management efforts Covers energy management, including the role of the energy manager, designing and implementing energy management programs, energy benchmarking, reporting, and energy management systems Technical topics cover efficiency improvement opportunities in a wide range of utility systems and process equipment types, as well as techniques to improve process design and operation 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). This powerful standard from the International Organization for Standardization (ISO) provides an internationally recognized framework for

organizations to voluntarily implement an energy management system. What is ISO 50001? ISO 50001 is the international standard specifying requirements of the energy management system (EnMS). The standard is so comprehensive and robust that many developed countries in the world have adopted it at the state level to guide companies for energy management and how to enhance energy performance. About the Book ISO 50001 - Fundamentals of Energy Management System (EnMS) is an exclusive book on energy management and ISO 50001 standard explaining it in simple terms, discussing its context, national standards preceding to it, the context in which the standard was developed, the comparison between ISO 50001:2018 and ISO 50001:2011, the main provisions and clauses of ISO 50001:2018 and an insight into the concept and terminologies in the standard and its significance with the requirements of ISO 50001:2018. The book contains graphics, illustrations, and well-presented content to help our readers understand the concepts and ideas easily with no difficulty. The book contains its reading outcomes and a summary of the important content discussed in this book to help the readers retain the important information. The Audience of the Book The book is designed for professionals and industrial players who want to know about ISO 50001 standard and energy management in less time without going into the details of each and every clause. This book is ideal for professionals in top management, who don't have much time to read every clause on the standard rather they need to know some fundamentals to lead their teams and to interact with them. This book can also be used by beginners who are afraid of difficult terminology of the standard and other authors who wrote those pieces in difficult terms. Beginners can also understand the standard in less time going through this book. Outcome-Based Reading After completing this book, you will be able to: Define the role of the Energy Management System (EnMS). Narrate the differences between EnMS versus EMIS and how they can complement each other. Explain the framework of ISO 50001 and its Benefits. Examine the changes in ISO 50001:2018 from the earlier edition. Define the Energy-related and EnMS Terminologies in ISO 50001:2018. Compare the difference between Energy Baseline (EnB) and Energy Performance Indicators (EnPIs). State the definitions of Terminologies related to Energy Performance and other Technicalities. Describe the role of the Environmental Management System versus the Energy Management System. Explain the PDCA (Plan-do-check-Act) model in ISO 50001:2018. List the important provisions of ISO 50001:2018 covering all auditable clauses. In the U.S., the ISO 50001 Standard, which establishes energy management systems (EnMSs) and processes, has shown uptake primarily in the industrial sector. The U.S. Department of Energy (DOE) undertook a pilot program to explore ISO 50001 implementation in commercial buildings. Eight organizations participated as pilots, with technical assistance provided by DOE, the National Renewable Energy Laboratory (NREL), the Lawrence Berkeley National Laboratory (LBNL), and the Georgia Institute of Technology (Georgia Tech). This paper shares important lessons learned from the pilot. Staff time was the most critical resource required to establish effective EnMSs in commercial buildings. The pilot also revealed that technical support and template/example materials were essential inputs. Crucial activities included evaluating performance, identifying goals, making connections, communicating operational controls, and tracking/reviewing progress. Benefits realized included enhanced intra-organizational

connections, greater energy awareness, increased process efficiencies, and improved ability to make business cases. Incremental benefits for ISO 50001 certification were greater accountability, assurance of best practices, public relations opportunities, and potential to unlock verified savings credits or incentive money. Incremental certification costs included more staff/consultant time, money for certification, and a tendency to limit EnMS scope in order to ensure favorable audit results. Five best practices were identified - utilizing expert technical assistance, training, and other resources; focusing on implementation over documentation; keeping top management involved; considering organizational structure when selecting EnMS scope; and matching the implementation level to an EnMS's scope and scale. The last two practices are particularly relevant to the commercial buildings sector.

Solving Urban Infrastructure Problems Using Smart City Technologies is the most complete guide for integrating next generation smart city technologies into the very foundation of urban areas worldwide, showing how to make urban areas more efficient, more sustainable, and safer. Smart cities are complex systems of systems that encompass all aspects of modern urban life. A key component of their success is creating an ecosystem of smart infrastructures that can work together to enable dynamic, real-time interactions between urban subsystems such as transportation, energy, healthcare, housing, food, entertainment, work, social interactions, and governance. *Solving Urban Infrastructure Problems Using Smart City Technologies* is a complete reference for building a holistic, system-level perspective on smart and sustainable cities, leveraging big data analytics and strategies for planning, zoning, and public policy. It offers in-depth coverage and practical solutions for how smart cities can utilize resident's intellectual and social capital, press environmental sustainability, increase personalization, mobility, and higher quality of life. Brings together experts from academia, government and industry to offer state-of-the-art solutions for urban system problems, showing how smart technologies can be used to improve the lives of the billions of people living in cities across the globe. Demonstrates practical implementation solutions through real-life case studies. Enhances reader comprehension with learning aid such as hands-on exercises, questions and answers, checklists, chapter summaries, chapter review questions, exercise problems, and more. Informed by the authors' extensive experience in helping organizations improve the performance of their management systems.

Inside Energy: Developing and Managing an ISO 50001 Energy Management System covers how to apply each of the many requirements of the standard in a systematic and comprehensive manner. It discusses how converting an existing sub-optimal energy system into a state-of-the-art high quality one produces a demonstrably high return on investment. The book explores how to achieve energy performance targets and qualify for ISO 50001 registration. It helps you manage the skills, knowledge, and experience of the many experts who will participate in your organization's Energy Management System (EnMS) policy, planning, and implementation. This book provides practical information for understanding and developing an ISO 50000 Energy Management System (EnMS), including clear and concise explanations of the standards and requirements. Building from chapter to chapter, it supplies comprehensive direction for developing, implementing, and managing an EnMS. The text also explains the relationship between ISO 9000 and 14000, and offers guidance for integrating EnMS concepts with existing organizational

policies, processes, and procedures. It also offers additional guidance on methods available to management and energy teams when implementing the ISO 50001 requirements. The book takes readers through the steps that can transform existing energy management systems to far more effective ones that significantly reduce the costs of energy in the business• bottom line. It includes perspectives on multinational and national energy and environment policies that will likely affect the cost of energy purchased in the world•s markets. Using the information found in this book, you can save your organization money by increasing energy efficiency and/or reducing and more effectively managing energy generation or usage. You can also reduce generation of greenhouse gas (GHG) emissions and promote improved public relations by demonstrating that the organization is taking measurable and tangible efforts (ISO 50001) to manage energy. Managers and academia targeting energy performance improvements have a valuable tool in ISO 50001 Energy Management Systems, which allows for a certification after third-party audits. Business managers may reduce costs and fully tap the strategic potential of energy as a competitive factor. Academic lecturers can introduce energy in their specific field of teaching and research, helping their students to be successful. Students get a unique selling proposition being endowed with this cutting-edge expertise when applying for a job. The book provides an overview of energy and business administration as an evolving field, outlining the theoretical framework supported by practical examples. Energy oriented business administration involves • accountancy: linking technical energy reviews to cost- and revenue accounting, • operations, procurement, and supply chain management: implementing “demand side management” profiting of volatile electricity costs at the exchange, • managerial accounting: supporting decisions by energy performance indicators, making use of smart metering, business intelligence, and in-memory databases, • strategic planning and CSR: outpacing competitors while living up to ethical values. Your strategic guide to energy management and ISO 50001, this book provides a practical but strategic overview for leadership teams of what an energy management system is and how implementing one can bring added value to an organization. -- Cost Management in Plastics Processing: Strategies, Targets, Techniques, and Tools, Fourth Edition, makes readers think about current practices and how to go forward with effective cost management. This is a practical workbook that provides a structured approach to reducing costs in plastics processing for all the major plastics shaping processes (moulding, extrusion, forming) as well as elsewhere in the company (e.g., in factory services and non-manufacturing areas). Competition in all manufacturing sectors is increasing, and there is continuous pressure to drive costs down and to increase cost management. Good cost management improves profits and margins, improves management control and opens the door to becoming a world-class company. The approach throughout this book looks rigorously at where costs are incurred and proposes projects and targets for cost reduction. This book is designed to provide a well-structured map broken down into simple tasks and achievable goals. This book offers a structured approach to the techniques of cost management, from how costs are calculated by accountants, to the effective use of machines and labor, to the minimization of waste. It begins by looking at traditional methods of accounting and costing and whether these are helpful or accurate for project management. Practical examples of cost management in plastics processing are

included, together with many useful flow charts and diagrams to illustrate the points under discussion. Enables plastics processors to institute an effective cost management system, going beyond simply trying to cut costs Provides a holistic perspective on cost management, shining a light on areas on costs which may not have previously been considered or accounted for, and proposing projects and targets for cost reduction Serves as a route map to help companies move toward improved margins and greater profitability A methodology has been developed to determine the impacts of ISO 50001 Energy Management System (EnMS) at a region or country level. The impacts of ISO 50001 EnMS include energy, CO2 emissions, and cost savings. This internationally recognized and transparent methodology has been embodied in a user friendly Microsoft Excel® based tool called ISO 50001 Impact Estimator Tool (IET 50001). However, the tool inputs are critical in order to get accurate and defensible results. This report is intended to document the data sources used and assumptions made to calculate the global impact of ISO 50001 EnMS. Ever since 1989, the Faculty of Organizational Sciences, University of Belgrade, has been the host of SymOrg, an event that promotes scientific disciplines of organizing and managing a business. Traditionally, the Symposium has been an opportunity for its participants to share and exchange both academic and practical knowledge and experience in a pleasant and creative atmosphere. This time, however, due the challenging situation regarding the COVID-19 pandemic, we have decided that all the essential activities planned for the International Symposium SymOrg 2020 should be carried out online between the 7th and the 9th of September 2020. We are very pleased that the topic of SymOrg 2020, “Business and Artificial Intelligence”, attracted researchers from different institutions, both in Serbia and abroad. Why is artificial intelligence a disruptive technology? Simply because “it significantly alters the way consumers, industries, or businesses operate.” According to the European Commission document titled Artificial Intelligence for Europe 2018, AI is a key disruptive technology that has just begun to reshape the world. The Government of the Republic of Serbia has also recognized the importance of AI for the further development of its economy and society and has prepared an AI Development Strategy for the period between 2020 and 2025. The first step has already been made: the Science Fund of the Republic of Serbia, after a public call, has selected and financed twelve AI projects. This year, more than 200 scholars and practitioners authored and co-authored the 94 scientific and research papers that had been accepted for publication in the Proceedings. All the contributions to the Proceedings are classified into the following 11 sections: Information Systems and Technologies in the Era of Digital Transformation Smart Business Models and Processes Entrepreneurship, Innovation and Sustainable Development Smart Environment for Marketing and Communications Digital Human Resource Management Smart E-Business Quality 4.0 and International Standards Application of Artificial Intelligence in Project Management Digital and Lean Operations Management Transformation of Financial Services Methods and Applications of Data Science in Business and Society We are very grateful to our distinguished keynote speakers: Prof. Moshe Vardi, Rice University, USA, Prof. Blaž Zupan, University of Ljubljana, Slovenia, Prof. Vladan Devedži?, University of Belgrade, Serbia, Milica ?uri?-Jovi?i?, PhD, Director, Science Fund of the Republic of Serbia, and Harri Ketamo, PhD, Founder & Chairman of

HeadAI Ltd., Finland. Also, special thanks to Prof. Dragan Vukmirović, University of Belgrade, Serbia and Prof. Zoran Ševarac, University of Belgrade, Serbia for organizing workshops in fields of Data Science and Machine Learning and to Prof. Rade Matić, Belgrade Business and Arts Academy of Applied Studies and Milan Dobrota, PhD, CEO at Agremo, Serbia, for their valuable contribution in presenting Serbian experiences in the field of AI. The Faculty of Organizational Sciences would to express its gratitude to the Ministry of Education, Science and Technological Development and all the individuals who have supported and contributed to the organization of the Symposium. We are particularly grateful to the contributors and reviewers who made this issue possible. But above all, we are especially thankful to the authors and presenters for making the SymOrg 2020 a success! Informed by the authors' extensive experience in helping organizations improve the performance of their management systems, *Inside Energy: Developing and Managing an ISO 50001 Energy Management System* covers how to apply each of the many requirements of the standard in a systematic and comprehensive manner. It discusses how converting an existing sub-optimal energy system into a state-of-the-art high quality one produces a demonstrably high return on investment. The book explores how to achieve energy performance targets and qualify for ISO 50001 registration. It helps you manage the skills, knowledge, and experience of the many experts who will participate in your organization's Energy Management System (EnMS) policy, planning, and implementation. This book provides practical information for understanding and developing an ISO 50000 Energy Management System (EnMS), including clear and concise explanations of the standards and requirements. Building from chapter to chapter, it supplies comprehensive direction for developing, implementing, and managing an EnMS. The text also explains the relationship between ISO 9000 and 14000, and offers guidance for integrating EnMS concepts with existing organizational policies, processes, and procedures. It also offers additional guidance on methods available to management and energy teams when implementing the ISO 50001 requirements. The book takes readers through the steps that can transform existing energy management systems to far more effective ones that significantly reduce the costs of energy in the business' bottom line. It includes perspectives on multinational and national energy and environment policies that will likely affect the cost of energy purchased in the world's markets. Using the information found in this book, you can save your organization money by increasing energy efficiency and/or reducing and more effectively managing energy generation or usage. You can also reduce generation of greenhouse gas (GHG) emissions and promote improved public relations by demonstrating that the organization is taking measurable and tangible efforts (ISO 50001) to manage energy. You may wonder, "Why do we need ISO 50001 EnMS when we have already implemented ISO 14001 Environmental Management (EMS)?" Energy is part of an EMS. Energy is an aspect that is nonrenewable and a must for every organization to have. In ISO 14001 EMS, it is easy to focus on hazardous materials and aspects that have considerable risk in the workplace. Energy use can be easily overlooked, and even when it is considered for an objective and target (O&T), important questions such as what are the significant energy users (SEUs), what can we do to reduce their impact, and what are the variables that affect energy use are not answered. An ISO 50001 Energy Management System (EnMS) allows

an organization to focus on reducing energy consumption through establishing a compelling energy policy, establishing legal and other requirements and ensuring that they are being met, and conducting a comprehensive energy review that identifies energy efficiencies, energy conservation efforts implemented, and O&Ts with energy action plans that, when achieved, moves the organization toward meeting its energy policy. For manufacturing companies, energy costs impact both the cost to produce the product and the product price. For government organizations, energy reduction is mandated by executive orders. Everyone benefits from reducing energy consumption, from the environment to the economic health of companies. ISO 50001 EnMS can be implemented by itself or with other ISO standards such as 9001, and 14001 or with OHSMS 18000. The choice is yours—let's make this a better place to live and work and with less cost. ISO 50001:2018 is the new version of Energy Management system standard which the organizations are adopting for improving energy performance through structured approach. The need for energy conservation is being felt because of number of issues, more particularly, Green house gas emissions and ever increasing cost of energy. This book presents the clause wise requirements of ISO 50001:2018 and also actions required for implementation. The requirements of clause is represented pictorially for easy understanding. The GCBME Book Series aims to promote the quality and methodical reach of the Global Conference on Business Management & Entrepreneurship, which is intended as a high-quality scientific contribution to the science of business management and entrepreneurship. The Contributions are the main reference articles on the topic of each book and have been subject to a strict peer review process conducted by experts in the fields. The conference provided opportunities for the delegates to exchange new ideas and implementation of experiences, to establish business or research connections and to find Global Partners for future collaboration. The conference and resulting volume in the book series is expected to be held and appear annually. The year 2019 theme of book and conference is "Creating Innovative and Sustainable Value-added Businesses in the Disruption Era". The ultimate goal of GCBME is to provide a medium forum for educators, researchers, scholars, managers, graduate students and professional business persons from the diverse cultural backgrounds, to present and discuss their researches, knowledge and innovation within the fields of business, management and entrepreneurship. The GCBME conferences cover major thematic groups, yet opens to other relevant topics: Organizational Behavior, Innovation, Marketing Management, Financial Management and Accounting, Strategic Management, Entrepreneurship and Green Business. Green Chemistry concerned with chemical research and engineering that encourages the design of products and processes that minimize the use and generation of hazardous substances. It is effective in controlling the impact of chemicals on human health and the environment. Chemists and chemical engineers applying green chemistry look at the entire life cycle of a product or process, from the origins of the materials used for manufacturing to the ultimate fate of the materials after they have finished their useful life. This book is written especially for researchers at various levels e.g. in industry, R&D Laboratories, University and College laboratories etc. It describes a large number of organic reactions under green conditions. The conditions used are aqueous phase, using PTC catalyst, sonication and microwave technologies. This book presents innovative research on various

aspects of sustainability in the field of operations management and illustrates the potential of sustainability thinking and practice to improve operations performance and thereby meet customer needs. Particular attention is devoted to corporate social responsibility and marketing strategy, knowledge management for sustainability, the role of culture in a sustainable built environment, sustainable manufacturing through the application of lean and green concepts, advancing sustainability through ISO standards, and the sustainable supply chain. The present decade is proving to be a time of change in terms of business strategies and operations management. Many of the trends are still subject to uncertainty, but an understanding of the need for, and benefits of, sustainability can give a clear indication of their trajectory. Consumers and markets in general believe that while implementing their business strategies, companies should also try to improve society and the environment and to exercise social responsibility toward their employees. This book provides insights into how this may be achieved, and it is recommended for researchers as well as all practitioners and managers dedicated to enhancing sustainability in operations.

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