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SOME STUDIES OF THE CIRCULAR ECONOMY IN SMALL AND MEDIUM ENTERPRISES

Annotation. A circular economy is a system in which resources are redeployed or reused, and waste becomes an input for further production. This perception is due to the rapid urbanization, climate change, soil pollution, technological advances and the growing need to use limited natural resources. According to a World Bank study, 90 percent of the world's businesses and 50 percent of jobs are small and medium-sized enterprises. It is estimated that 600 million new jobs will be added in 2030, and that 7 out of 10 jobs will be created by small and medium industries. In order to meet the growing needs, intensive support and policy development of small and medium industry remains the priority goal of the countries of the world. However, it is important to develop this growing small and medium business with the concept of circular economy and sustainable development. Therefore, research and academic activities on the circular economy in small and medium industries are gaining strength. In this study, the main research works on the circular economy in small and medium industries conducted at the country level are reviewed.

Keywords. Circular economy, sustainable development, small and medium industry, circular economy in small and medium industry.

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НЕКОТОРЫЕ ИССЛЕДОВАНИЯ ЭКОНОМИКИ ЗАМКНУТОГО ЦИКЛА НА МАЛЫХ И СРЕДНИХ ПРЕДПРИЯТИЯХ

Аннотация: Экономика замкнутого цикла - это система, в которой ресурсы перераспределяются или используются повторно, а отходы становятся сырьем для дальнейшего производства. Такое восприятие обусловлено быстрой урбанизацией, изменением климата, загрязнением почвы, технологическим прогрессом и растущей потребностью в использовании ограниченных природных ресурсов. Согласно исследованию Всемирного банка, 90 процентов предприятий в мире и 50 процентов рабочих мест приходится на малые и средние предприятия. Подсчитано, что в 2030 году будет создано 600 миллионов новых рабочих мест, и что 7 из 10 рабочих мест будут созданы в малых и средних отраслях промышленности. Для удовлетворения растущих потребностей приоритетной целью стран мира остается интенсивная поддержка и политическое развитие малого и среднего бизнеса. Однако важно развивать этот растущий малый и средний бизнес в соответствии с концепцией экономики замкнутого цикла и устойчивого развития. Таким образом, исследовательская и академическая деятельность по экономике замкнутого цикла в малых и средних отраслях промышленности набирает силу. В этом исследовании рассматриваются основные исследовательские работы по экономике замкнутого цикла в малых и средних отраслях промышленности, проведенные на страновом уровне.

Ключевые слова: экономика замкнутого цикла, устойчивое развитие, малая и средняя промышленность, экономика замкнутого цикла в малой и средней промышленности.

RESEARCH METHODS

Conclusions in the questionnaire, document research, summarizing and comparison.

THE PURPOSE OF THE STUDY

To summarize the main studies of the circular economy in SMEs conducted at the country level, and to identify the common obstacles to the introduction of the circular economy in SMEs.

In summary of the following research activities carried out in the area of circular economy in small and medium businesses:

Doğuş Binek: Small and medium-sized enterprises within the circulareconomy: challenges and opportunities, 2020

In this study, the concept of circular economy and the knowledge about the challenges and opportunities faced by SMEs in implementing the circular economy were determined. Research shows that SMEs lack awareness of circular economy opportunities and their focus is on their core business activities, and the findings indicate that there is a need for a strong government agenda and support from policymakers who understand the challenges faced by SMEs.[1]

Prasanta Kumar Dey, Chrysovalantis Malesios, Soumyadeb Chowdhury, Krishnendu Saha, Pawan Budhwar, Debashree De, Adoption of circular economy practices in small and medium-sized enterprises: Evidence from Europe, International Journal of Production Economics, 2022

The adoption of the Circular Economy in European small and medium-sized enterprises (SMEs) and its impact on sustainability performance is investigated. This study analyzes the current state of the impact on sustainability performance of the main functional areas (design, procurement, production, distribution, consumption and recovery) of FEE for SMEs in France, Greece, Spain and the UK. Data were collected from about 100 SMEs in each country through a mixed method (survey, interview, case study) and the resource-based concept was theoretically discussed. It has been shown that adopting circular economy standards can lead to higher environmental performance through energy and resource savings and waste reduction. In addition, the «design» function contributes the most to the introduction of feasibility studies in SMEs, while the «regeneration» function contributes the least, considering the current practice. From a theoretical point of view, the problems and challenges, the impact of support from customers and policy makers, and the motivation of SMEs to adopt feasibility studies are identified. Based on the results of the study, we have proposed a framework for SMEs to develop strategic initiatives to introduce feasibility studies into business operations. [2]

Fabian Takacs, Dunia Brunner, Karolin Frankenberger; Barriers to a circular economy in small- and medium-sized enterprises and their integration in a sustainable strategic management framework

This research examines internal and external barriers that companies face in implementing circular economy measures. Six company-internal barriers (risk aversion, short-term orientation, economically dominant mindset, commercial reluctance, lack of resources, and lack of knowledge) and company-external barriers were identified based on 59 interviews with managers of Swiss SMEs in three sectors. four levels (technology, market, legislative, society and consumers). Based on the findings, six broad strategic recommendations are presented. [3]

Astadi Pangarso, Kristina Sisilia, Yahya Peranginangin; Circular Economy Business Models in the Micro, Small, and Medium Enterprises: A Review Etikonomi

The paper summarizes all the literature findings analyzed in the Scopus paper up to June 2021 on circular economy business models implemented by SMEs. The results are based on evidence based on research and practice gaps in circular economy based business models and SMEs. [4]

John Thorley, Jose Arturo Garza-Reyes, The circular economy impact on small to medium enterprises

A systematic review of the literature on the circular economy revealed a lack of research on micro-level impacts on small and medium-sized enterprises (SMEs) and identified a need for a paradigm shift in circular economy thinking at the micro-level, identifying new skills, resources, approaches and business models.[5]

Yun (Yvonne) Yang, Hee Song Lee, Hyung Lim Suh, Togo Uchida, Yuko Hori, Best Practices of Circular Food Production and Consumption in Japan and Korea

Faced with profound changes in production and consumption patterns in urban and rural areas, the food system has become one of the important sectors that focus on many social and environmental issues. This guide examines food production in East Asian countries, including Japan and Korea, in relation to the circular economy.[6]

Andrea Cantú, Eduardo Aguiñaga, Carlos Scheel: Learning from Failure and Success: The Challenges for Circular Economy Implementation in SMEs in an Emerging Economy

There is sufficient research on the barriers and opportunities for the implementation of circular economy in large companies and developed economies, but there is insufficient research on the factors influencing the implementation of circular economy in small and medium enterprises (SMEs) in developing economies. This study identifies the internal and external barriers SMEs face in implementing circular economy initiatives in developing economies and how to leverage circular economy implementation through a bottom-up approach. In the case of Mexico. It is designed to help practitioners, policymakers and researchers create the conditions necessary to accelerate the transition to a circular economy in these regions.[7]

RESEARCH RESULTS AND CONCLUSIONS

Summing up from the above studies, the following common problems are faced by countries in introducing the circular economy to SMEs. It includes:

Lack of understanding of the circular economy is a problem for small and medium-sized businesses.

There is an urgent need for a policy to introduce and implement feasibility studies by the governments of countries. It is important for countries to develop and follow the feasibility study model.

Feasibility study has been done well in developed countries, but it is not enough in developing countries, which is a problem for introduction of Feasibility Study.

References

Doğuş Binek: Small and medium-sized enterprises within the circular economy: challenges and opportunities, 2020.

Prasanta Kumar Dey, Chrysovalantis Malesios, Soumyadeb Chowdhury, Krishnendu Saha, Pawan Budhwar, Debashree De, Adoption of circular economy practices in small and medium-sized enterprises: Evidence from Europe, International Journal of Production Economics, 2022.

Fabian Takacs, Dunia Brunner, Karolin Frankenberger; Barriers to a circular economy in small- and medium-sized enterprises and their integration in a sustainable strategic management framework Journal of Cleaner Production Volume 362, 15 August 2022.

Astadi Pangarso, Kristina Sisilia, Yahya Peranginangin; Circular Economy Business Models

in the Micro, Small, and Medium Enterprises: A Review Etikonomi Volume 21 (2), 2022: 313 - 334 P-ISSN: 1412-8969; E-ISSN: 2461-0771.

John Thorley, Jose Arturo Garza-Reyes, The circular economy impact on small to medium enterprises, waste management conference-2018.

Yun (Yvonne) Yang, Hee Song Lee, Hyung Lim Suh, Togo Uchida, Yuko Hori, Best Practices of Circular Food Production and Consumption in Japan and Korea A Handbook for Local Governments, 2021.

Andrea Cantú, Eduardo Aguiñaga, Carlos Scheel: Learning from Failure and Success: The Challenges for Circular Economy Implementation in SMEs in an Emerging Economy, 2021.

Micro, Small and Medium sized Enterprises and their role in achieving the Sustainable Development Goals, UNDESA.