

MEASURING SDG#12 METRICS AND TARGETS

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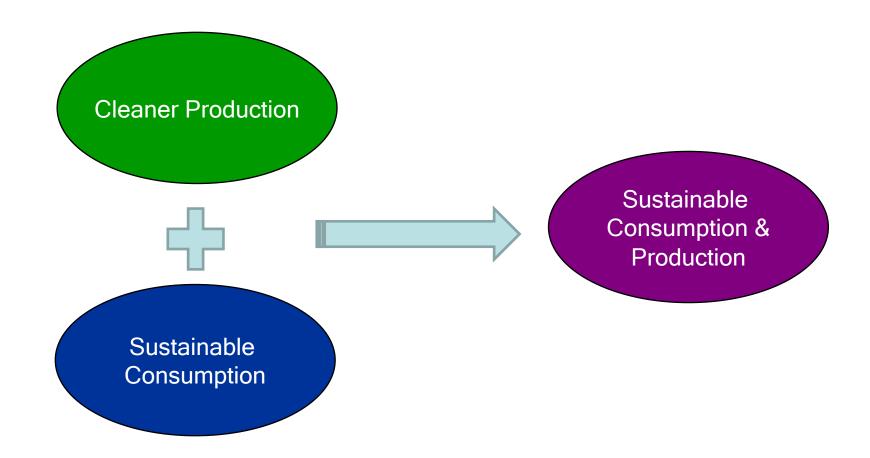
Cleaner Production

"The continuous application of an integrated preventive environmental strategy to processes, products and services, to increase efficiency and reduce risks to humans and environment"

"The use of services and related products which respond to basic needs and bring a better quality of life while minimising the use of natural resources and toxic materials as well as the emissions of waste and pollutants over the life cycle of the service or product so as not to jeopardise the needs of future generations"

Sustainable Consumption







- Changing consumption and production patterns towards more sustainable ones means improving:
 - Policy framework stimulating SCP
 - The technologies (or in some cases adopting the local indigenous knowledge) and processes involved in the productive activities;
 - The way basic services are provided, managed and distributed to the population;
 - The way communication and information are provided; and
 - The way consumers purchase



About the Sustainability Code - What does the Code offer?

- It provides support with establishing a sustainable development strategy and offers a way in to sustainability reporting. Regular reporting makes a company's development over time visible.
- It gives guidance on how to comply with the CSR reporting obligation
- The publicly accessible Code database creates visibility. The published reports can be compared with one another.
- Use of the Code is free of charge.



Objectives

- State which medium- and long-term goals your company has set itself as part of its sustainability strategy.
- Explain which goals are being prioritised and also how and why they are being prioritised.
- Explain how achievement of the strategic sustainability goals is being monitored and who within the company is responsible for this.
- State whether and how your sustainability goals are based on the United Nations' Sustainable Development Goals.



Criteria 1-4 Strategy

- 1. Strategic Analysis
- 2. Fields of Action
 - a) Research
 - b) Teaching
 - c) Operations
 - d) Transfer
 - e) Governance
- 3. Objectives
- 4. Organisational Integration



Criteria 5-10 Process Management: Governance

- 5. Responsibility
- 6. Rules and Processes
- 7. Ensuring Quality of Results
- 8. Incentive Schemes
- 9. Stakeholder Engagement
- 10. Transformation



Criteria 11 - 13 Environment: Operations

- 11. Usage and Management of Natural Resources
 - a) Life cycle of consumables, capital goods and services
 - b) Circular economy and disposal
 - c) Mobility
 - d) Nutrition
 - e) Energy
 - f) Water
- 12. Properties, Construction, Open Spaces (Campus Design)
- 13. Greenhouse Gas Emissions



Criteria 14-20 Society

14	Participation of the Institution's Members
15	Equal Opportunities
16	Qualifications
17	Human Rights
18	Common Good
19	Social Influence
20	Conduct that Complies with the Law and Policy



Production

Procurement

Turnover

Waste Management

Sustainability in Higher Education: developing – networking - reporting

Barriers

Lack of Management support

No sustainability strategy

Lack of financial resources

Lack of assessment of initiatives

Lack of participation, lack of capacities



Operation - VALUE CHAIN

Authors: Prof. Edeltraud Guenther, Dr. Anne-Karen Hueske, Nicolas Roos

General Proceeding: Legal Framework → Systematic Literature Review → Guideline-Analysis → Establish Operation Manual

Barriers and Driving-Forces



Legal Framework

HEI Level:

TU 9 Erklärung à Leitlinien für attraktive Beschäftigungsverhältnisse an TU9 Universitäten (2015)

Sächsisches Beamtengesetz (SächsBG)

Sächsisches Hochschulfreiheitsgesetz (SächsHSFG)

Federal Level:

Grundgesetz (GG) à z.B. Art. 3 GG Gleichheitsgrundsatz Wissenschaftszeitvertragsgesetz (WissZeitVG) Mutterschutzgesetz (MuSchuG) Mindestlohngesetz (MiLoG)

EU- Level:

EU- Arbeitszeitrichtlinie (2003/88/EG) à Mindesturlaub 4 Wochen, tägliche Arbeitszeit



Priving-Forces in Campus Operation

Pressure from costumers/students drives sustainable engagement

Participation of students in sustainable activities (infrastructure, disposal)

New Technologies, R&D, Acceptance of sustainable development

keeping people informed, communication, reporting















Driving Forces

- · Stakeholder communication
- (sustainable) Supply Chain Management
- Operative Integration in processes
- Leadership & Empowerment
- · Availability of Resources



Mobility Presentation of Research on November 9th 2018 at the TU Dresden HOCH-N Working-Session on Campus Organization and Mobility HR: Diversity & Contracts



Marketing

R&D

HEI - BSC

Financial Perspective	budgeting for adequate staff	Cost efficiency for staff	Staff cost within standard rate	employment and selection process
Customer Perspective	Resconable working conditions	Medium-term working-contracts	Fluctuation & average contracting time	Number of medium- term working- contracts
Process Perspective	Efficient processes	Average staff related working processes limited on 4 weeks till accomplishment	Average time of processing	Optimization of contracting processes
Development Perspective	Adequacy of limitation in relation to	Option of non- limitation of working-contracts	working- contracts up to 1 year; 3 years &	Abolishment of tenuous working- contracts

Barriers in Campus Operation

Low interest for sustainable development of students

Beginning on November 2018

Attracting students is challenging

Universität Vechta

- Legislation against sustainable activities
- · No support of sustainability, Resistance or willing to change
- Culture do not value energy savings
- Lack of capital & time, Lack of instruments, Lack of space (storing) waste)

Eventmanagement



















Barriers

- lack of support from government / authorities
- missing and / or inadequate legal requirements of Federal, state and university internal
- lack of or insufficient support from administrative level (s) of the university
- Deficits in cooperation / unity
- insufficient human and financial resources / resources resources



Barriers

- lack of continuity, lack or inadequacy Consciousness and (pre-) knowledge
- Inadequate commitment, effort and acceptance
- Lack of or lack of communication and in- and core partnerships lack of controls (systems) and incentives (systems)
- non-compliance with energy efficiency technologies (eg in buildings)
- insufficient energy efficiency behavior (light / device te-OFF, heating / ventilating rooms)
- inadequate waste prevention or recycling



Drivers

- Support and commitment by the university administration
- Positioning and formulations for sustainable corporate orientation in the mission statement as well as in strategies, programs, goals and measures
- clear responsibilities, institutionalization
- Implementation of standards and guidelines (ISO, EMAS)
- practical application and implementation of standards and guides
- Creation of human resources / resources for implementation Zung
- Further education on corporate sustainability topics
- Regularly inform university members and external partners engage in the sustainability process in a participatory way.



Drivers

- procurement / tendering of products / services about (legally compliant) sustainability criteria
- Use and establishment of sustainable mobility
- Material, energy and water efficiency
- Greenhouse gas, wastewater and waste prevention
- promoting the circular economy
- Awareness and motivation for sustainable behavior (Avoid and separate waste, eliminate light and technology heating / ventilating rooms)



Drivers

- Measurement / recording of sustainability performance (quantitative over consumption, technical measurement and qualitatively over Satisfaction, survey, survey)
- Key figure formation, data collection, accounting of puts and outputs
- Conducting success checks (eg internal audits)
- consideration of feedback and proposals and external partner
- Sustainability reporting



Conclusions

- Changes in procurement processes only in cooperation with the administration
- To provide as much information as possible, to appreciate the information needs of the procurer
- Necessary: Decision and support of top management for change processes and implementation of action routines
- Procurement processes are dynamic, requirements and offers change, and regular scheduling of the guideline is planned
- Process-accompanying information: Use of various media and channels (website, info-email, university magazine, staff meeting, service consultancy, training events, ...)
- Offensive offer for advice, information and cooperation.





Thank you for your attention



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