

Standardization of information flows in offshore wind logistics

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WINDENERGY LOGISTICS

Abstract

Currently, the working group "Offshore wind energy — Supply chain information flow" within the DIN Deutsches Institut für Normung e. V. standardization committee "offshore" wind energy" is developing an international standard (ISO standard) for exchanging logistics information. The working group "logistics" transfers innovative solutions and already existing best practice approaches for a standardized exchange of logistics information to an international standard. Due to the relevance of this topic the BLG took the lead for this standardization project (ISO 29404). In particular this presentation will show potentials and challenges of standardization.

This poster presentation will provide information about the current state of the international standardization project. On the one hand it will show the approach of the standard from a technical perspective. On the other hand it will illustrate the potentials of standardization from the perspective of the entire offshore supply chain.

Motivation and Objectives					
Information flow	Motivation				



Cost saving potential by improving the information flow between all involved parties Exchange of planning information and status information may improve operational decisions

Objective

- Contribution to actual standardization processes
- Transfer of logistics knowledge in order to provide comprehensive standards
- Focusing offshore wind logistics and corresponding informational requirements

Methods and results

Benefits of standardization

- Cost savings Standards help optimizing operations
- Enhanced customer satisfaction Standards help improving quality
- Standards help increasing stakeholders scope of influence
- Environmental benefits Standards help reducing negative impacts on the environment
- Access to new markets Standards help preventing trade barriers
- Increased market share Standards help increasing productivity
- Dissemination of innovation and research results

NA 132 Normenstelle Schiffs- und Meerestechnik DIN

- Standardization committee offshore wind energy
 - Communication (NA 132-02-12-01 AK)
 - Entry-level qualifications (NA 132-02-12-02 AK)
 - Emergency management/Communication (NA 132-02-12-03 AK)
 - \rightarrow Technical equipment (NA 132-02-12-04AK)
 - Working and living conditions (NA 132-02-12-06 AK)
 - Logistics in offshore wind energy (NA 132-02-12-05 AK)

ISO/TC 8/WG 3 Special offshore structures and support vessels

Ships and marine technology — Offshore wind energy — Ports and marine operations Ships and marine technology — Offshore wind energy — Supply chain information flow -

I am: Hello? urn:epc:id:sgtin:12345 6789.0123.001

Consistent identification of components

ISO



Origin: Manufacturer A Location: Port 1 Status: Provision completed







- Homogeneous data formats
- Consistent information flow along partners

Objectives of a supply chain information standard in the offshore wind industry

- Exchange of standardized information about basic material flow events
- Enabling the exchange of information about planned and actual events (e.g., provision of a component at the port)
- Coverage of different informational needs (e.g., logistics service providers, project owners or port operators)
- Offering homogeneous data formats providing interoperability between different implementations
- Usage of logistics data for company internal processes (e.g., inventory management) as well as usage for the coordination of supply chain processes
- Adaptability of the standard for specific supply chains



Conclusions

	intra-organizational	inter-organizational		Invitation to an expert survey
Identification	Avoiding misallocationsInventory management	Harmonic informationUniform numbering system	 ISO Standard is currently under development (DIS stage) 	We would like to invite you to take part in our online expert survey, which addresses the standardisation of supply chain information flows in offshore logistics. This survey is a part of the research
Events	 Transparency of own processes Uniform numbering system 	 Transparency along supply chain Defined and reliable information Expandability and individualization 	 Ongoing evaluation of the developed standard Meeting with international experts Continuous investigations of actual developments and standards 	project LogOff-Transfer. Access to the survey - scan QR code
Information exchange	 Secured intra organizational provision of information Information for documentation 	 Transparency of processes Flexible adjustment of plans Shorter time of reaction 	 Formation of a maintenance group for updating the developed standards 	BLG WINDENERGY LogISTICS WINDENERGY LogISTICS Contribute your may use modulouss: https://docs.google.com/forms/d/1Pj5ExcXv7CTcc1WejibOLVfX.GbsaB77HfTfOBQ JrSR0/viewform?Jusp=send_form

References

1. Schweizer, A.; Beinke, T.; Scholz-Reiter, B.: Das Logistiknetzwerk der Offshore-Windenergie. In: Industrie Management, 27 (2011) 6, S. 13-16



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