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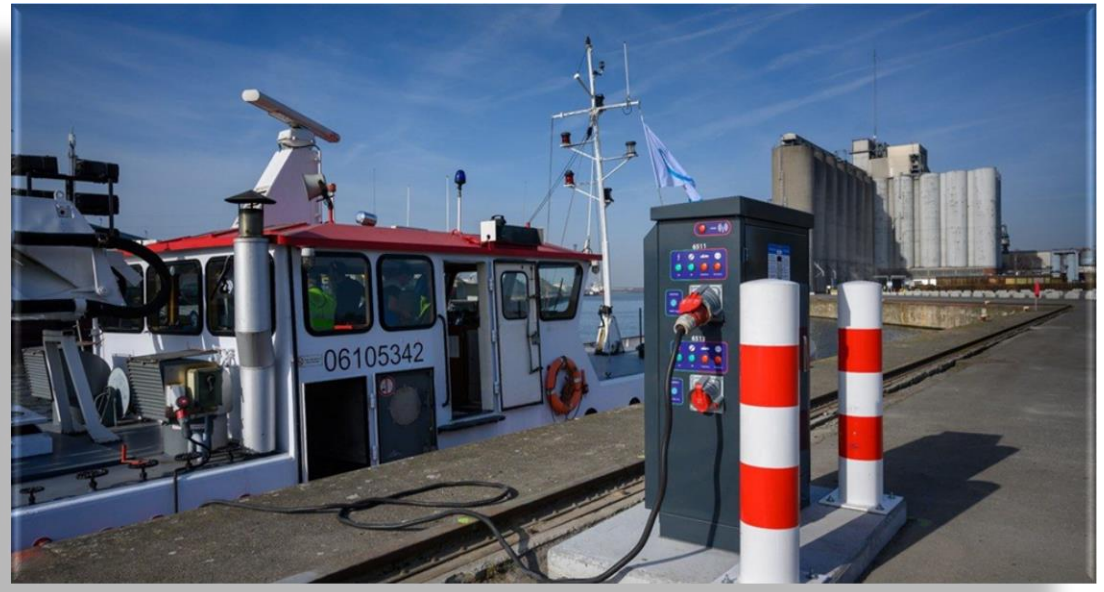
Awareness creation and know-how sharing

On-shore power supply - insights from KLIEN Project



Dieses Projekt wird aus Mitteln des Klima- und Energiefonds gefördert und im Rahmen des Programms “Elektromobilität in der Praxis” durchgeführt.

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KLIEN-Project :

National Project: funded by Klima-Energiefonds
Duration: 01.01.2020 – 31.12.2020

Objectives

- Analyse measures to create awareness of the stakeholders (shipping companies) to use on shore power supply in ports (were available), according to the guideline planning of viadonau on the Danube in AT
- Promotion of the application along the whole Waterway Danube in the ports
- Reduction of CO_2 emissions and noise during the stops in the ports

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WHAT HAPPEND SO FAR?

- Desktop research with regard to on-shore power supply
  - Situation in Austria / Guideline planning for the Austrian Danube (viadonau)
  - International situation of inland ports on the Danube (services..)
  - International situation of sea ports in Germany
  - Best practice example (Port of Amsterdam)
  - Alternatives (LNG PowerPac, LNG Power Barge)
  - Fundings/Initiatives
- Analyses with regard to on-shore power supply services in ports along the Danube
- Questionnaire for stakeholders (shipping companies) with regard to usage of application
  - Advantages/disadvantages
  - Barriers…

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Feedback from Stakeholder questionnaire

- Partial knowledge about on-shore power supply (depending on the operation of the vessels on which stretch of the Danube)
- Increasing awareness wrt environmental protection
- Captains of vessels welcome the application
- Alternative options LNG (lack of infrastructure on the Danube)
- Supply for cargo vessels (63 Ampere is enough)
- Supply for passenger vessels (power lock system)
- Upgrade on-board infrastructure – reconstruction of vessels
- Harmonized clearing-system (at least per country/national level)
- Harmonized infrastructure in ports
- On-shore power supply service during handling activities (maybe PowerPac System could be a solution)
- price/fees topic:
  - Diversification: where on-shore power supply is already obligatory (price/fees not an issue, acceptance very high, advantages for the staff on board is highlighted),

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Feedback from Stakeholder questionnaire

- Possible barriers
  - Lack of on-board infrastructure
  - No distortion of competition within the shipping industry.
  - The obligation must not reduce the competitiveness of shipping in regard to other modes of transportation.

- Positive aspects wrt obligation of on-shore power supply
  - Topic can be positively occupied: „green shipping“ during the stops in the ports
  - Positive contribution to sustainability
  - Already mandatory in other Countries (e.g. Germany, Holland…) and is therefore also used

- Information events in the form of Web-conferences
  - Environmentally friendly, resource-saving, time-saving

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Remarks

- Uniform standard in the ports with regard to on-shore power supply along the entire Danube
- Investments in on-board- and port infrastructure are necessary and important
- Positive aspects for shipping industry:
  - Less service intervals
  - Less diesel consumption
  - Less oil filter change
  - „green shipping“

THROUGH NEW TECHNOLOGY

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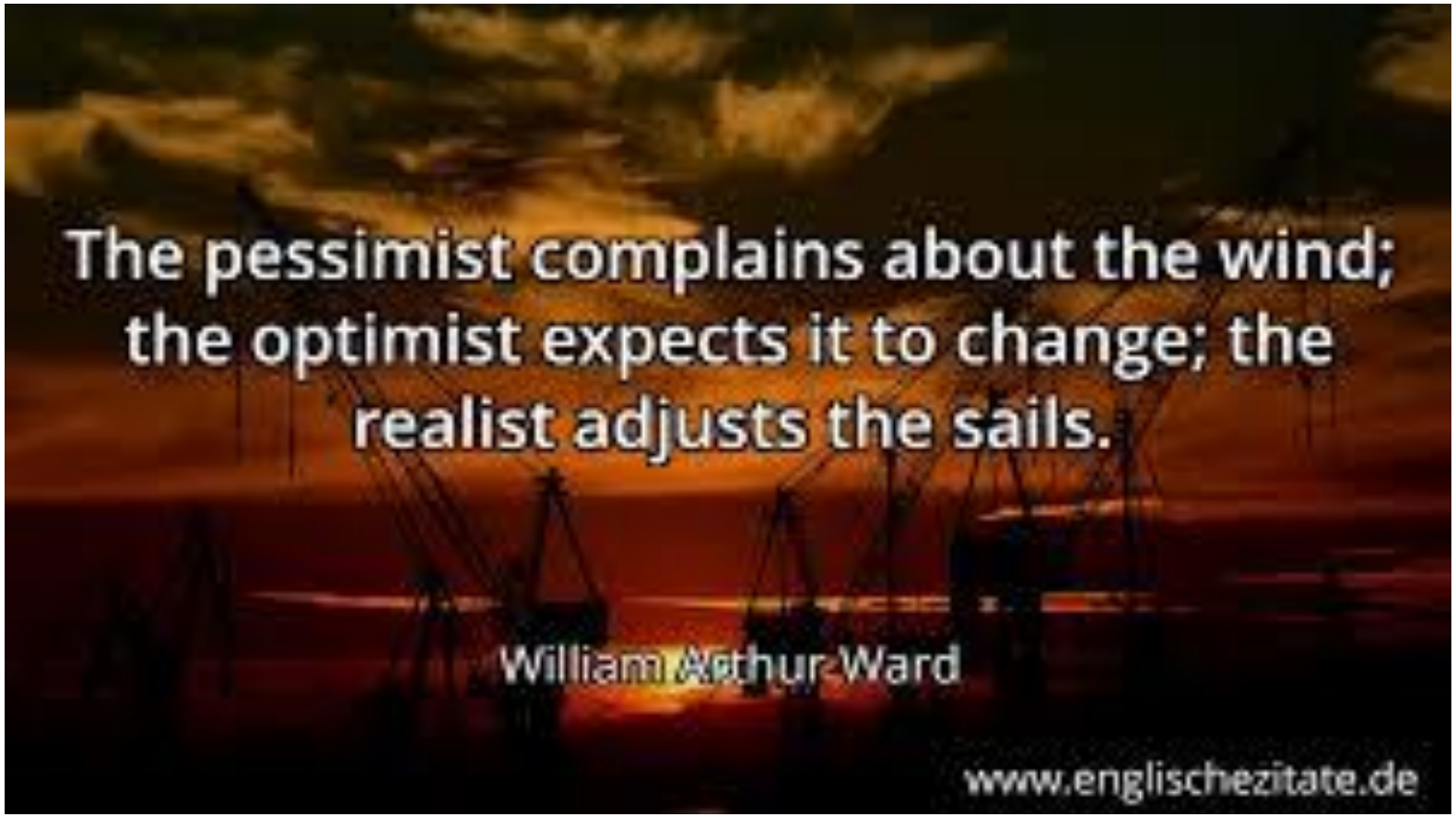

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