# CLIMATE CHANGE AND PORT OPERATIONS

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The port will be prepared for the future challenges of the global climate change through sustainable actions. Transport using waterways will be competitive in the future as well.

**Expansion of port operations with a focus on wind energy support:**

- Considering the environmental impacts of the port
- Analyzing the effects of the climate change on port operations
- Evaluating the viability of windpower for electricity production

| Strengths | Weaknesses |
|---|---|
| - Increasing market for off-shore wind power<br>- Use of waterways for transportation<br>- Increasing importance of (eco)tourism | - Dependence on weather conditions<br>- Competition with railway transportation<br>- Sensitivity to recession and strike |
| **Opportunities** | **Threats** |
| - Increasing wind power and speed<br>- Developing railroad connection<br>- Increasing use of waterways | - Increasing number of storms and floods<br>- Changing and more challenging legislation<br>- Competition between wind power and hydropower |

Table 1. SWOT for port operations and the use of wind power

- Key factors for future success: Preparing the infrastructure to withstand increasingly powerful storms and floods, using more efficient technology as part of port operations, applying renewable energy sources, opening the port to ecotourism, and predicting and following environmental regulations.

- Transportation using waterways can stay competitive compared to other kinds of transportations with continuous modernization and effective advertising.

- Windpower and hydropower should be considered solutions suitable for ports.

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