DISKUSSIONSRUNDE II

Anpassung von Logistikkonzepten an Niedrigwasser

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The Rhine and barge operations are of critical importance for the raw material supply of the Verbund Site Ludwigshafen.
Extreme low water levels in September / October 2018 significantly impacted BASF and the barging market

- Barge capacity dropped significantly (200-300t per barge)

- Major increase in number of shipments, shortage of barge capacity & availability in the market

- Freight costs (incl. demurrage) up to seven times higher than during normal water levels

- Logistics flows significantly disturbed and supply to the Ludwigshafen Site strongly impacted
BASF adapts its logistics chains for low water periods to be prepared for a dryness period as seen in 2018

- **Development of new digital tools to provide more accurate longer-term forecasts of Rhine Water levels.**

  This allows an early adaptation of the transport planning and inventory buildup for critical raw materials.

- **BASF has secured barges with improved tonnage capacity that can still operate even at lower water levels (Time Charter).**

  This secures the ability to transport critical raw materials even at longer-lasting low water levels.

- **Increased use of alternative transportation modes, especially via Rail.**

  Alternative modes can complement the supply with critical raw materials during low water periods and compensate the volume shortfalls of barges.

- **Construction and modification of loading stations.**

  If necessary, a quick switch between various transportation modes can be done to secure full raw material supply.
The roadmap "Niedrigwasser Rhein" is an important milestone. Prioritize the implementation of the defined measures!