

Wind Logistics Group

Continuation of PhD Reference Group

Web speed boat meeting
Lack of USA infrastructure

Venue: Online

Wind Logistics Group, speed boat meeting #2, September 22, 2020 at 14:00 PM CET

Continuation of Global Wind Energy Shipping and Logistics PhD project Reference Group

Agenda

1. Recap of speed boat efforts so far
2. Review goal of speed boat
3. Review progress made
4. Organize speed boat
5. Agree next steps, actions, and timelines

Lack of USA infrastructure - today's participants

- Who are the member companies?
 - DIS (formerly captain)
 - Vestas
 - NorSea
 - DHL Global Forwarding
 - KK Wind Solutions
 - Siemens Gamesa Renewable Energy

Joining today:

- Michael Snerling (DIS) – no
- Vestas?
- Martin Andreasen (NorSea) - no
- Knut Magne Johannessen (Elevon) – yes
- Ian La Pointe (Elevon) - yes
- Henrik Dalsgaard (DHL) - yes
- Thomas Sender Mehl (KK) – yes
- SGRE?

1. Around the room - intro

- Company by company
 - Names
 - Background of company
 - Background of persons




1. Recap of speed boat efforts so far

Recap of speed boat activity so far

- Group met online on April 22, 2020
 - DIS, Vestas, NorSea, DHL Global Forwarding, DSV, TINV/Panticon
- A subsequent information request was issued on May 11, 2020
- Results to be collated and shared

Speed boat opportunities:

- New captain sought
- More members needed – Siemens Gamesa and KK Wind have now joined; DSV temporized involvement



Wind Logistics Group
USA infrastructure speedboat
November 2019 – May 2020

Original project idea title: Lack of USA infrastructure for offshore wind

Summary of November 4, 2019 group discussions:

Funnel criteria: Believed to meet criteria of ROI, Scalability (can be run for Asia-Pacific markets in parallel), Geographies (US East Coast and US West Coast), Time to complete, and Skills

Scoping: Onshore and offshore wind infrastructure (not just offshore)

Geography: Focus on US East Coast first (US West Coast 2nd priority)

Supply chain: Inbound, port, and outbound (outbound for onshore wind only)

Modes of transport: Road, rail, barges, port, cranes, space, land

Timing: Project can be completed by working group in 6 months' time using a 3-staged methodology

Methodology:

1. Mapping of issues/challenges (for example port capacity, storage/space needs, equipment, trailer shortage, quay side, etc.)
2. Feasibility study (with upsides for example HSSEQ, standardization, risk mitigation) which to be reviewed with Wind Logistics Group when completed
3. Business case (funding secured if business case is positive and activity can be realized in 2020-2021)

Skills/competencies: Wind Logistics Group is not able to realize this project internally. External skills will be needed especially legal support, US ports/infrastructure providers, and key US stake-holders (suppliers, OEMs, operators/developers)

Things to watch out for: Legislation, political context, and local contents requirements

Volunteers:

Speedboat captain DIS (Morten Basse)

Speedboat crew members Vestas (TBD), DHL (Dorte Frandsen), NorSea Group (Knut Magne Johannessen)

Notes prepared by Thomas Poulsen, November 14, 2019
Notes reviewed by Morten Basse and Dorte Frandsen, December 4, 2019

www.tinv.dk www.windlogisticsgroup.com www.windscm.com

2. Review original goal of speed boat

Recap how we set out

Determine if still valid going forward

November 4, 2019

- Lack of USA infrastructure
 - Onshore and offshore
 - Road
 - Rail
 - Barges
 - Port
 - Cranes
 - Equipment
 - Space
 - Land

3. Review progress made

Looking back

Looking ahead

Since April 22, 2020

- Decision to do further mapping
 - How each speed boat member defines "infrastructure"
 - How each speed boat member sees the challenges faced
 - Outline the capabilities, skills, and experience each speed boat member can offer
- Input was not consolidated
- Another meeting did not take place

- Is this still our desired path forward?



4. Organize speed boat

Captain

Support

Crew

We need forward momentum

- Next Wind Logistics Group meeting is November 19, 2020
- Can we meet 2-3 times online before that? Do some homework?
- This requires that we organize ourselves:
 - We need a captain
 - We may also need some officers on deck
 - Speed boat crew member commitment required

5. Wrap-up

Actions

Next steps

Date in calendar

5. Wrap up, actions, and next steps

- Set a date for the next speed boat meeting?
- We know who will do what

Thank you for joining up today!

Next speed boat meeting:

Week of October 5, 2020 (TBD)

Next face-to-face meeting:

November 19, 2020

12:00 – 16:00 WLG meeting

16:00 – 18:00 after work meeting

NorSea Group Denmark, Esbjerg

This November 19 meeting can be conducted fully online (COVID-19)

Thank you for today's meeting!

We meet again (online or face-to-face) on November 19, 2020

- details will be advised

And in our speed boat before that...