

EffShip Project Meeting 2 Meeting Minutes

Meeting date and time: 2010-03-24, 9:00 – 12:00

Location: SSPA, Chalmers Tvärgata 10, Göteborg, Förslagsrummet

Meeting Attendees:

Björn Allenström, SSPA

Per Fagerlund, ScandiNAOS

Karin Andersson, Chalmers

Linda Styhre, SSPA

Per Holmström, DEC Marine

Carl-Otto Dahlberg, Svenska Orient Linien

Venkata Koneru, DEC Marine

Thomas Stenhede, Wärtsilä

Ola Stephanson, Wärtsilä

Bengt Ramne, ScandiNAOS

Björn Södahl, Chalmers

Joanne Ellis, SSPA

Anders Knös, S-Man AB

1. Information från projektledningen

- Björn Allenström (BA) stated that the contract has now been signed by all except Claes Källström, who is on sick leave, but this should hopefully be completed soon. Project partners are welcome to send in invoices for costs at any time.
- Invoices will be paid out by SSPA but will be reviewed by the Project Technical Leader, Bengt Ramne (BR) of ScandiNAOS, to confirm payments against progress made.
- BA and Per Fagerlund (PL) met with Stena on Friday about their possible participation in the project. Stena is interested in joining the project and has been asked to submit a short document explaining their areas of interest and contributions so that all project partners can consider it. Stena would finance their own participation and would contribute their own time to the project. They are interested in alternative fuels and in exhaust gas cleaning.
- The possibility of involving other interested ship operators - Österström and Laurin Marine were specifically mentioned – was discussed. It was decided to wait to hear from Stena first, but to leave open the possibility of others joining. New project participants will have finance their own contributions.
- Project web page: BR showed the website for the EffShip project (www.effship.com). To enter the partner area of the project website:
 - Username: Effship
 - Password: Roro22

Any interesting documents or reference material can be sent to BR for uploading to the web page. BR has placed a document there from a project carried out by Uddevallevarvet in the 1980s, “Energisnålt dieselfartyg”, which is of relevance to Effship.

2. Project Plan

BR has prepared a draft project schedule in Excel format. This was reviewed on a work package basis. When each WP leader has agreed with the project schedule it will be finalized and provided to all partners. It was stressed that every WP needs to have a deliverable: it can be a report, or drawings for a prototype, etc.

Each work package was discussed as follows:

- **WP2:** Present and Future Maritime Fuels: Wärtsilä is WP leader. Project description and work plan is under development. It was stressed that future availability of fuels should be considered in the WP. LNG and biofuels were discussed. There were also brief discussions about coal and nuclear power. It was agreed that the focus should be on fuels that will be ready for use on ships by 2015. Prototype installations should be possible at project completion in 2013.
- **WP3:** Exhaust Gas Cleaning: DEC is leading this and Venkata Koneru (VK) will organize a meeting with WP participants within the next few weeks to develop the work description and plan. VK mentioned that an economic assessment of exhaust gas cleaning compared to alternative fuels has been carried out within the SKEMA project, and this could be relevant. Methane slip was mentioned as important to consider, and how this can be dealt with both on the ship and on land. CSNO_x was also briefly discussed.
- **WP4:** Energy Efficiency and Heat Recovery. S-Man has produced a WP description and plan for this.
- **WP5:** A detailed WP description and plan has been prepared by Thomas Stenhede (TS) and is available on the project website. There have been 5 meetings for this WP and also 3 study visits. KTH ex-jobb students are also working within this WP doing some calculations. TS has had discussions with Add-power and they may be able to contribute expertise to the project. BR mentioned that in the future it would be good to invite other project partners who are not in WP5 to the study visits if there is space, as there has been interest expressed.
- **WP6:** System Impact when Using Wind, Wave, and Solar Energy. BA reported that there have been 3 meetings for this WP. There has also been contact with a UK charity called Greenwave that has produced a large-scale Flettner Rotor. A meeting with the charity directors has been arranged for late April in London. If sufficient technical information can be obtained from Greenwave it may not be worthwhile to build and test a full-scale Flettner rotor within the Effship project. Other work within the project includes developing a model for a kite to be used in SEAMAN software. This would help evaluate and compare the effects on machinery, propellers, etc. of the Flettner rotor and kites. Contact has also been made with SkySails in Germany. BR will prepare a short summary on the use of solar cells. Solar panels for heating may also be briefly investigated and discussed. Chalmers is not a official partner in WP6 but will be part of it to some extent and has promised to write a short description of the possible use of wave energy.

- **WP7:** Logistic System Analysis. Linda Styhre (LS) has prepared an updated project description and work plan which is available on the project website. The objective is to analyse possible logistic solutions for reducing environmental impacts, and the focus will be on dry bulk shipping. Dry bulk has been selected because there are large transport volumes involved and there has not been as much research focus on this area as compared with ro-ro and short sea shipping. There has been a meeting with Trans-bulk and discussions with Laurin Marine. Any suggestions for other companies are welcome. Öströms was suggested, as was the possibility of looking at tanker traffic. Work for this WP will be start in January 2011.
- **WP8:** Demonstrations of Findings. BR stressed the importance of having a platform to demonstrate project results. A ro-ro ship will be used but a tanker should also be developed. A 3-D model will be produced and the technologies that have been developed in the other WPs should be integrated into the model. All partners should contribute to this WP.
- **WP9:** Final reporting, dissemination. Material for six articles in Svensk Sjöfartstidning should be generated throughout the project. BR has shown a milestone date for each of these articles, and identified the WPs that should produce the material. There was also discussion of presentation of the project at “Stora Marindagen” on April 27th. There is no specific presentation of the project planned but several of the partners have presentations. BA stated that he can use the Effship ro-ro model within his presentation. Ola Stephanson said that it could also be used in the Wärtsilä presentation.

3. Other

Deadline for preparation of WP work plans and schedules was agreed to be May 1.

Action: WP leaders to submit work plans and schedules to BR by 2010-05-01.

4. Next Meeting

Date and time: 16 June 2010, 9:00 – 12:00

Place: SSPA Sweden AB, Chalmers Tvärgata 10

Minutes prepared by Joanne Ellis