

Weekly Report – Feedback Control

Team Leader: Mirza Dincer

Week Number: Week 2, 28 July to 1 August 2025

1. Summary of Progress This Week

Read and study last year's document, control chapter from Wind Energy Handbook and "A reference open-source controller for fixed and floating offshore wind turbines".

Mailed with Prof. Schlipf. He approved our general understanding of the project is correct. He sent the list of controllers he would like to see this year:

1. Pitch and Torque controller with setpoint smoother and filter design.
2. Tower damper
3. Coupling with LAC
4. Lidar-Boost: Increase of power when LAC is active

2. Milestone/Deadline Status

- Current Phase: Initial Preparations
- On Track?: Yes
- Notes:

3. Next Week's Plan

- Installing ROSCO. Studying with the examples that are given in the ROSCO GitHub. Also learning about the controllers and their implementations on ROSCO.

4. Request to Head of Project

- No request