

Weekly Report – Loads and Dynamics Team

Team Leader: Mohamed Reda Alywa

Week Number: [Week 1, 21 to 26 July 2025]

1. Summary of Progress This Week

- Successfully downloaded and installed the OpenFAST software for wind turbine simulation.
- Studied the Feed-Forward Control Strategy to enhance wind turbine performance.
- Studied a brief overview of LIDAR technology and its application in wind turbine control systems

2. Milestone/Deadline Status

- Current Phase: Concept Phase
- On Track?: Yes
- Notes: N/A

3. Next Week's Plan

- Once Professor Manjock shares the DNV-ST-0437 and IEC 61400-1 standards, the team will begin reviewing and studying the relevant guidelines.
- Awaiting environmental conditions data from the Project Development team to proceed with site-specific assessments.
- No major meetings are scheduled at this time.

4. Request to Head of Project

- Requesting access to complete environmental data for the simulation phase.
- No technical issues reported at the moment.
- No additional software or licenses required at this stage.