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**Hochschule Flensburg Wind Energy Technology Institude**

University of Applied Science Research on wind Energy

**Wind Farm Project in Gujarat, India**

**Wind Farm Project Development, WiSe 2024/25**

Master’s degree in Wind Engineering, Flensburg, Germany

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# Abstract

* Overview of the Project, Key Findings, Recommendations

# Introduction

## 2.1 The Evolution of Wind energy in India

## 2.2 Importance of Wind Energy in Gujarat

## 2.3 Objectives of the Report

## 2.4 Scope and Limitations

# Literature Review

## 3.1 Review of existing wind energy projects.

## 3.2 Relevant policies and technological advancements in wind energy.

# Methodology

# Pre-Processing

## 5.1 Site Selection and Mapping

* Identifying free areas suitable for wind farms.
* GIS and other tools used for mapping and analysis.

5.2 Law & Regulation as well as Park Layout

* Review of laws, regulations, and requirements (wind speed, land, etc.).
* Wind farm planning

## 5.3 Land Leasing

## 5.4 Informal Permission of Community

# Processing

## 6.1 Commissioning all necessary studies

## 6.2 Wind Measurement

## 6.3 Grid Connection

## 6.4 Profitability and Financing

## 6.5 Wind Area

# Post-processing

## 7.1 Permit Approval Process

## 7.2 Financial Support, Finding Investors and Find O&M company

## 7.3 Apply for Auction

## 7.4 Construction

## 7.5 Commissioning

## 7.6 Official Opening

# Conclusion

Summary of Key Points, Final Recommendations, Future Outlook

# References

# Appendices

Technical Data Sheets

Maps and Diagrams

Stakeholder Consultation Records

Additional Supporting Documents