



**Leading Light  
Wind**

# Attachments to Section 4



# Attachment 4.1

## Business Plan



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# **Attachment 4.2**

## **Feasibility Study**



## Leading Light Wind Feasibility Study

As discussed in Section 2, through coordination with industry leading suppliers and contractors, Leading Light Wind has conducted a comprehensive review of the expected equipment and construction costs for each of our project alternatives. These engagements have been used to optimize our project design choices as well as develop a reasonable forecast of expected construction costs. Key inputs that were reviewed and considered include those related to the Wind Turbine Generators (WTG), WTG Foundations, High Voltage Direct Current (HVDC) Transmission System, HVDC Export Cable(s), and High Voltage Alternating Current (HVAC) Inter-array Cables.

The following sections, along with the material in Section 2, provide the basis for the assumptions and costs underlying the Leading Light Wind project, inclusive of project alternatives.

### WTGs

#### Supply & Transport

##### *Scope & Assumptions*

Please refer to Section 2 and Section 8 for a thorough description of the assumptions that went into our costs. The scope for “WTG Supply & Transport” includes the following costs:

[REDACTED]

##### *Key Drivers*

Key drivers of the WTG Supply & Transport costs include:

[REDACTED]

[Redacted text block]

## Installation

### *Scope & Assumptions*

Please refer to Section 2 for a thorough description of the assumptions that went into our costs. The scope for “WTG Installation” includes the following costs:

[Redacted text block]

### *Key Drivers*

[Redacted text block]

[Redacted text block]

## WTG Foundations

### Supply

#### *Scope & Assumptions*

Please refer to Section 2 and Section 8 for a thorough description of the assumptions that went into our costs. The scope for “WTG Foundation Supply” includes the following costs:

The supply scope includes the following costs:

[Redacted text block]

#### *Key Drivers*

The key-drivers of the monopile cost include the following:

[Redacted text block]

## Transport, Installation & Commissioning

### *Scope & Assumptions*

Please refer to Section 2 for a thorough description of the assumptions that went into our costs. The scope for “WTG Foundation Installation & Commissioning” includes the following costs:

[Redacted text block containing multiple lines of blacked-out content]

### *Key Drivers*

Key drivers of the foundation transport, installation, and commissioning costs include:

[Redacted text block containing multiple lines of blacked-out content]



## Scour Protection

### *Scope & Assumptions*

Please refer to Section 2 for a thorough description of the assumptions that went into our costs. The scope for “Scour Protection” includes the following costs:

[Redacted]

### *Key Drivers*

[Redacted]

## Offshore Converter Station (OFCS) & OFCS Foundation

### Project Management & Supply

#### *Scope & Assumptions*

Please refer to Section 2.5 for a full description of project assumptions for the OFCS. This scope includes the following costs:

[Redacted]

[Redacted text block]

*Key drivers*

[Redacted text block]

Transport, Installation & Commissioning

*Scope & Assumptions*

Please refer to Section 2 for a full description of project assumptions for the OFCS. This scope includes the following costs:

[Redacted text block]

[Redacted text block]

*Key Drivers*

[Redacted text block]

## Inter-Array Cables

### Supply

#### *Scope & Assumptions*

Please refer to section 2 for a detailed description of the assumptions surrounding inter-array cable supply. The supply scope for the inter-array cables includes the following cost line items:

[Redacted]

#### *Key Drivers*

[Redacted]

### Transport, Installation, Termination & Testing

#### *Scope & Assumptions*

Please refer to Section 2 for a full description of project assumptions for Inter Array Cable Transport, Installation, Termination & Testing. This scope includes the following costs:

[Redacted]

### Key Drivers

[Redacted text block]

### Offshore Export Cables

#### Project Management & Supply

#### Scope & Assumptions

The supply of the export cable includes the following cost line items:

[Redacted text block]

### Key Drivers

[Redacted text block]

### Transportation & Installation

#### Scope & Assumptions

Transportation and Installation costing follows the methodology outlined in Section 2.5. This scope includes the following costs:

[Redacted text block]

[Redacted text block]

### Key Drivers

[Redacted text block]

### Onshore Export Cable

#### Scope & Assumptions

Please refer to Section 2 for a full description of project assumptions for Onshore Export Cable. This scope includes the following costs:

[Redacted text block]

### Key drivers

[Redacted text block]

[Redacted text block]

## Onshore Converter Station (ONCS)

### Detailed Design and Supply

#### *Scope & assumptions*

Depending on the offer capacity, the HVDC system costs are drawn from monopole or dual-monopole HVDC equipment quotes as received from multiple HVDC OEMs. The costs are also scaled by project nameplate capacity. The following items are covered:

[Redacted list of items]

### Construction, Installation and Commissioning – Onshore converter station

#### *Scope & assumptions*

As clarified by the BPU, the project assumes that Mid Atlantic Offshore Development (MAOD) is responsible for the land acquisition, site preparation (tree clearing, clearing, and grading with native soil, seeding, temporary fencing), and access roads. The costs related to these activities are not included in the project cost basis for the ONCS (see Section 2.4 for additional discussion).

The construction costs are drawn as average across three contractor quotes for the ONCS construction and include the following:

[Redacted list of construction items]

[REDACTED]

### Key Drivers

The key-drivers for the ONCS include the following:

[REDACTED]

### Other Capital Expenditures (Technical)

Other assumed technical capital expenditures (CAPEX) include the following:

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]



[Redacted]

### General Cost Estimation Assumptions

The project cost estimation structure is [Redacted]

[Redacted]

### Construction Duration

The construction duration was calculated [Redacted]

### Assumed Downtime (Weather, Restricted season, etc.)

The weather downtime for the project was calculated [Redacted]

## Volatility in Commodity Prices

The cost modeling uses [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]

[REDACTED]