Capital Allocation Model - Offshore Wind Park Samsoe DK

Annual balance of revenues and expenses (0-20 years)

From

Annual income of Windpark operator

Energy income incl. Danish support

7,765 MWh/a 504,725 €

Paid for annual cost & debt

• O&M
  - Service hours xy €

To agent

Question 4

Operator company employees

Spare parts supplier

Rest of DK

Rest of DK

Question 7

Financial payment

• Interest rate xy €

Annual rate of return xy €

Question 5

Insurance xy €

Taxes xy €

Bank

Owner of shares

Rest of DK

Rest of DK

Question 8

Insurance company

Fiscal authorities

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The Capital Allocation Model for Offshore Wind Park Samsoe details the investment breakdown:

- **Overall investment sum:** 33,091 million €
  - **Danish Energy Agency:** 0.982 million €
  - **Samsoe Owner Group:** 32,173 million €
- **10 turnkey wind turbines:** 30,693 million €
- **Planning of the project:** 1.3 million €
- **Project management:** 378,808 €
- **Feasibility study:** 0.982 million €
- **Authorisation:** 37,907 €

**Equipment & Supply**:
- **Samsoe:**
  - **Civil engineering:**
  - **Engineering:**
  - **State legislatures/community:**

**To agent**
- **Company XY**:
  - **Subcontracting**:
    - **Samsoe Energy Company**
    - **State legislatures/community**

**Question 1**
- **Subcontracting Company XY**

**Question 2 & 3**
- **Subcontracting Company XY**

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(1) the level of business activity (or output) generated: 7,765 MWh /a 
= 504,725 €/a

(2) the number of jobs created:
   a) Temporarily: Engineering, manufacturer (Quantified?)
   b) Permanent: Operator company, spare part supplier (Quantified?)

(3) Increased level of income for shareholder (Quantified?)

(4) tax revenues for Samsoe Community or DK (Quantified?)
The off-shore windfarm - signing of shares

Signing of shares went on over the last two phases:

- the municipality has invested in 5 turbines

- farmers and local firms in 3 turbines

- a local co-op has invested in 1 turbine

- the last turbine is organised in a co-op by an investing firm, outside Samsoe
Data for 1 turbine:
Price, app. 3.25 mill.
Nominal power, 2.3 MW
Production, 7,765 MWh/year
Net-income, 500,000 Q/year
Length, monopile, up to 48 meter
Weight, mono-pile, 340-400 tons
Weight, turbine, 267 tons
Height, turbine, 63 meter
Propel diameter, 82 meter
Total height, 104 meter
The planning, organising and establishing went over four phases:

- a pre-investigation involving three possible locations in 1998/99

- a detailed investigation on the, by the Danish Energy Agency, selected location, south of Samsoe, 1999-2001

- detailing of the project, invitation to tender, selection of turn-key project, 2001/2002

- the construction/erection period 2002-March 2003