Introduction

This representation is submitted to the Aberdeen City Local Development Plan Review by Locogen Ltd on behalf of Aberdeen City Council (Economic & Business Development).

It follows the format of the Main Issues Report Bids Form and contains supplementary supporting information where applicable.

Given the nature of the proposed development, it should be noted that not all of the 'sustainable development and design' questions are relevant.

Bids Form

1. Details of Proposer

Name: Aberdeen City Council (Economic & Business Development)
Address: c/o Locogen Ltd, 44 Constitution Street, Edinburgh, EH6 6RS
Telephone:
Email:

2. Details of Landowner

Name: Aberdeen City Council (Economic & Business Development)
Address: Aberdeen City Council, Business Hub 10, 2nd Floor South, Marischal College, Aberdeen, AB10 1AB

The Site and Proposal

3. What name would you like the site to be known as?

Land at Doonies Hill, north-east of Peterseat

Have you any information for the site on the internet?

No

4. Please provide a map showing the exact boundaries of the site you would like considered.

The provisional location of the proposed turbine(s) is indicated by the red triangle. The solid blue line denotes the extent of land at Peterseat deemed to be suitable for wind energy development in John Becker Ingenuire's study.

5. Please provide the National Grid reference of the site.
E396900, N804100

6. What is the current use of the site?
The site comprises grassed land sandwiched between the railway line and the coast.

Has there been any previous development on the site?
There have been no other developments on the site.

7. What do you propose using the site for?
It is proposed that the site be developed for one or more three-bladed wind turbines measuring up to 100m to tip height.

While a preferred turbine model has yet to be determined, preliminary visualisations have been prepared illustrating the likely view from St Fittick's Church, approximately 1km to the north. Visualisations for turbines measuring 74m and 92m to tip have therefore been provided along with this representation for comparison purposes.

Further detail is provided in the response to Q11 below.

8. If you are proposing housing on the site, please provide details of what you think would be appropriate, both in terms of the number of dwellings and their forms.
Not applicable.

9. It is likely that there will be a requirement for 25% of the housing within the development to be affordable. If applicable, are you considering more or less than this figure?
Not applicable.

10. If you are proposing business uses on the site, please provide details of what you would market the land for.
Not applicable.

11. If you are proposing uses other than housing or business, please provide as much detail as possible on what you propose.
Local authority development of renewable energy projects is often a response to a range of policy objectives including *inter alia* decreasing an organisation's carbon footprint, climate change drivers, asset utilisation and optimisation, and securing new sources of revenue generation.

Aberdeen City Council is at the forefront of public sector efforts to tackle climate change, promote energy efficiency and utilise low/zero carbon technologies across its estate portfolio. In this respect, the City Council's own Carbon Management Plan 2010-2015 commits it to achieving carbon emission reductions equal to 23% by 2015 and 42% by 2050 (using financial year 2008/09 as a baseline).

In addition to its sustainability targets and carbon management commitments, the City Council's Five Year Business Plan for the period 2012/13 to 2017/18 outlines a number of options based upon additional income generation opportunities and base cost reduction arising from energy efficiency measures. Within this context, Elected

Members recently approved a cumulative income generation target of £500,000 by 2017/18 from various sources including onshore wind energy generation opportunities utilising the City Council's own landholdings.

In this respect, the City Council commissioned John Becker Ingenuire in 2011 to undertake a wind scoping and visual impact study across its administrative boundary. Through the application of a comprehensive set of analysis criteria and appropriate exclusion zones, the John Becker report concludes that there is potential for wind energy development at *inter alia* Peterseat.

Locogen were subsequently appointed in late 2012 to provide consultancy support services to the City Council in relation to realising the wind energy opportunities identified in the 2011 study.

While further detailed studies are required, on the basis of an initial assessment of likely issues, there are not considered to be any insurmountable technical constraints or significant adverse environmental impacts (either individually or cumulatively) that would preclude wind energy development at the location suggested.

12. Will the proposed development be phased?

Not applicable.

13. Has the local community been given the opportunity to influence/partake in the development proposal?

No site-specific public engagement has been undertaken to date.

Prior to the submission of any future planning application, Locogen would arrange for a public exhibition to take place at a suitable venue within the local Community Council area. At this exhibition, all relevant material would be presented to the public including the proposed site layout, typical turbine specification, photomontages/wireframes from key viewpoints, and details of alternatives considered. Key staff would be in attendance to present the proposals and respond to any queries raised by attendees. Based on previous experience, Locogen would also prepare a questionnaire that attendees would be invited to complete. This questionnaire could also potentially be made available via the applicant's website to maximise opportunities for interested parties to comment.

<u>Sustainable Development & Design</u>

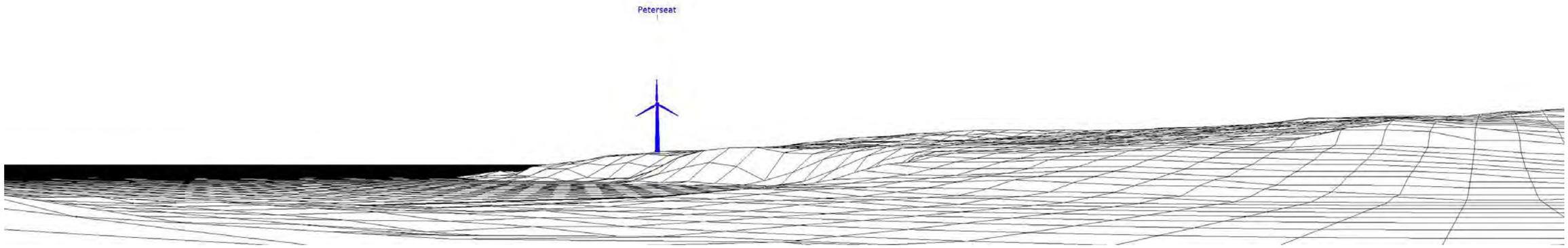
14. Have you applied principles of sustainable siting and design to your site?

Issue	Response
Exposure	On the basis of the desk-based study completed to date, wind speeds are expected to be acceptable and viable.
Aspect	Not applicable to the proposed development.
Slope	The site is relatively flat and no issues are anticipated in terms of gradient.
Flooding	The site is not at risk of flooding and its development as proposed will not increase the risk of flooding elsewhere.
Drainage	The site does not suffer from poor drainage or waterlogging.
Built & Cultural Heritage	There are no known archaeological features or remains within the site.

Issue	Response
	There are however a number of designated sites of cultural heritage interest within 5km of the site. While this will be assessed further, given the level of human activity and existing disturbance in the area, significant adverse impacts are not anticipated.
Nature Conservation	The coastline at this location forms part of a much larger local nature conservation designation. When compared to the scale of the overall designation however, the extent of habitat likely to be affected by the proposals is small. Given the site's coastal location and proximity to a number of other designated sites, there may be a requirement for bird survey work. At this time however, it is considered that any issues arising can be satisfactorily mitigated.
Landscape Features	Development of the site will not result in the loss of landscape features such as treebelts.
Landscape Fit	The site's coastal location and potential impacts on recreational users of the green space and core path networks are acknowledged. While further assessment is necessary, both individually and cumulatively, it is considered that a sensitively sited and designed wind energy development can be satisfactorily accommodated at this location.
Relationship to Existing Settlements	Not applicable to the proposed development.
Land Use Mix	Not applicable to the proposed development.
Accessibility	Not applicable to the proposed development.
Proximity to Services & Facilities	Not applicable to the proposed development.
Foot & Cycle Connections	Not applicable to the proposed development.
Proximity to Employment Opportunities	Not applicable to the proposed development.
Contamination	While the land to the opposite side of the railway line comprises landfill (now closed), there are no known contamination issues at the site itself.
Land Use Conflict	While further detailed assessments are necessary, on the basis of desk-based assessments to date, it is not considered that there will be any insurmountable land use conflict issues arising.
Physical Infrastructure	The site can be appropriately accessed and serviced. In particular, there are various electricity grid connection options available in the locality.

Date: 13 June 2013

Existing view from St. Fittick's Church



Computer generated wireframe showing proposed Enercon E48 turbine in blue

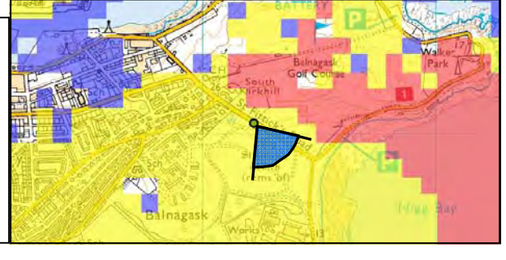
Photomontage showing proposed Enercon E48 development

Locogen Ltd, 44 Constitution St, Edinburgh, EH6 6RS
Tel:+44(0)131 624 8968;
Email: info@locogen.com
Company Number: SC370060

Project:	Peterseat
Drawing no:	PET001
Drawing by:	Franco Giovanetti
Approved by:	Ian McLean
OS Licence N°:	100050069

Viewpoint No:	VP01
Viewpoint Location:	E396220 N805045
Field of View:	80°
View direction:	145.3°
Dist to turbine:	1.148 km
Title:	St. Fittick's Church

Camera:	Nikon D60
Effective Focal Length:	16 mm
Viewing Distance:	23.8 cm
Elevation:	1.8 m
Date taken:	11/03/2013
Time taken:	17:16



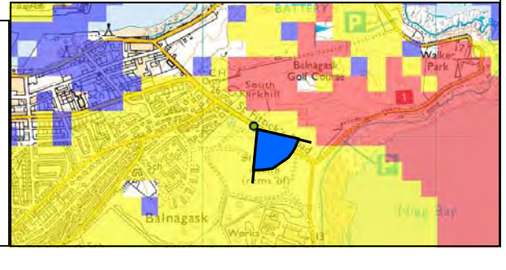
Photomontage showing proposed Enercon E48 development

Locogen Ltd, 44 Constitution St, Edinburgh, EH6 6RS
Tel:+44(0)131 624 8968;
Email: info@locogen.com
Company Number: SC370060

Project:	Peterseat
Drawing no:	PET002
Drawing by:	Franco Giovanetti
Approved by:	Ian McLean
OS Licence N°:	100050069

Viewpoint No:	VP01
Viewpoint Location:	E396220 N805045
Field of View:	45°
View direction:	145.3°
Dist to turbine:	1.148 km
Title:	St. Fittick's Church

Camera:	Nikon D60
Effective Focal Length:	16 mm
Viewing Distance:	43.8 cm
Elevation:	1.8 m
Date taken:	11/03/2013
Time taken:	17:16



Locogen Ltd, 44 Constitution St, Edinbur, EH6 6RS
Tel: +44 (0) 131 555 4745; Email: info@locogen.com
Company Number: SC370060; VAT Number: 983 3836 77

Project Description

Number of Turbine(s):	1
Turbine Model:	Enercon E48
Hub Height:	50.0m
Blade diameter:	48.0m
Total height to blade tip	74.0m
Turbine location:	396973 804178

Notes

This drawing shows the three-point Zone of Theoretical Visibility for the proposed Enercon E48 turbine at Peterseat out to 20km.

Radii: 10 and 20km

Legend

● Peterseat Turbine

Levels of theoretical visibility:

Blue: Only the blades are theoretically visible from these areas

Yellow: At least the nacelle and blades are theoretically visible in these areas

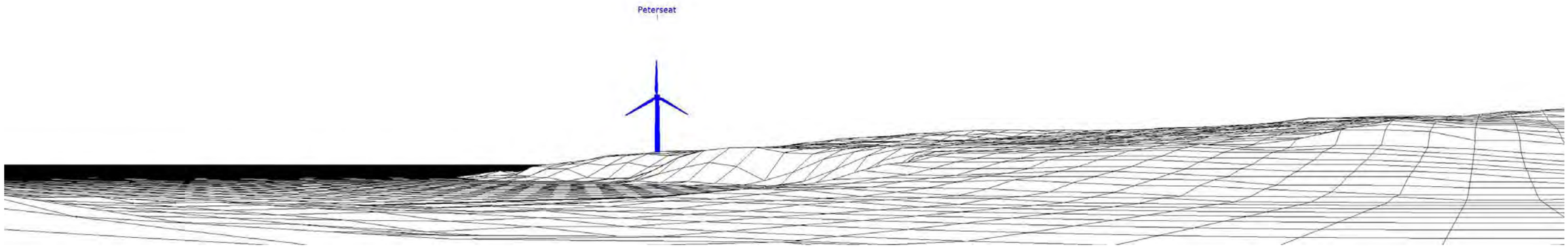
Red: The blades, nacelle and tower down to a point at least 1m AGL are theoretically visible in these areas

PROJECT:	**Peterseat**
DRAWING TITLE:	E48 20km ZTV
DRAWING NO:	PET003
DOCUMENT SIZE:	A3
SCALE:	1:140,000
DATE:	25/03/2013
DRAWING BY:	Franco Giovanetti
APPROVED BY:	Ian McLean

N

0 2 4 6 8 10 km

Existing view from St. Fittick's Church



Computer generated wireframe showing proposed Enercon E70 turbine in blue

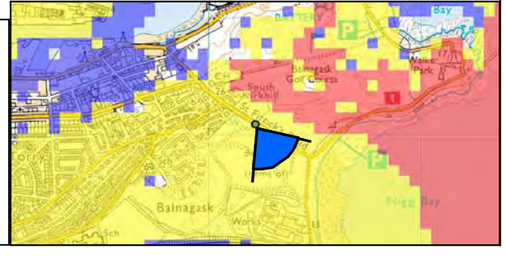
Photomontage showing proposed Enercon E70 development

Locogen Ltd, 44 Constitution St, Edinburgh, EH6 6RS
Tel:+44(0)131 624 8968;
Email: info@locogen.com
Company Number: SC370060

Project:	Peterseat
Drawing no:	PET004
Drawing by:	Franco Giovanetti
Approved by:	Ian McLean
OS Licence N°:	100050069

Viewpoint No:	VP01
Viewpoint Location:	E396220 N805045
Field of View:	80°
View direction:	145.3°
Dist to turbine:	1.148 km
Title:	St. Fittick's Church

Camera:	Nikon D60
Effective Focal Length:	16 mm
Viewing Distance:	23.8 cm
Elevation:	1.8 m
Date taken:	11/03/2013
Time taken:	17:16



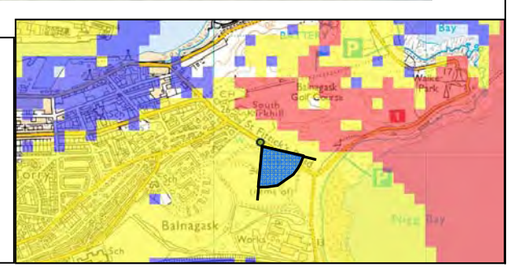
Photomontage showing proposed Enercon E70 development

Locogen Ltd, 44 Constitution St, Edinburgh, EH6 6RS
Tel:+44(0)131 624 8968;
Email: info@locogen.com
Company Number: SC370060

Project:	Peterseat
Drawing no:	PET005
Drawing by:	Franco Giovanetti
Approved by:	Ian McLean
OS Licence N°:	100050069

Viewpoint No:	VP01
Viewpoint Location:	E396220 N805045
Field of View:	45°
View direction:	145.3°
Dist to turbine:	1.148 km
Title:	St. Fittick's Church

Camera:	Nikon D60
Effective Focal Length:	16 mm
Viewing Distance:	23.8 cm
Elevation:	1.8 m
Date taken:	11/03/2013
Time taken:	17:16



Locogen Ltd, 44 Constitution St, Edinbur, EH6 6RS
Tel: +44 (0) 131 555 4745; Email: info@locogen.com
Company Number: SC370060; VAT Number: 983 3836 77

Project Description

Number of Turbine(s):	1
Turbine Model:	Enercon E70
Hub Height:	57.0m
Blade diameter:	70.5m
Total height to blade tip	92.3m
Turbine location:	396973 804178

Notes

This drawing shows the three-point Zone of Theoretical Visibility for the proposed Enercon E70 turbine at Peterseat out to 20km.

Radii: 10 and 20km

Legend

● Peterseat Turbine

Levels of theoretical visibility:

Blue: Only the blades are theoretically visible from these areas

Yellow: At least the nacelle and blades are theoretically visible in these areas

Red: The blades, nacelle and tower down to a point at least 1m AGL are theoretically visible in these areas

PROJECT:	**Peterseat**
DRAWING TITLE:	E70 20km ZTV
DRAWING NO:	PET006
DOCUMENT SIZE:	A3
SCALE:	1:140,000
DATE:	25/03/2013
DRAWING BY:	Franco Giovanetti
APPROVED BY:	Ian McLean

N

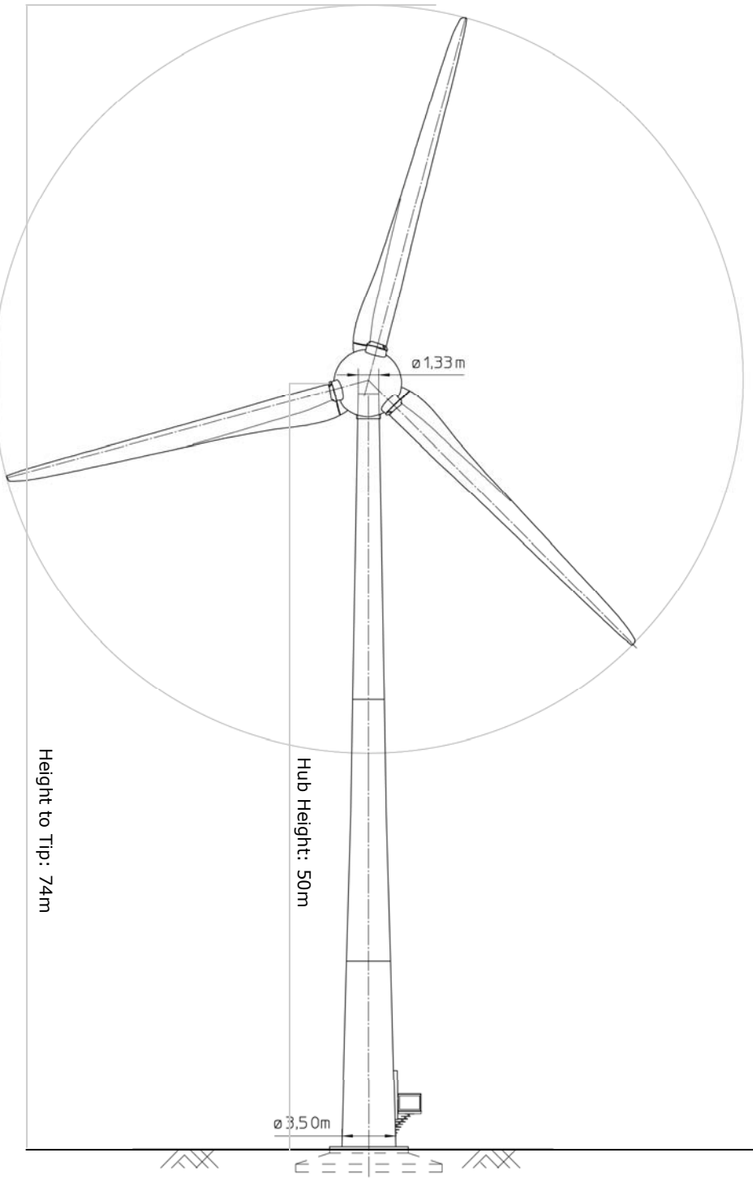
0 2 4 6 8 10 km

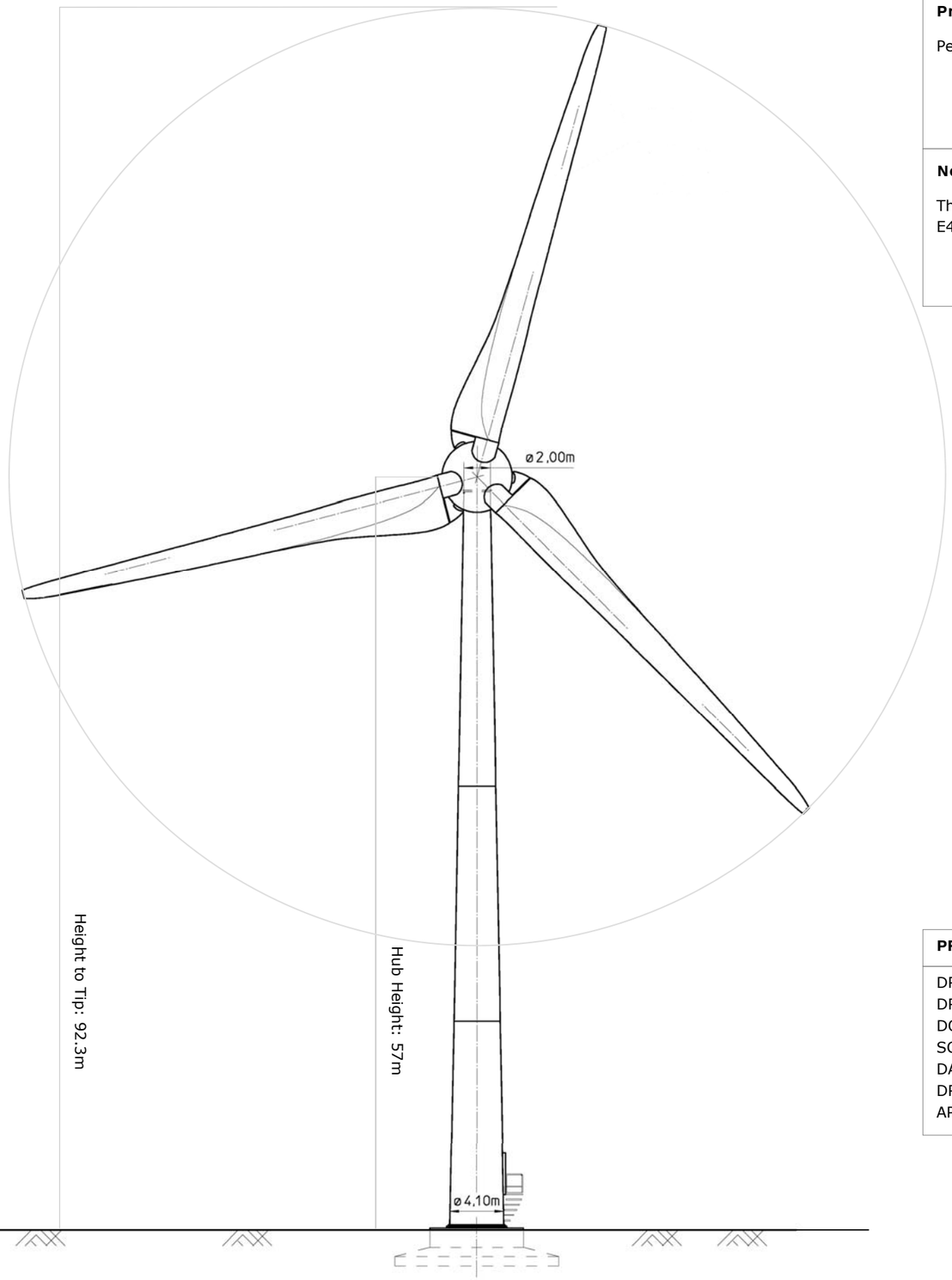
Enercon E48

Hub Height:	50.0m
Rotor Diameter:	48.0m
Height to Tip:	74.0m
Blade Swept Area:	1,809m^2

Enercon E70

Hub Height:	57.0m
Rotor Diameter:	70.5m
Height to Tip:	92.3m
Blade Swept Area:	3,903m^2





Locogen Ltd, 44 Constitution St, Edinbur, EH6 6RS
Tel: +44 (0) 131 555 4745; Email: info@locogen.com
Company Number: SC370060; VAT Number: 983 3836 77

Project Description

Peterseat—comparative turbine elevations

Notes

This drawing displays the dimensions and elevations of the Enercon E48 and E70 models.

PROJECT:	**Peterseat**
DRAWING TITLE:	Turbine Elevation Comparisons
DRAWING NO:	PET007
DOCUMENT SIZE:	A3
SCALE:	1:400
DATE:	25/03/2013
DRAWING BY:	Franco Giovanetti
APPROVED BY:	Ian McLean