









ANGUS COUNCIL

TOWN AND COUNTRY PLANNING (SCOTLAND) ACT 1997 (AS AMENDED) TOWN AND COUNTRY PLANNING (DEVELOPMENT MANAGEMENT PROCEDURE) (SCOTLAND) REGULATIONS 2013



PLANNING PERMISSION REFUSAL REFERENCE 14/00827/FULL

To Finavon Hill Estate & Kilmac Construction c/o Green Cat Renewables Ltd FAO Graham Donnachie Stobo House Midlothian Innovation Centre Roslin EH25 9RE

With reference to your application dated 7 October 2014 for planning permission under the above mentioned Acts and Regulations for the following development, viz.:-

Erection of a Wind Turbine of 40 metres to Hub Height and 67m to Blade Tip and Ancillary Development at Field 450M South Of Finavon House Finavon Forfar for Finavon Hill Estate & Kilmac Construction

The Angus Council in exercise of their powers under the above mentioned Acts and Regulations hereby **Refuse Planning Permission (Delegated Decision)** for the said development in accordance with the particulars given in the application and plans docqueted as relative hereto in paper or identified as refused on the Public Access portal.

The reasons for the Council's decision are:-

1 That the proposal is contrary to Policy ER5(a) of the Angus Local Plan Review (2009) because the site selected would not be capable of absorbing the proposed development to ensure that it fits into the landscape; and is contrary to Policy ER34(b) of the Angus Local Plan Review (2009) because the proposed turbine would result in unacceptable adverse landscape impacts having regard to landscape character, setting within the immediate and wider landscape, and sensitive viewpoints.

Amendments:

1 This application for planning permission has not been subject of variation.

Dated this 11 March 2015

Iain Mitchell - Service Manager Angus Council Communities Planning County Buildings Market Street FORFAR DD8 3LG

FINAVON HILL ESTATE WIND TURBINE

Supporting Statement

Mr. J Sanderson (Finavon Estate) & Construction Partner Kilmac Construction Ltd

September 2014



Finavon Hill Estate Wind Turbine

Supporting Statement Prepared for:

Mr. J Sanderson (Finavon Hill Estate) & Construction Partner Kilmac Construction Ltd



Glendevon House Old Gallows Road Western Edge, Perth PH1 1QE Tel: 01738 620350

Prepared by:

Green Cat Renewables Ltd



Edinburgh Office Midlothian Innovation Centre Roslin, EH25 9RE Tel: 0131 440 6155

Checked By: Graham Donnachie	Date: 05/09/2014
Approved By: Derek Ross	Date: 04/09/2014

1 Introduction

Mr Jeff Sanderson of Finavon Hill Estate and his construction partner Kilmac Construction, have been diligent in their assessment and promotion of the site since August 2010, making significant financial investment in studies, reports and community consultation to the satisfaction of the Planning Authority, only to have been caught up in two separate changes in landscape capacity assessment guidance and policy. This change in guidance and policy was a significant factor in the determination and outcome of the earlier investment; however this 500kW single turbine project perfectly balances the key factors including all environmental impacts, the location of the site and the economic and commercial viability of the scheme.

About the Applicants

The Finavon Hill Estate is owned and operated by Jeffrey John Sanderson, who has been a resident of Angus for over 38 years. When Mr Sanderson purchased the estate in 1993 there was no residential, sporting or business activity on site. Following a significant financial and management investment, the Estate has seen a resurgence with the construction of seven houses and the development of a successful shooting business running alongside the farming activity.

Mr Sanderson has been looking at the promotion of a wind project since 2010 to help secure the future of the estate and to permit further investment in farming and in the construction of the consented "sporting lodge" to meet expansion requirements. This will also enable the employment of additional staff to support and permit the part retirement of Mr Sanderson in the near future as he reaches retirement age. As a result of the investment and ongoing development, the Finavon Estate is now a thriving community continuing to attract inward investment from sporting parties, in particular from London, Ireland and as far away as the United States of America. In mid-2010, Mr Sanderson identified Kilmac as a suitable local company to partner with him on the projects promotion.

The Kilmac Group is a Perth-based privately owned Construction Company formed in 2004, who diversified into the Renewables market and specialise in the promotion, construction and operation of onshore wind projects. Kilmac employ over 100 people predominately from within the Tayside area and see the Tayside area as their base and home. Almost 20% of their business now comes from the renewables sector and over the next 3 years they see it becoming as much as 40%. Kilmac Construction has been instrumental in encouraging and securing apprenticeships across Tayside and plan on continuing this trend into renewable energy developments as and when they come on stream.

The Applicant believes that this development represents an excellent opportunity for local contractors and suppliers to benefit from the proposed development. The Kilmac Group, who has a strong track record of working with local businesses, will lead the construction and installation stages. This will support the ambition to retain as much economic value locally as possible. Letters from local businesses are attached in support.

Local Economic Benefits

For a detailed assessment of the socio-economic development will bring to the local area and Angus, please see the accompanying report undertaken be Ekos Ltd, an independent economic and social research company. This report analyses the key economic, social and catalytic impacts predicted to be generated as a result of the development and should be considered as a key planning consideration.

See **Appendix 2** of this document for the Socioeconomic Logic Model which clearly demonstrates how the development stands to benefit the local area and businesses.

2 The Development

The Scottish Government is supportive of this scale of renewable projects, particularly where these are locally owned and will support local businesses. The Scottish Government policy is clear that it looks to support renewable development and meet the ambitious targets set out in the 2020 Routemap for Renewable Energy in Scotland. The Finavon Hill Estate development will contribute to a significant number of Scottish Government targets, particularly the aim to deliver 500MW of locally owned developments by 2020.

The proposed wind energy development is located on rough agricultural land at Finavon Hill, approximately 5km north-east of Forfar in Angus, as shown in **Figure 1**.

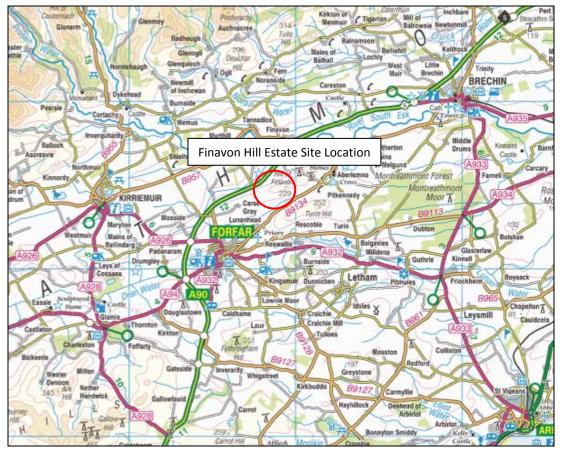


Figure 1 – Proposed development location

In terms of Local Policy, Angus Council are supportive of renewable energy development where they are considered to be environmentally acceptable and they contribute to the development of a low carbon economy. It is considered that the potential local benefits, effectively resulting from the creation of a viable local business diversification, will be greater than any negative environmental effects.

Development Background, Challenges and Changes

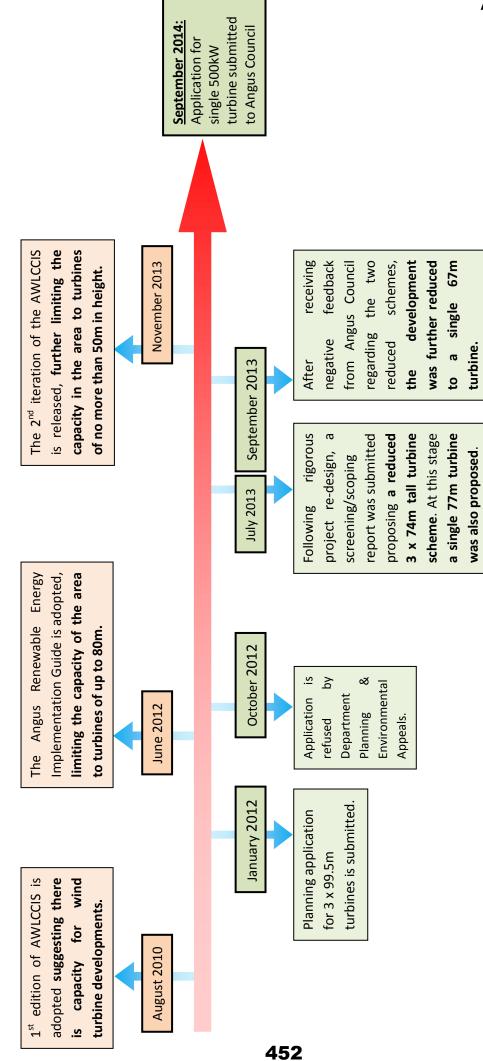
A key consideration of this application must be that <u>over the lifetime of the development</u> <u>there have been two distinct changes in landscape capacity recommendations</u> through various guidance documents. The developer has been chasing compliance with changing design guidance since the projects conception in August 2010.

- August 2010: Prior to submission of the original application for three 99.5m turbines, the 1st edition of the Angus Windfarms Landscape Capacity and Cumulative Impact Study (AWLCCIS) suggested that there was capacity in the landscape for a development of that scale. Full Environmental Impact Assessment (EIA) work was instructed in accordance with this guidance.
- 2. The application was submitted in December 2011 and during the course of this application, the Renewable Energy Implementation Guide (REIG) was adopted (June 12) which suggested that capacity of the landscape should be limited to 80m. This application was subsequently refused and the design process for a revised submission was progressed.
- 3. The applicant then initiated further screening in August 2013 and during the screening stages of the revised development, Angus Council indicated that a revised AWLCCIS was imminent. This document, published in November 2013, suggests that wind developments should be further limited to 50m in height.

All of these documents remain material considerations for the planning decision.

Delivering an economical and viable commercial development carries endless difficulties and challenges that require thorough assessment and management. This process is not made easier by sporadically changing guidance. It is appreciated that over time through further research and consideration the guidance can be amended and updated, however, in this case, it is considered particularly unusual and unreasonable to have such significant changes in guidance in such a short period of time. The applicant finds it difficult to comprehend and decipher why the advice given in these guidance documents keeps changing when the cumulative picture or the landscape has remained unchanged.

Despite the varying guidance, the applicant has sought to achieve an acceptable and compliant development whilst ensuring that it is also a viable and economical development. The timeline included demonstrates how the applicant has made alterations to the proposed scheme as a result of the change in guidance.



Timeline: Development refinements as a result of guidance changes

The feasibility and operational efficiency of developments is an important aspect of the Angus Local Plan Review (ALPR), which states "applicants should demonstrate that proposals are technically and financially feasible to prevent other deliverable proposals being blighted in the future by undeveloped consents" and "all forms of renewable energy development will be supported in principle [where] the siting and appearance of apparatus have been chosen to minimize the impact on amenity, while respecting operational efficiency".

The revised development has reached the point in which any further reductions in elevation or turbine size would have a dramatic impact on the efficiency of the wind turbine and the viability of the development.

Final Design Selection

The development has been completely re-designed in order to become compliant with the concerns of the Council and the Reporter from the original application. It is considered that the revised design entirely addresses the key concerns that prevented consent of the original scheme.

A number of design refinements were explored as a result of the screening feedback received from Angus Council. It was determined that the turbine should be relocated even further down the hill and further reduced in height. In regard to the Reporters comments, the final design iteration was significantly reduced from the original application as:

- a) Reducing the capacity of the development from 6.9MW (three 2.3MW turbines) to a single 500kW turbine;
- b) Relocating the turbine further north, lowering the altitude, so the turbine no longer sits on the summit of Hill of Finavon and therefore is at a lower elevation:
 - Revised proposal located at an elevation of approximately 187m Above Ordnance Datum (AOD), in a ~35m drop in base elevation from the turbine with the highest elevation from the original application (222m AOD).
- c) Significantly reducing the overall height of the turbine by 33m, from 99.5m to tip to 67m to tip and a reduction in elevation by 35m delivers an overall reduction in height of 67.5m. This clearly demonstrates the significance and severity of the reductions made to the development.

Table 1 indicates the key design iterations that the development has looked to progress through the project lifetime, demonstrating the significant reduction from the original planning application and the efforts of the applicant to work with Angus Council.

Design Refinement	No. of Turbines	Capacity	Height of Turbine(s)	Turbine Height reduction	Ground Level (AOD)*	Ground level reduction	Overall Reduction in Height
Original Application	3	6.9MW	99.5m	-	222m	-	-

Table 1 – Key Development Design Iterations

Proposed Scoping Option	3	2.4MW	74m	-25.5m	211m	-11m	-36.5m
Alternative Proposed Scoping Opinion	1	500kW	77m	-22.5m	187m	-35m	-57.5m
Final Consideration	1	500kW	67m	-32.5m	187m	-35m	-67.5m

With this design selection, the development reaches the point in which any further reductions in elevation or turbine size would have a dramatic impact on the efficiency of the wind turbine and the viability of the development.

This continual change in policy has been enormously frustrating for the applicant as they are trying to develop a viable and feasible scheme that will bring renewable energy and economic opportunity to the local area. **The applicant does not feel that it has been fair or reasonable to implement material changes in guidance and policy in a short period of time.** There has been a substantial level of investment in this development, and therefore the consequences of frequent alterations in the guidance felt by viable developments, such as that at the Finavon Hill Estate, should be appreciated in the determination process. The Applicant contends that this, in combination with the reduction of turbine height, has significantly reduced the impact on the surrounding landscape and the nearest residential properties.

The effects of the turbine height reduction and relocation further down the hillside are demonstrated by the elevation comparison in **Figure 2**. This figure shows the height and elevation of the original three turbines in comparison to the proposed single turbine.

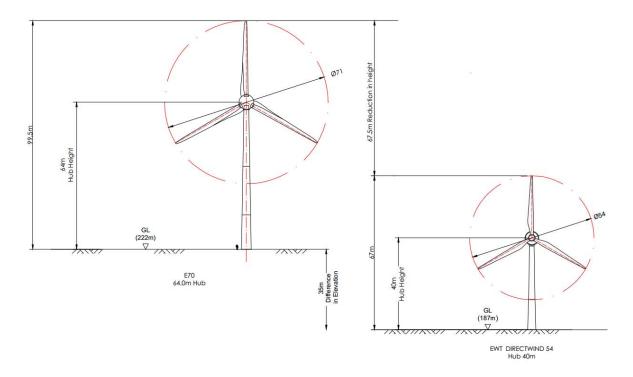


Figure 2 – Elevation Comparison of Original 99.5m application to revised 67m application sitting lower down hillside by -35m.

Figure 3 delivers a photo representation of the project comparison of original 99.5m application to revised 67m application sitting lower down hillside by -35m demonstrating the significant reductions in scale that have been implemented from one of the closest viewpoints to the development, taken from the A90.

Finavon Hill Estate Wind Turbine



Figure 3 - Viewpoint from West Mains of Finavon

Consultation with Angus Council

In response to the negative scoping comments received and in light of the publication of the new AWLCCIS, two scoping meetings were held with Angus Council to discuss the application.

During these meetings the appropriateness of the use of this guidance was discussed at length given the timing in relation to this application. It was agreed that the Council's decision would be based upon the sum of all the parts, taking into account all material considerations including previous and current guidance documentation.

Minutes of these meetings can be found in the Appendices of the full Environmental Report.

The Environmental Assessments

The planning application has been submitted along with a rigorous assessment of all potential environmental impacts. The Environmental Report (ER) addresses the concerns and refusal reasons from the previous application and discusses how the revised proposal is compliant with all the appropriate national and local policies (see **Section 3** of the ER).

It was found that the proposed single turbine would not have significant visual impact on the surrounding landscape or closest residents (**Section 7**), significant noise impacts (**Section 8**) and it would not have adverse impact of cultural heritage features in the area (**Section 9**). The redesigning process of the development set out to ensure there would be no chance of any significant environmental impacts.

The Environmental Report aims to demonstrate that the proposal is appropriate in terms of its size, scale and location and that it can be accommodated without significant environmental adverse impact.

Visible Developments from the A90

Other developments that are in operation and visible from the A90 in Angus are shown in **Figures 4**, **5** and **6**. The viewpoints from West Mains of Finavon (**Figure 3**) and Bogindollo (**Figure 9**) show how the proposed scheme would appear from the A90. The photomontages of the original and current proposal are shown as a comparison against those already consented/built to highlight the appropriateness of site size, scale and location.

Operating Developments



Figure 4 – Turbine near Stracathro



Figure 5 – Turbines south of Forfar



Figure 6 – Turbines (under construction) near Memus

Finavon Hill Estate Comparisons





Figure 8 - Viewpoint from the B9134 at Howmuir



Figure 9 - Viewpoint from Bogindollo



Figure 10 - Viewpoint from Forfar

3 Summary

The magnitude of the changes adopted by the Applicant must be given due weight and consideration, even if the proposal exceeds the blanket suggestion of 50m across this particular Landscape Character Area. The Applicant believes that each site should be judged on its own merits as opposed to the broad brush approach of the Landscape Capacity Study. The Applicant is also of the belief that the legacy of the development cannot be ignored during the decision making process, particularly given the history and severity of design evolvement including the willingness of the Applicant to adhere to the guidance revisions wherever possible.

The Finavon ridgeline is over 14km in length and the proposed turbine has a horizontal extent of 54m. Therefore, the turbine would occupy less than 1% of the Finavon ridgeline, having an insignificant impact on the horizontal extent of the ridgeline

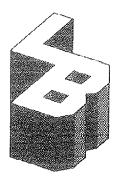
The turbine project will help to safeguard the existing activity at Finavon Estate and encourage the additional investment and upgrade works at the Estate. Small businesses, especially in rural areas, bring much needed income into the area and create local employment for local people and the construction of a single turbine at Finavon will make a vital contribution to the income of Finavon Hill Estate and underpin business at a local level for the future.

It is considered that the potential local benefits, effectively resulting from the creation of a viable local business diversification, will be greater than any negative environmental effects.

It is therefore the opinion of the applicant that this development should be supported by Angus Council as the application represents an appropriate and fitting development for its location, will significantly contribute to the estate and local area and will have an insignificant environmental and visual impact.

The Applicant contends that all issues raised by the Scottish Ministers Reporter and Angus Council have been addressed by the revised and significantly reduced development.

Appendix 1: Supporting Statements from Local Business



LAIRD BROTHERS (FORFAR) 181.

LUNACRETE DENSE CONCRETE BLOCKS

CONCRETE BRICK READY MIX CONCRETE

www.lairdbros.co.uk

LUNANHEAD. FORFAR. DD8 3NQ.TEL. 01307 466577. FAX 01307 468642.

21.7.14

Angus Council Angus House Orchardbank Business Park Forfar DD8 1AX

Dear Sir,

We believe that the proposed Single Turbine on Finavon Hill Estate will provide a boost to the local economy by supporting businesses in Angus.

We are therefore writing to express our hope that, when reviewing the application from Finavon Hill Estate that Angus Council will consider the benefits that this project would bring to the local area and grant planning permission for the Finavon Hill Estate single turbine.

Yours Sincerely



Production Manager



READYMIX CONCRETE



Lunanhead, Forfar, Angus DD8 3NQ Telephone: 01307 466577 Fax: 01307 468642

21.7.14

Angus Council Angus House Orchardbank Business Park Forfar DD8 1AX

Dear Sir,

We believe that the proposed Single Turbine on Finavon Hill Estate will provide a boost to the local economy by supporting businesses in Angus.

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Yours Sincerely

John Laird

Sales Manager





John Nixon Ltd Longtown Steet Dundee DD4 8LF

> Angus House Angus Council Orchardbank Business Park Forfar DD8 1AX Monday, 28 July 2014

Dear Sir,

John Nixon Ltd wish to express support for the Finavon Estate Wind Farm and believe that the local area would stand to benefit greatly from the project.

We also feel that the supply chain opportunities would boost local businesses in the immediate area and also create benefits in the wider region.

Consequently we are writing to reiterate the support in this area for the project.



Registered Office: City West Business Park, Scotswood Road, Newcastle upon Tyne, NE4 7DF Registered in England No. 921639. Nixon Hire is a trading name of John Nixon Limited Tel: 0844 3722210 Fax: 0191 2986750



W.F.BARKER LTD JOINERS & BUILDING CONTRACTORS

Seanbhothan Chapel Street Forfar DD82AB Tel (01307) 461225 Mobile 07880793123 Registered in Scotland: 260115 V.A.T Registration No. 356 1237 63

To whom it may concern

I have known Finavon Hill Estate since its inception in 1993 and its owner Jeff Sanderson since the late seventies when he joined Reekie to develop the manufacturing facility. I set up my own Joinery business in 1981 and built many facilities for Reekie as Mr Sanderson developed the business over the years. This work enabled me to employ my first journeyman and subsequently several others including apprentices as we secured hundreds of thousands of pounds worth of business over these years. Over the last 20 years at Finavon Estate we have built or rebuilt 3 houses and other projects totalling over six hundred thousand pounds. We are currently on the short list to build the proposed new lodge with a contract value between three and four hundred thousand pounds which I believe is on hold subject to the windmill project being approved. Jeff Sanderson has been a supporter of small start-up businesses in Angus and Tayside for many years some of which have gone on to be very successful medium size companies like my mine. Therefore for the very obvious business reasons I give this application my full support. Far less an obvious reason is Jeff will be 68 this year and the assured income from the windmill project will allow him to employ and train up a successor to guarantee Finavon Hill Estate continues developing as a going concern for the future.

Yours faithfully

William F Barker

William Clark (Barry) Ltd. Cotside Quarry Barry Angus DD7 7RR

Date: 15/08/14

Angus Council Angus House Orchardbank Business Park Forfar DD8 1AX

Dear Sir,

We believe that the proposed Single Turbine on Finavon Hill Estate will provide a boost to the local economy by supporting businesses in Angus.

We are therefore writing to express our hope that, when reviewing the application from Finavon Hill Estate that Angus Council will consider the benefits that this project would bring to the local area and grant planning permission for the Finavon Hill Estate single turbine.

Yours Sincerely

Archie Clark

Managing Director

014 Date:

Angus Council Angus House Orchardbank Business Park Forfar DD8 1AX

Dear Sir,

We believe that the proposed Single Turbine on Finavon Hill Estate will provide a boost to the local economy by supporting businesses in Angus.

We are therefore writing to express our hope that, when reviewing the application from Finavon Hill Estate that Angus Council will consider the benefits that this project would bring to the local area and grant planning permission for the Finavon Hill Estate single turbine.

Yours Sincerely	
-	
FOR ON BEHALF OF	
BLAIR CONTRACTORS	
TAYSIDE LIMITED	-
97 FINDOWRIE STREET	
TUNPEE OPH 9NK.	,

I & E Crichton Bogindollo Farm Finavon Forfar Angus DD8 3PL Tel: 01307 850202 Mobile: 07801 418918

20/03/2014

Wind Turbine at Finavon Hill Estate

To whom it may concern,

I feel that the proposed siting of a turbine at Finavon Hill would be of benefit to my business at Bogindollo Farm.

Over the past seven years a relationship with Finavon Hill has been forged which delivers benefits to both sides. This has allowed the estate to grow further in terms of their sporting enterprise whilst granting me access to a considerable area of land.

I believe, through discussing the matter with Finavon Hill Estate, that this turbine will help increase the chances of our relationship surviving. The generation of a new income stream will allow further expansion of the estate and succession planning to be carried out without jeopardising my business.

This is extremely important to me. Since starting with the estate I have had more confidence to invest in both more modern machinery and farm infrastructure. This has been the result of increased scale and business output.

I have also been able to take on one full time employee and one harvest staff member. This was not justifiable before I became involved with Finavon Hill Estate.

If a wind turbine at Finavon Hill Estate will help maintain my business involvement and structure I hope you will give it serious consideration.

Yours truly,

Euan Crichton

AC181



FINAVON HOTEL, BY FORFAR, ANGUS DD8 3QD Tel: 01307 850234 Fax: 01307 850435 www.finavonhotel.co.uk Email: mail@finavonhotel.co.uk

11 March 2014

Dear Sir/Madam

Re: J Sanderson Wind Turbine Application at Finavon Hill

I would like to add my support to the Wind Farm Application by Mr J Sanderson for Wind Turbines at Finavon Hill.

Being the owner of this small business since 1995, I fully appreciate and understand how difficult it is to maintain profitability and sustainability in this economic climate. Small businesses, especially in rural areas, bring much needed income into the area and create employment for local people.

My business is a typical example of this. Throughout the shooting season $(1^{st}$ November -31^{st} January) we serve approximately 250-275 lunches to shooting clients from Finavon Hill. In addition to this, we also serve breakfast to people travelling to the shoots and provide overnight accommodation for shooting guests. This income is extremely important and beneficial to us in what is traditionally a quiet trading period.

I think it is vitally important that all businesses, whether large or small, find ways to maintain profitability and more importantly long term sustainability otherwise, in my opinion, they will not survive.

This, presumably, is what Mr Sanderson is trying to achieve.

Yours Faithfully

David Howatson Owner

AC181

Milton of Finavon House By FORFAR Angus DD8 3PY

3rd March 2014

TO WHOM IT MAY CONCERN

Finavon Hill Wind Turbine Proposal

I am writing to support the application by Finavon Hill Estate for a wind turbine to be located on Finavon Hill. The basis of my support is the socio-economic and environmental effects of a new sustainable revenue stream at Finavon.

As owner and manager of the Finavon Castle Water (FCW) salmon and sea trout recreational fishery business, I value the close cooperation in income generation and environmental and wildlife management, between Finavon Hill Estate and FCW over the last 15 years. The result is that the two businesses have established Finavon as a destination and hub for quality country sports. The reputation of this tourist hub continues to grow.

In terms of employment, the two businesses provide full-time and seasonal work for up to 50 local people, as well as income into the local community. Together they attract over 300 tourists to the area annually, many of whom are high income earners.

An important social aspect of driven game bird shooting is the opportunities it provides for beaters, pickers-up and administrative staff during the winter months. A typical day on Finavon Hill, of which there are twenty or more during the winter, is the employment and social interaction it provides for up to 50 local people of all ages, some of whom have no other regular social contact. Finavon Hill shoot also provides these people with an important contribution to their household incomes.

The construction of a single wind turbine at Finavon Hill will make a vital financial contribution to the income of Finavon Hill Estate. That income will underpin the estate business and ensure that, even in times of economic hardship or adverse natural conditions, there are sufficient resources to ensure that the business remains viable. From the viewpoint of a neighbour, I applaud the outstanding improvements to habitats and wildlife achieved by Finavon Hill Estate.

On that basis, and taking into account the other benefits to the locality provided by the Estate, I fully support the application for permission to erect a single wind turbine at Finavon.

Yours sincerely

A.P.H.Andrews Finavon Castle Water www.finavoncastlefishing.co.uk Mobile: 07748 634 658 Date:18/8/14

Angus Council Angus House Orchardbank Business Park Forfar DD8 1AX

Dear Sir,

Finavon Hill Estate Single Turbine proposal

We are writing to inform you that we fully support Finavon Hill Estate's application for a single wind turbine at Finavon Estate, Angus and believe that the project could provide a boost to the local economy by supporting businesses in Angus.

We wish to express our hope that the Angus Council will consider the benefits that this project would bring to the local economy when reviewing any decision.

A single turbine at Finavon Hill Estate would offer much-needed opportunities for local businesses to be part of the growing renewable energy industry.

"I support Finavon Estate's application for a wind farm at Finavon Estate, Angus. The project will bring a substantial boost to the local economy and will bring benefits for local community and businesses."

"I feel it is a good location for a single turbine to make use of wind which is a free resource. The Finavon Hill project will bring a much needed boost to local economy."

"I have examined the plans and strongly support the planning application which would maximise the use of local organisations like ours to develop a local supply chain."

We the undersigned support Finavon Wind farm project and hope that Angus Council approves the application.

Yours faithfully

Douglas Smith GAP Group Limited.

AC181

Angus Council Angus House Orchardbank Business Park Forfar DD8 1AX Monday, 28 July 2014

Dear Sir,

D Geddes (Contractors) Ltd wish to express support for the Finavon Estate Wind Farm and believe that the local area would stand to benefit greatly from the project.

We also feel that the supply chain opportunities would boost local businesses in the immediate area and also create benefits in the wider region.

Consequently we are writing to reiterate the support in this area for the project.

Yours sincerely

Scott Gormley

-

01382448601

To: 901738620267



81

9e:2/2

OUNDEE DRANCH Mid Craigie Road, Dundee. DD4 7RH TEL 01362 448600 FAX 01382 448601 EMALL dee0121@keyline.co.uk www.keyline.co.uk

Date:18th August 2014

Angus Council Angus House Orchardbank Business Park Forfar DD8 1AX

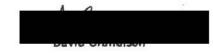
Dear Sir,

I David Grandison of Keyline Bullders Merchants wish to express support for the Finavon Estate Wind Farm and believe that the local area would stand to benefit greatly from the project.

We also feel that the supply chain opportunities would boost local businesses in the immediate area and also create benefits in the wider region.

Consequently we are writing to reiterate the support in this area for the project.

Yours sincerely,



Regional Sales Manager - Scotland North Keyline Builders Merchants Contract Merchanting Division

Dunkeld Road, Perth. PH1 3AA

M 07712 878 265

E david.grandison@keyline.co.uk

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Koylind Bulklers Marchants Ltd. Registered Office: Southbank House, 1 Strathletvin Place, Kirkinlikoch, Glasgow, 656 1XH. Registered in Scotlang No. 42425. The Proceed Conder Charliv Is a charliv reuisived in England and Wales (1005541) and In Scotland (SC039332)



GRAVEL HILL WAY · DOVERCOURT · HARWICH · ESSEX · CO12 4XN Telephone: (01255) 240420 & 506855 Telephone (01255) 551544 Fax: (01255) 551565 *VAT No. 4660903 42*

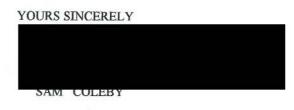
19 TH APRIL 2014

TO WHOM IT MAY CONCERN.

WE HAVE TRAVELLED UP FROM THE LONDON AREA FOR MANY YEARS TO STAY IN ANGUS AND SHOOT AT FINAVON HILL ESTATE. SEVERAL OF US COME UP WITH FAMILY AFTER THE SHOOTING SEASON USUALLY IN THE LATE SPRING TO STAY IN ANGUS AND TOUR THE AREA AS IT IS SUCH A NICE WELCOMING PLACE TO BE AND ALWAYS CALL IN TO SEE JEFF, CHICK AND BRIAN.

JEFF KEEPS US UP TO DATE WITH WHAT IS GOING ON AT FINAVON AS THERE ARE ALLWAYS NEW INVESTMENTS AND DEVELOPMENTS OCCURING. IN PARTICULAR THE WINDMILL APPLICATION WHICH WE FULLY SUPPORT AS IT SHOULD GENERATE A GUARANTEED INCOME BASE TO GIVE STABILITY TO FUNDING FOR THE CONTINUING DEVELOPMENT OF THE BUSINESS AND ITS STAFF REQUIREMENTS.

WE HAVE WITNESSED THE INCREDIBLE EXPANSION OF FINAVON HILL ESTATE AND ITS FACILITIES OVER THE YEARS FROM WHAT WAS A ROUGH SHOOT INTO A NOW NATIONALLY RECOGNISED QUALITY DRIVEN DAY SHOOTING ESTATE. IT'S A CREDIT TO ANGUS AND A LOVELY PLACE TO VISIT.



FOR THE LONDON SYNDICATE



TO WHOM IT MAY CONCERN

Unit 8, Station Place Forfar, DD8 3TB Tel/Fax: 01307 467959 Mobile: 07850 755532



VAT Reg. No. 724 2164 60

Office: 3 Findlay's Land Forfar DD8 3EU

Date: 21 May 2014

I have known Jeff Sanderson for around 25 years. In 1999 I started up my current business and shortly afterwards became a supplier to Finavon Hill Estate webicles, service and repair work.

Records from 1999 – 2007 no longer kept. Value of business from 2008 – end of 2013 Value of current business from January – May 2014

£72250.00 £13019.42

My business with Finavon Hill Estate has steadily increased over the years as Finavon has developed. I support the windmill application as hopefully it will guarantee the long term future success of Finavon Hill Estate.

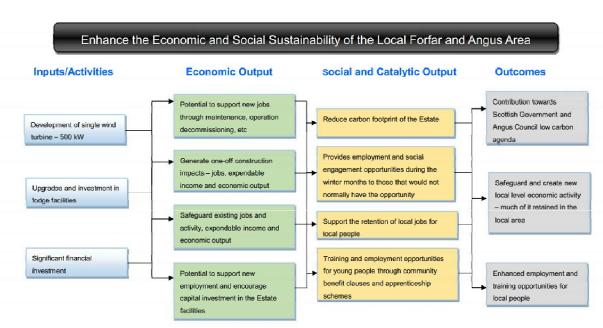
Leslie J Copland





Finavon Hill Estate Wind Turbine

Appendix 2: Socioeconomic Logic Model



Finavon Hill Estate Wind Turbine

AC182



Socio-Economic Impact Assessment – Renewable Energy

Proposal at the Finavon Hill Estate, Angus

Final Report for Jeff Sanderson of Finavon Hill Estate and Construction Partner Kilmac Construction

September 2014

EKOS Limited, St. George's Studios, 93-97 St. George's Road, Glasgow, G3 6JA Reg 145099

Telephone: 0141 353 1994

Web: www.ekos-consultants.co.uk

AC182

Direct enquiries regarding this report should be submitted to:

Chris Kelly, Associate Director, EKOS

Email: chris.kelly@ekos.co.uk

Tel: 0141 353 1994

As part of our green office policy all EKOS reports are printed double sided on 100% sustainable paper

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Executive Summary

This Executive Summary presents the key economic, social and catalytic impacts predicted to be generated through the proposed wind turbine development to support the Finavon Hill Estate - impacts are reported at the Angus Council level.

Economic Impacts

Construction Impacts

- 10 gross / 2 net PYE jobs •
- £680,000 gross / £90,000 net GVA •
- £300,000 gross / £40,000 net salaries •

Operational/Maintenance Impacts

- 5 gross / 1 net PYE jobs
- £255,000 gross / £70,000 net GVA
- £110,000 gross / £30,000 net salaries

Long term impacts

- Economic wealth (net GVA) £4.5m
- Disposable income (net salaries) £2.2m

Catalytic Activity – Safeguarded and New Activity at the Estate

On-Site Impacts

- 10 gross / 11 net FTE jobs •
- £240,000 gross / £275,000 net GVA pa •
- £120,000 gross / £135,000 net salaries pa ٠

Construction Impacts

- 2 gross / 3 net PYE jobs •
- £135,000 gross / £180,000 net GVA
- £60,000 gross / £80,000 net salaries •

Social and Catalytic Benefits

Social Impact

Catalytic impact

- Safeguard and create local employment •
- Support 'hard to reach' groups through • creating apprenticeship positions
- Support long established local
- New activity and investment in the Estate •
- Cleaner and greener energy production •
- Strengthen and support sustainability of • existing supply chain relationships

businesses	
buointeooco	



1. Introduction

Finavon Hill Estate and Kilmac Construction Ltd has commissioned EKOS Ltd to undertake an independent assessment that considers the key economic, social and catalytic impacts predicted to be generated/safeguarded through the proposed single

wind turbine project within the Finavon Hill Estate, Angus. The report will be used to support the Planning Application.

The development proposal is for a single wind turbine, with a hub height of 40m and an overall tip height of 67m. The turbine will provide a sustainable and more costefficient energy source for Finavon Hill Estate. Finavon Hill Estate is a locally owned estate that provides facilities for hunting, fishing and shooting, Arable and Grassland farming and residential premises (11 units accommodating c. 30 people). The estate employs three local people on a full-time basis with a further 20 – 25 on a seasonal basis during peak times. The proposed development will support the sustainability of the Estate over the longer term through reducing energy costs and re-investing income back into the running and development of the Estate from the sale of excess electricity to the Grid.

The proposed development site sits in the Finavon Hill Estate, on the side of the Hill of Finavon and is approximately 6km north-east of Forfar and 13km south-west of Brechin. The site is also in close proximity to the A90, providing a direct route to cities such as; Edinburgh, Perth, Dundee and Aberdeen.

Project Details

The key details of the project are outlined below:

- anticipated output generation of 1,800 MWh of electricity per annum equivalent to supplying 545 homes in the local area;
- Construction phase:
 - o timescales: (two months construction/installation period).
 - total costs £1.5m;
- Operational phase:
 - o timescales: 2016 2036.



- total costs (ongoing operation and maintenance) £0.6m 1.5% per annum of capital costs; and
- Decommissioning phase:
 - o timescales: 2036 to 2037.

The assessment is based on information and data available such as public records, as well as that supplied by the development team. It provides our estimate of the likely economic and social benefits generated through the proposed development. It does not comment on the need for, or business case for the project which has been developed elsewhere.



2. Socio-Economic Baseline

The baseline assessment provides a snapshot of the local area and identifies key economic trends. The policy review discusses the proposal's fit with, and contribution towards a number of local and regional policy documents.

Economic Baseline

The Finavon Hill Estate is developing a successful sporting estate (already established) for 20+ years) and attracting 250+ visitors per annum, many of whom come from outwith Angus and abroad. The Estate has had a longstanding relationship with a number of local business that provide complementary services, including:

- the **Finavon Hotel** (located next to the Estate) the Estate regularly takes • visitors for food/drinks, with a modest number also staying overnight during the shooting season. This relationship has generated commercial benefits for both business owners over a number of years; and
- Finavon Castle Water (FCW) salmon and sea trout recreational fishery. Their •

close co-operation has seen 'economies of scale' through income generation and environmental and wildlife management. The result is that the two businesses have established Finavon as a destination and hub for quality country sports.

The Estate therefore helps bring people and importantly expenditure into the Angus area.

Please note that **Appendix B** contains a letter of support for the project from the Finavon Hotel (as well as other suppliers and local businesses) which identifies the importance of the Estate for bringing visitors into Angus and spending money in the local economy.

Tourism is an important part of the Angus economy, with tourism related employment

representing 11% of the total employment base.

The Estate brings footfall and expenditure to the area, which will have a direct positive affect on a number of tourism related sectors. In this instance we have specifically considered the accommodation and food services sector.



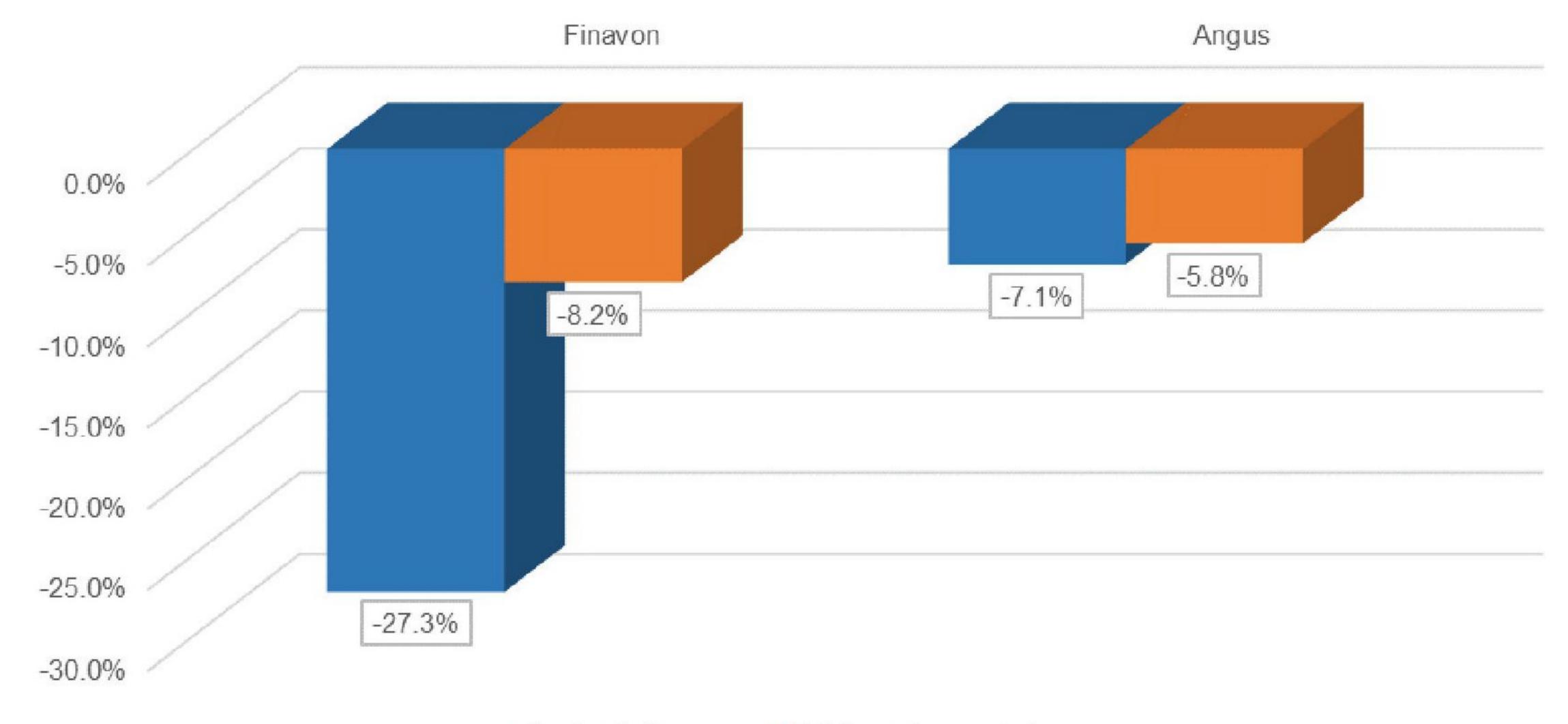
Overall, accommodation and food services represent:

- 6.4% of employment (136 employees) in the local area¹; and •
- 7.4% of employment (2,377 employees) in Angus. •

Figure 2.1 reports the change within the employment base and also considers the

change across accommodation and food services.

Figure 2.1: Change in 'Accommodation and Food Services' Employment (2009 – 12)



Total employment change Sectoral change

Source: Business Register and Employment Survey

Overall, Angus is still feeling the effects of the shake-out from the recession, with the employment base across the region decreasing by around -6% over the period 2009-12.

Further review of the data identifies that, over the past three years employment in accommodation and food services has decreased by nearly one third within the local area - disproportionately greater than the decrease in employment across the local area as a

whole. Across Angus, employment in the accommodation and food services has fallen by

-7.1%.

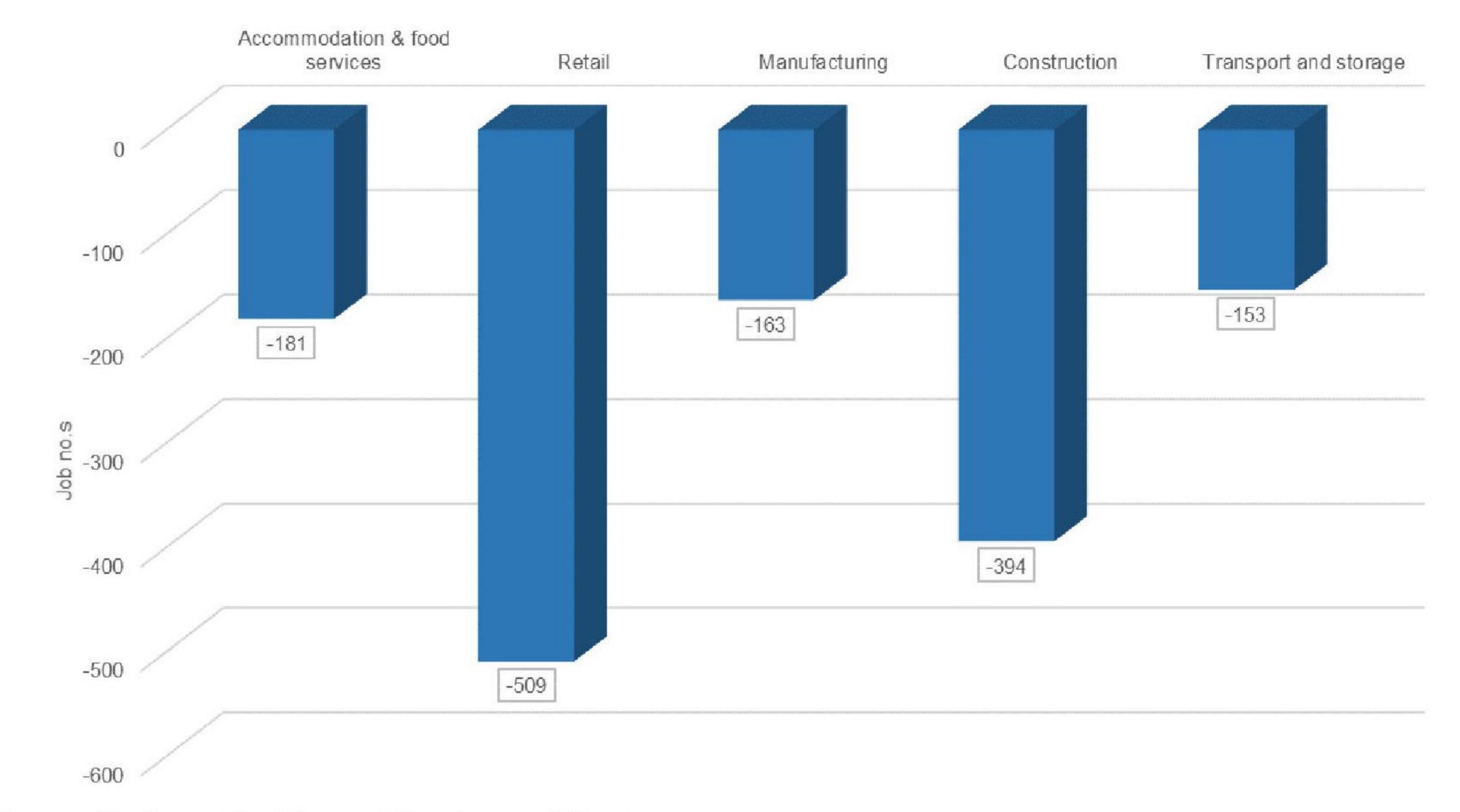
¹ Local area considered as CAS 2003 Ward: Central Forfar.



It is therefore apparent that this key sub-sector, which plays an important role in the region's tourism offering has experienced decreases in activity above what we are seeing across the region more generally - highlighting the potential vulnerability of the tourism sector and the need for a strong tourism offering.

Figure 2.2, over highlights where the largest sectoral decreases have occurred across Angus since 2009.

Figure 2.2: Angus Largest Sectoral Decreases in Employment (2009 – 12)



Source: Business Register and Employment Survey

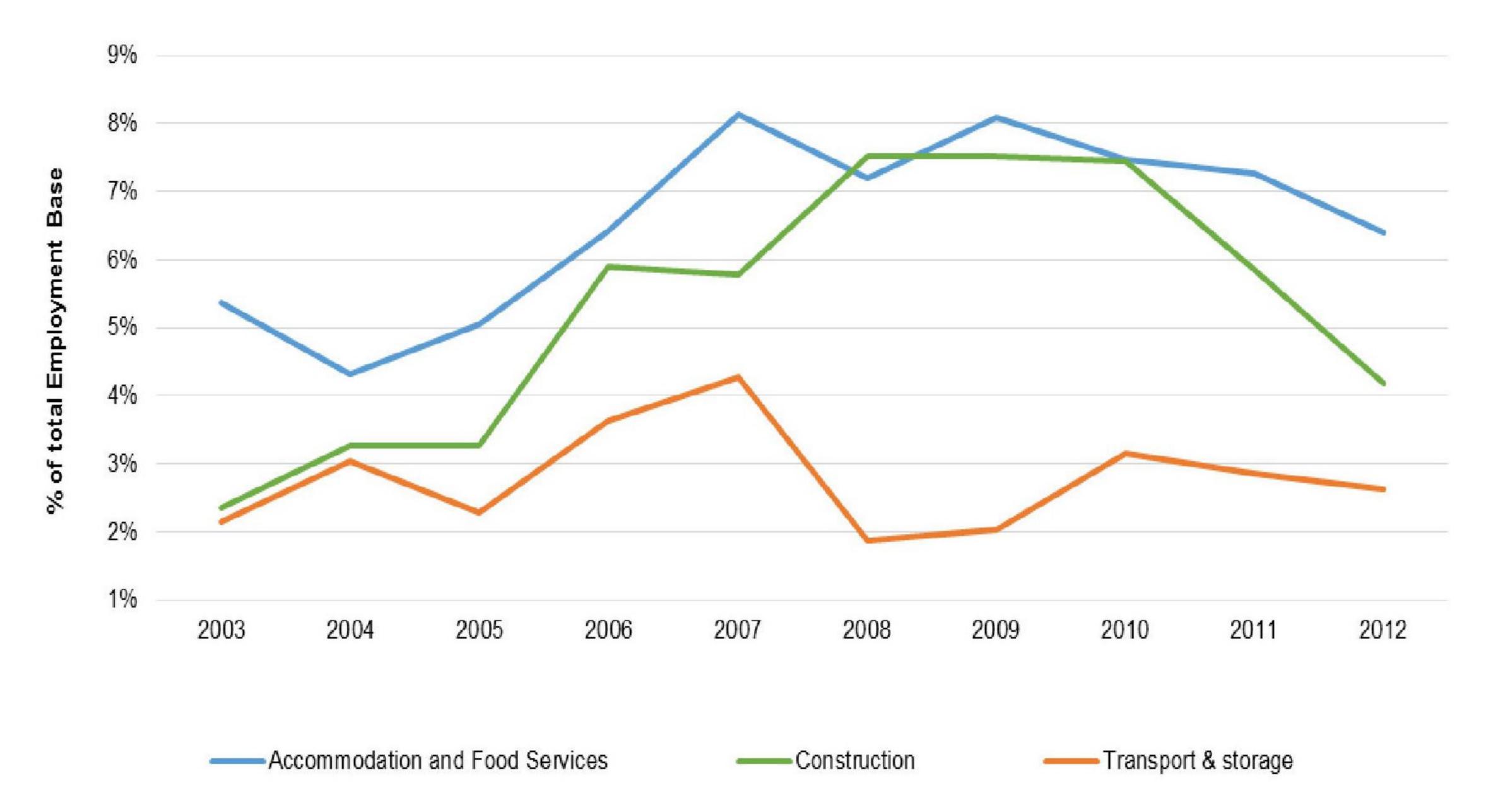
Across Angus, the greatest sectoral decreases have come within the retail and construction sectors (900 jobs in total) representing a decrease of -13% and -18% respectively. Employment within accommodation and food services has decreased by 180 jobs (-7%) over the period 2009 - 12.

Over the last few years, Angus has seen its employment base decrease by around 2,000 jobs, therefore the job losses in the local area (190 job losses) comprise c. 10% of the total losses across Angus.

Figure 2.3, over reports on how the proportionate share of total employment across three key regional sectors that would likely benefit through the project (accommodation and food services, construction, and transport and storage) has fluctuated over a number of years.



Figure 2.3: Change in % Employment Share in Local Area (2003 – 12)



Source: Business Register and Employment Survey and Annual Business Inquiry

The data identifies that the accommodation and food services, and construction sectors showed strong growth until the recession (c. 2008), with accommodation and food services increasing its % share of total employment by c. 3.5% points over the period 2003 – 2008. Since then, employment within accommodation and food services has fluctuated, however, overall, it has experienced a decrease in its proportionate share of employment in the local area.

The wind turbine project presents an opportunity to address this decline by supporting new construction activities and safeguarding activity at Finavon Hill Estate, which will have a positive supply chain impact upon the wider tourism sector in Angus through attracting visitors to the area.

Further, it is important that we consider the impact on the supply chain businesses that support the operation of the Estate itself. For example, agricultural suppliers (food stocks, wood, gravel), and local trades (fencers, builder, and electricians).

Finally, the development would not only benefit the tourism and wider supply chain sectors.



11

Several other sectors across Angus stand to benefit from a local renewables development of this type during both the construction, operational and decommissioning phases:

- construction (accounted for 6% of local jobs in 2012);
- transport and storage (7.5% of employment base in 2012); and

mining, quarrying, & utilities (>1% of employment base in 2012).

Summary

The Angus economy has seen a notable reduction in its employment base off the back of the economic recession and has not been as resilient in comparison to other primarily rural areas.

Tourism is a key sector for Angus and is identified within the Economic Development Strategy (2013-20) as a key sector for driving sustainable employment and growth across the region. Within this, activity tourism is identified as an area for growth potential.

The Finavon Estate brings in a fairly regular stream of visitors, mostly from outwith

Angus. The Estate therefore attracts additional footfall and expenditure into the region that otherwise might not come to the region. Visitors to the Estate will spend money on food, accommodation and other retail services within the Angus economy.

There is therefore a direct link between the Finavon Hill Estate and the wider tourism sector through attracting visitors to the region and encouraging spend across the tourism supply chain.

It should also be noted that the Estate is active during the traditionally quieter low season for tourism operators (winter months) and provides a boost to local businesses. As considered above, the nearby Finavon Hotel has highlighted the importance of bringing in additional visitors during these months, as has Finavon Castle Water.

Finally, the vast majority of those employed by the Estate are residents of Angus which

helps to retain economic activity locally i.e. they will likely spend a large proportion of their

wages and salaries in the Angus economy – reducing 'leaked spend'.



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2.1 Strategic Fit

The proposal for a wind turbine development at the Finavon Estate has a strong strategic fit with key national and local policies across a number of key policy themes, including:

Table 2.1: Finavon Estate Turbine Proposal – Strategic Contribution

Routemap for Renewable Energy – Scottish Government 2011

- Increased target to an output equivalent of 100% of Scotland's electricity • demand to be generated through renewables
- Need for 'rapid expansion' of renewable electricity across Scotland •
- Securing economic benefits which will underpin national and local • economic recovery and continued performance

Strategic Development Plan 2012 – 2032 – Tayplan 2012

- Significant potential to support growth in the renewable energy industry •
- Growing the year-round role of the tourism sector •
- Strengthen the economic base to support the renewable energy and low

	carbon technology sectors	
•	Promote and enhance places and landscapes as economic drivers and tourist destinations	~
	Angus Local Development Plan – Angus Council 2012	
•	Support the region in becoming 'more sustainable, competitive and vibrant, without creating an unacceptable burden on the planet'	~
•	Support all types of renewable energy development in the area	~
•	Help achieve the 'significant growth potential' of the tourism and leisure sectors	~
	Angus Community Plan and SOA – Angus Council 2013	
•	Supporting enterprise and infrastructure in key sectors including tourism & hospitality, and energies	~

Develop a strong business base within the sustainable energies and tourism sectors over the next 10 years



2.2 Key Policy Targets and Objectives

- A Low Carbon Economic Strategy for Scotland Scottish Government (2010):
 - target of 80% of Scotland's electricity generated through renewables by 2020
 - development of low carbon processes and services which generate economic wealth and create jobs

- reduce carbon emissions by 42% by 2020
- Scottish Government's Routemap for Renewable Energy (2011):
 - increased target to an output equivalent of 100% of Scotland's electricity demand to be generated through renewables
 - o need for 'rapid expansion' of renewable electricity across Scotland
 - securing economic benefits which will underpin national and local economic recovery and continued performance;
- TAYplan: Strategic Development Plan 2012 2032 (2012):
 - 'significant potential to support growth in the renewable energy industry'
 - o support the switch to a low carbon and zero waste economy by providing

for appropriate infrastructure

- strengthen the economic base to support the renewable energy and low carbon technology sectors
- promote and enhance places and landscapes as economic drivers and tourist destinations;
- Angus Local Development Plan (2012):
 - by 2032, the region will become 'more sustainable, competitive and vibrant, without creating an unacceptable burden on the planet'
 - reduction of greenhouse gas emissions
 - o support all types of renewable energy development in the area
 - sustainable prosperity across the region
 - 'significant growth potential' of the tourism and leisure sectors; and
- Angus Community Plan and Single Outcome Agreement (2013):
 - supporting enterprise and infrastructure in key sectors including; tourism
 & hospitality, and energies
 - develop a strong business base within the sustainable energies and tourism sectors over the next 10 years.



3. Economic Impacts and Benefits

The economic impacts are reported as jobs (Person Year Equivalent – PYE and Full Time Equivalent – FTE), Gross Value Added (GVA) and salaries, and have been calculated using a bespoke appraisal model and based on HM Treasury 'Green Book' guidance. Impacts are reported at the local (Forfar), regional (Angus) and national (Scotland) level. A full breakdown of the Socio-Economic Impact Assessment (SEIA), including the additionality factors and assumptions used are contained within the **Technical Appendix**.

Our assessment takes account of a range of economic impacts:

- construction impacts captures the one-off impacts associated with the construction of the development;
- operational/maintenance impacts captures the new operational/maintenance jobs that are predicted to be generated. This could include, for example, turbine service works, and insurance costs, etc;
- safeguarded and new on-site impacts captures the activity that will be

safeguarded at Finavon as a result of making the business more sustainable in the long term. In addition, the business owner has identified necessary investment plans and upgrades to the Estate lodge (planning consent has been granted). Foundations have already been excavated at a cost in expectation that the proposal would be granted planning permission – the development is dependent on the turbine scheme moving forward. This new sports lodge which will further generate new employment opportunities; and

 cumulative impacts – captures the net discounted impacts of the proposed turbine development over a 20 year appraisal period, the serviceable life expectancy of the turbine.

In addition, there will be economic activity and impacts associated with the decommissioning of the turbine after its serviceable lifetime (20 years). However, given

the time lag for these impacts to occur and other unknown variables, we have excluded these potential impacts from our assessment.



Technical Note

Throughout this section of the report a number of technical economic terms are used:

gross jobs: the direct jobs accommodated on-site at the proposed development.
 The gross operational on-site jobs has been provided by Kilmac Construction,

however, the economic output associated with these jobs (salaries and GVA) has been taken as sectoral averages from official published data;

- net jobs the out-turn of the gross jobs taking account of:
 - the impact the development is estimated to have on other businesses and the labour market (displacement)
 - the proportion of impacts that will benefit those outwith the defined spatial areas (leakage)
 - the positive spin off benefits generated through income and supplier multiplier effects;
- PYEs the construction and on-site (operational/maintenance) jobs are based on Person Year Equivalents (PYE). This method allows the number of people on-site

over the 20 year lifetime of the project (which will vary over the period between; full-time, part-time, permanent, temporary and contract) to be estimated as an annual equivalent post. Please note, these PYE impacts are one-off;

- FTEs jobs or posts where the working hours are a minimum of 37 hours a week and last for a period of ten years;
- Gross Value Added GVA is a measure of the value of goods and services produced before allowing for depreciation or capital consumption. GVA measures the income generated by businesses after the subtraction of input costs but before costs such as wages and capital investment. GVA is the Government's preferred method for measuring economic performance; and
- net cumulative discounted impacts the total quantified value of the net
 additional GVA impact over the 20 year project lifetime taking account of the data

additional GVA impact over the 20-year project lifetime taking account of the date at which the development will be completed and occupied, and the time value of money i.e. £1 today is worth more than £1 next year. We have used the HM Treasury Social Time Preference Rate (3.5%) to discount the estimated impacts.



Disclaimer Note

Please see Technical Appendix.

3.1 Gross Economic Impacts and Benefits

3.1.1 Construction Phase

The economic impacts delivered during the construction phase are based on the expenditure profile provided by Kilmac Construction Ltd. The total project costs are estimated at £1.5m.

Using a bespoke economic model and industry sector co-efficients to calculate the impact of the capital expenditure, we estimate that the turbine development is likely to generate the following gross construction impacts²:

- 10 PYE jobs;
- £300,000 salaries; and
- £680,000 GVA.

Please note that the construction impacts are one-off and will be generated during the estimated 2-month construction delivery period.

3.1.2 Operational and Maintenance Phase

During the lifetime of the turbine there will be additional annual expenditure to support the operation and maintenance, for example upgrades to machine parts and servicing. The total cost of this is estimated at 1.5% per annum of the total capital costs³.

£1.5m * 1.5% = £22,500 per annum or £0.6m (unadjusted costs) over the lifetime of the turbine.

² Note: Gross impacts are assessed based on the development costs and breakdown outlined in the Technical Appendix and are the same at different spatial geographies. Jobs rounded to the nearest 5 and salaries and GVA to the nearest £5,000.

³ Please note this is an estimate based on information from the European Wind Energy Association and Kilmac Construction



The gross economic impacts that are likely to be generated through the operational and maintenance activities are reported below and are new to the economy⁴.

- 5 PYE jobs; •
- £110,000 in salaries; and •
- £255,000 in GVA. •

3.1.3 Safeguarded and New On-Site Impacts

Any electricity not consumed within the Estate will be sold to the national grid and profits re-invested in the Estate. This will help secure the continued operation of the Estate and safeguard the existing activity and employment; this includes the positive spin-off benefits from the Estate attracting new footfall and expenditure into the local area.

In addition, these cost savings will enable the Estate to move forward with necessary upgrades/extension to the premises. The proposed upgrades include; (new lodge facility, game larder, reception area and more storage space. Planning permission has already been secured for the Estate upgrade works, however, it is dependent on the turbine project moving ahead. The groundworks and excavations were carried out at risk, on the expectance that the turbine project would receive planning permission i.e. the turbine project would leverage in additional funding. The total value of this capital investment is £300,000, with work being undertaken by contractors sourced from the Angus economy.

In order to support the planned growth of the Estate, and as part of the business owners wider succession planning, Finavon Hill Estate has plans to recruit a further two full time employees. Again, this is dependent on the business being sustainable and a viable commercial operation which, in part, in the long terms includes the installation of the wind turbine.

Table 3.1 identifies the jobs that will be safeguarded and created on-site at Finavon Estate.



Table 3.1: Gross Safeguarded and New On-Site Impacts

	Safeguarded Impacts	New Impacts
FTE jobs	8	2
Salaries per annum ⁵	£75,000	£45,000
GVA per annum	£150,000	£90,000

In addition to these on-site impacts, the new capital expenditure to upgrade and extend the sporting lodge facilities will generate modest one-off construction impacts, the gross effects are detailed below:

- Construction impacts generated through new lodge facilities:
 - PYE jobs 2;
 - Salaries £60,000; and
 - o GVA £135,000.

3.2 Net Economic Impacts and Benefits

In order to undertake a robust assessment of the potential new activity generated through

the proposed turbine project, the gross impacts cannot be considered in isolation and must take account of a range of other factors including; displacement, leakage and multiplier effects (as detailed in the **Technical Appendix**). Please note that gross and net impacts are not cumulative, but that net impacts are the outturn of the gross impacts after accounting for additionality factors.

3.2.1 Construction Phase

The turbine will be sourced and manufactured from outwith Scotland. That being said, Kilmac Construction have identified that, where possible they will work with local suppliers to ensure economic activity is retained within the local area.

Consequently, there will be a number of opportunities for Scottish and Angus based

suppliers and sub-contractors to tender for contracts for; site preparation, civil

engineering works, renting of equipment/machinery etc.

The net construction impacts are reported in Table 3.2.

⁵ Note: Salaries for the Finavon Estate are based on information provided by the business owner, GVA is taken as a proportion of salary based on sector benchmarks.



Table 3.2: Net Construction Impacts

	PYE Jobs	Salaries	GVA
Forfar	0	£5,000	£15,000
Angus	2	£40,000	£90,000
Scotland	10	£240,000	£550,000

Note: Salaries and GVA rounded to the nearest £5,000

3.2.2 Operational and Maintenance Phase

Similar to the construction phase there will be opportunities for local businesses during the lifetime of the project to support the operations and maintenance of the turbine.

The net impacts of the operational and maintenance phase are reported in Table 3.3.

Table 3.3: Net Operational and Maintenance Impacts

	PYE Jobs	Salaries	GVA
Forfar	0	£5,000	£5,000
Angus	1	£30,000	£70,000
Scotland	7	£380,000	£170,000

3.2.3 Safeguarded and New On-Site Impacts

The majority of the on-site positions are filled by people from the local area, therefore a large proportion of the salaries/wages generated by the Estate remains within Angus.

Table 3.4 outlines the impact of safeguarding existing activity and the creation of additional jobs at the Estate.



Table 3.4: Net Safeguarded and New On-Site Impacts

	Safeguarded Impacts	New Impacts
Forfar		
FTE jobs	6	2
Salaries per annum (£)	£60,000	£35,000
GVA per annum (£)	£120,000	£70,000
Angus		
FTE jobs	9	2
Salaries per annum (£)	£85,000	£50,000
GVA per annum (£)	£175,000	£100,000
Scotland		
FTE jobs	13	3
Salaries per annum (£)	£115,000	£70,000
GVA per annum (£)	£240,000	£140,000

The net construction impacts associated with the upgrade and extension to the lodge facility are identified in **Table 3.5**.

Table 3.5: Net Construction Impacts – Estate Upgrades

	Net Impacts	
Forfar		
PYE jobs	1	
Salaries	£35,000	
GVA	£75,000	
Angus		
PYE jobs	3	
Salaries	£80,000	
GVA	£180,000	
Scotland		
PYE jobs	6	
Salaries	£140,000	
GVA	£315,000	

3.2.4 Off-Site Impacts

The Estate attracts footfall and expenditure in Angus from outwith the region. Whilst the off-site spend (e.g. buying lunch, and using the local shops, etc) has been captured within our assessment of net impacts (through supply chain indirect multiplier effects), it is important to quantify this local impact.



As an example, the Finavon Estate has a long standing relationship with the nearby Finavon Hotel, and uses the hotel to take visitors for meals, drinks, etc.

In total this is around 250 meals per season (October – February) with around 25 overnight stays. This equates to an additional £6,000 per annum, during the predominantly quieter months for the hotel, and provides a welcome boost that helps

support this local business through the winter months.

This extends to the seasonal staff who benefit from the shooting business e.g. local woman supplying the baking through the shooting season, the beaters, the pickers up, and tradesmen all gain regular seasonal employment.

The Estate has also had a long standing relationship with Finavon Castle Water (FCW) salmon and sea trout recreational fishery over the last 15 years. Their close cooperation has seen appropriate marriage value through income generation and environmental and wildlife management. The result is that the two businesses have established Finavon as a destination and hub for quality country sports.

3.3 Cumulative Impact

The estimated serviceable lifetime of the turbine is 20 years. Whilst the construction impacts will be a one-off, there will be ongoing economic activity associated with the operation and maintenance of the project during the 20 year period, plus the safeguarded and new activity on-site to consider.

It is therefore important that we measure the longer term cumulative economic impact of the project.

When considering the longer term effects, it is important to understand wider market factors such as the time periods over which new economic activity is generated and the 'present value' of impacts i.e. adjusting historical and future impacts into today's values⁶. Cumulative impacts have therefore adjusted/discounted the economic and financial impacts using the HM Treasury recommended rate of 3.5%.

⁶ See HM Treasury Green Book for more information

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/220541/green_book_complete.pdf



Below we have considered the <u>net cumulative effects over a 20 year period</u> - please note that this accounts for the; construction, operational and maintenance and safeguarded and new on-site activity.

Table 3.3: Net Cumulative Impacts of Turbine Project (20 years)

	Salaries	GVA
Forfar	£1.5m	£3.0m
Angus	£2.2m	£4.5m
Scotland	£3.3m	£6.8m

Note: Salaries and GVA rounded to nearest £0.1m

A review of the cumulative impacts identifies the significant scale of the economic activity that the proposal could generate within the Angus economy.

Over the 20-year lifetime the proposed turbine project is estimated to support **10 FTE jobs**, **20 construction/operational/maintenance PYE jobs** and generate net additional **economic output** (GVA) of **£4.5m** and **expendable income** (salaries) of **£2.2m** within the Angus economy.

In addition, a considerable level of economic activity will be retained within the

Scottish economy - £6.8m in GVA.



4. Social, Catalytic and Environmental Impacts

One of the key issues to consider over and above the quantifiable economic impacts reported above is the likelihood of additional social and catalytic impacts/benefits for the local area, and Angus more generally.



Safeguard Local Employment and Generate New Opportunities

Key Points

The Estate employs three full time staff and around 20 – 25 seasonal staff that work during the peak season. The seasonal staff all live locally and there is a range of ages and backgrounds, part of which adds to the Estates friendly and welcoming atmosphere.

The turbine project, through reducing overheads will support the longer term sustainability of the Estate (safeguarding these existing jobs). Many other similar shooting estates have

scaled back considerably in recent years or have ceased to exist.

In addition, the Estate owners have identified that if the project goes ahead this will encourage further investment in the Estate, in particular, making improvements to the lodge facilities. These upgrade works will be undertaken by local contractors.

The Estate's main business is very seasonal in nature; there are c. 150 shooting days per annum over the months of October to February. There is price sensitivity in the shooting market with the Estate currently offering competitive shooting packages to meet the demands of the client. Reducing costs and overheads, etc is therefore important for the commercial sustainability of the business. For example, a few bad seasons could have a significant detrimental impact on the viability of the Estate.

The turbine will not only reduce energy costs (which have been increasing year on year) but is also likely to generate surplus electricity which can be sold back to the Grid, adding another (modest) income stream for the Estate and supporting the longer term viability. This will therefore help safeguard the existing jobs at the Estate.



In addition, proposals (for which planning permission has already been received) for upgrades and improvement to the lodge facilities have been delayed and are dependent on the turbine project going ahead. The improvement works would make the Estate more competitive and bring it into line with the new standards. This would likely necessitate the Estate taking on new employees and expanding its current offering to shooters, for example delivering a wider number of drives.

On top of simply safeguarding jobs, a number of the staff that work on a seasonal basis are older and live in the local area. Working at the Estate provides them with an opportunity to socialise, earn a wage, and continue to be involved with the local community, particularly during the winter months where there may be limited activities for them to engage with.

This includes people with their working dogs and those making/selling hand crafts, etc. There is therefore a 'community' and social aspect to the Estate that should be considered as it acts as a hub for a number of local people.

Supply Chain Opportunities

Key Points

There is an opportunity for local businesses to work with and benefit from the proposed development through supply chain linkages during the construction stage of the turbine and proposed lodge upgrades. As well as during the ongoing operational/maintenance phase during the lifetime of the project.

Appendix B contains letters of support for the project from five local suppliers which helps demonstrate the supply chain linkages.

Kilmac Construction have a strong track record in working with local contractors and suppliers during the assembly and installation stages. Furthermore, they have made a commitment to offer training and apprenticeship schemes to help ensure that local people have access to these employment opportunities. The

proposed training and apprenticeship schemes are specifically geared towards

'hard to reach' groups.



During the construction phase we can split the supply chain impacts into two broad categories:

 direct supply chain impacts – associated with the construction/installation of the turbine this could include; site preparation works, site security, civil/electrical/mechanical engineers works, tradesman and labourers.

In addition, the Estate has indicated that it would look to employ a local construction company to undertake the improvements/upgrades to the lodge; and

 indirect supply chain impacts – the Estate has a long standing relationship with the Finavon Hotel, bringing visitors for breakfast and lunches with a small number also staying overnight.

The total cost of the turbine project is estimated at c. £1.5m, there will be an opportunity for local suppliers to support the installation and operation of the turbine throughout its 20 year serviceable lifetime.

A key way in which the project can positively impact the local economy is through facilitating local employment training and apprenticeship schemes during the; construction, operational and maintenance phases. These schemes can be targeted at

particular groups e.g. young people and, in addition to helping develop new skills etc, will also help to build confidence in supported individuals.

For example, a recent civil engineering project undertaken by Kilmac Construction (upgrade of the South Inch play park project, Perth), included working in partnership with the local authority to provide work experience/apprenticeship positions to nine unemployed young offenders (considered by the local authority as persons most difficult to find jobs for due to the scope and scale of barriers they face to access employment opportunities).

After successful completion of the scheme, five of the young people were offered permanent employment with Kilmac Construction as apprentice ground workers. In addition, through working with other local businesses, Kilmac were able to support three

of the young people into employment as trainee greenkeepers at Craigiehill golf club. The scheme not only provided basic training and work experience, which ultimately helped open up new employment opportunities, but also helped get the young people enthused about working.



Please see the following link within the Perth and Kinross Council website for further details (http://www.pkc.gov.uk/article/7323/New-South-Inch-play-area-celebrates-environment-andcommunity).

Such was the success of this scheme that Kilmac have committed resources to continue this programme on future projects throughout Tayside where possible and have given commitment to Angus Council to offer similar opportunities through the project, this

includes renewable and more traditional civils based projects.

While it is too early to comment on the extent of any local training and apprenticeship scheme being employed in the context of the proposed development, it is clear there is an opportunity for the proposed development to work with local employability partners, support the local youth employment agenda and contribute to the objectives of the Single Outcome Agreement through a focused training initiative.

Finally, consultation with the Finavon Hotel (and as highlighted in the letter of support) has identified that the Estate, through bringing visitors for; lunches, overnight stays, etc brings additional revenue during the quieter winter months.

4.2 Environmental Impacts

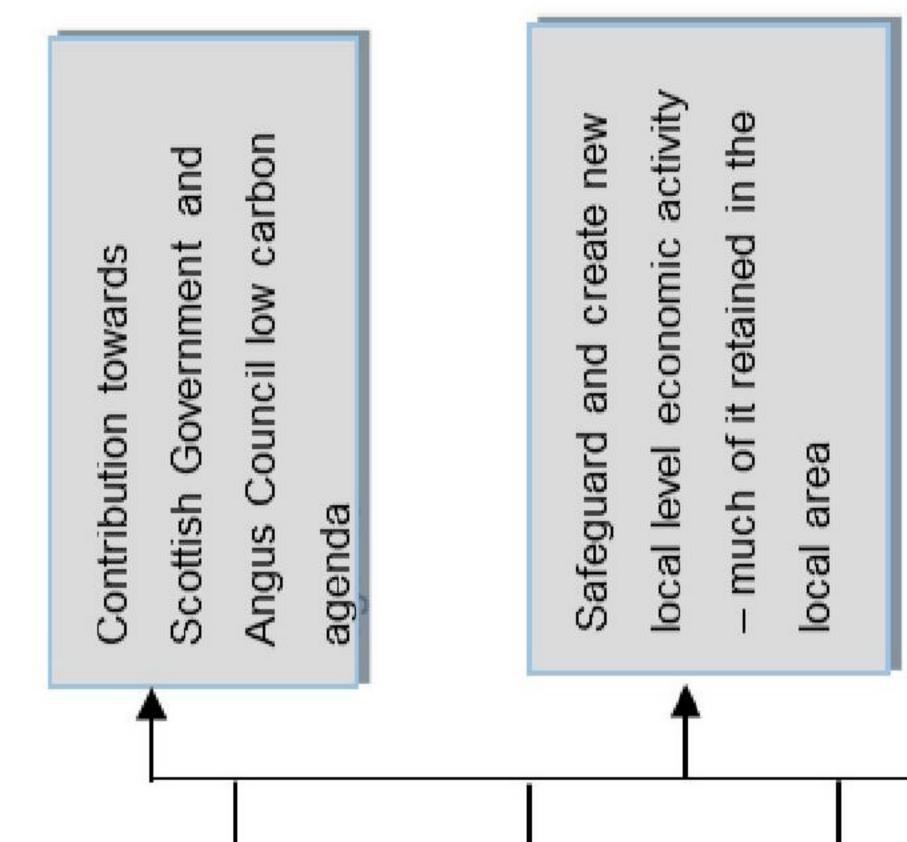
As already considered above, green energy, reducing carbon intensity and CO₂ emissions is a significant policy driver at the national and regional levels.

The project (when working at the expected operational capacity) will generate 1,800 MWh of electricity per annum. This is equivalent to providing electricity for 545 homes every year and will generate CO₂ savings.

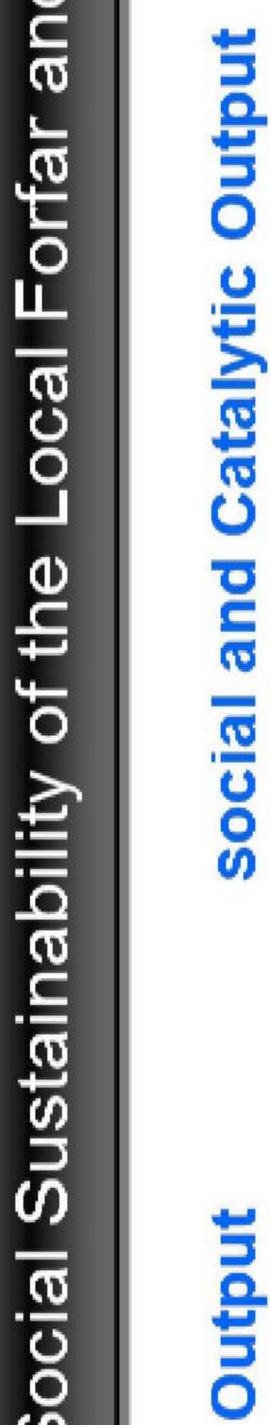


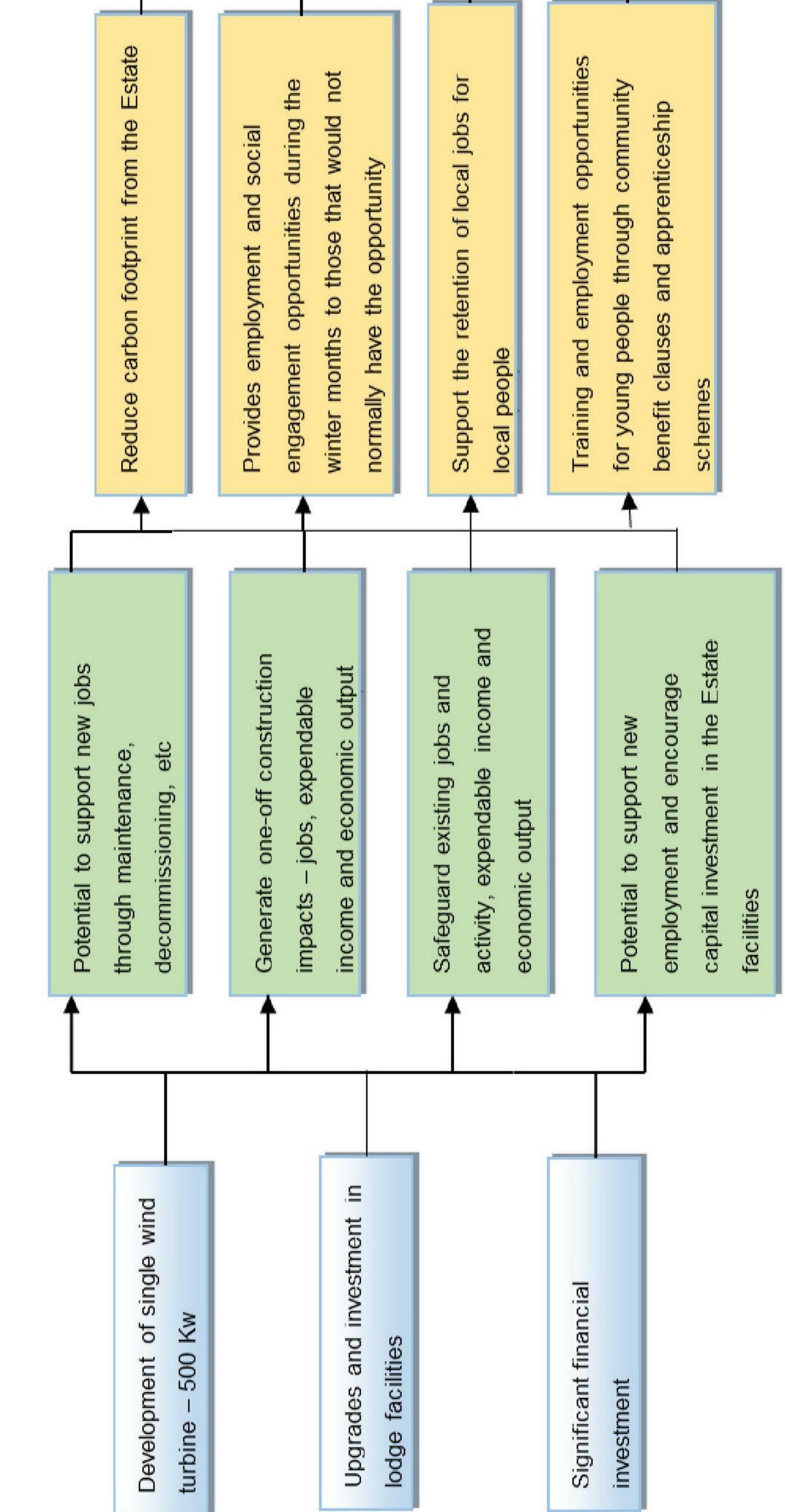
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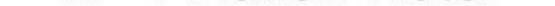
Finavon Hill Estate : Jeff Sanderson and Kilmac Construction at Renewable Energy Proposal



Appendix B: Letters of Support

This Appendix contain letters of support from 10 suppliers to the Finavon Estate and other local businesses. These letters are appended below and include:

1. Finavon Hotel



Milton of Finavon House 2.

- **I&E Crichton Bogindollo Farm** 3.
- J&A Liard Ltd 4.
- Laird Brothers (Forfar) Ltd 5.
- Cotside Quarry 6.
- **Keyline Building Merchants** 7.
- LJ Copland 8.
- 9. GAP Group Ltd

10. Nixon Hire

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FINAVON HOTEL, BY FORMAR, ANGLIS DD8 3QD Tel: 01307 850234 Fax: 01307 850435 www.finavonhotel.co.uk Email: mail@linavonhotel.co.uk

11 March 2014

Dear Sir/Madam

Re: J Sanderson Wind Turbine Application at Finavon Hill

I would like to add my support to the Wind Farm Application by Mr J Sanderson for Wind Turbines at Finavon Hill.

Being the owner of this small business since 1995, I fully appreciate and understand how difficult it is to maintain profitability and sustainability in this economic climate. Small businesses, especially in rural areas, bring much needed income into the area and create employment for local people.

My business is a typical example of this. Throughout the shooting season (1^{st} November – 31^{st} January) we serve approximately 250-275 lunches to shooting clients from Finavon Hill. In addition to this, we also serve breakfast to people travelling to the shoots and provide overnight accommodation for shooting guests. This income is extremely important and beneficial to us in what is traditionally a quiet trading period.

I think it is vitally important that all businesses, whether large or small, find ways to maintain profitability and more importantly long term sustainability otherwise, in my opinion, they will not survive.

This, presumably, is what Mr Sanderson is trying to achieve.

Yours Faithfully

David Howatson



Renewable Energy Proposal at Finavon Hill Estate : Jeff Sanderson and Kilmac Construction

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Milton of Finavon House By FORFAR Angus DD8 3PY

3"^d March 2014

AC182

TO WHOM IT MAY CONCERN

Finavon Hill Wind Turbine Proposal

I am writing to support the application by Finavon Hill Estate for a wind turbine to be located on Finavon Hill. The basis of my support is the socio-economic and environmental effects of a new sustainable revenue stream at Finavon.

As owner and manager of the Finavon Castle Water (FCW) salmon and sea trout recreational fishery business, I value the close cooperation in income generation and environmental and wildlife management, between Finavon Hill Estate and FCW over the last 15 years. The result is that the two businesses have established Finavon as a destination and hub for quality country sports. The reputation of this tourist hub continues to grow.

In terms of employment, the two businesses provide full-time and seasonal work for up to 50 local people, as well as income into the local community. Together they attract over 300 tourists to the area annually, many of whom are high income earners.

An important social aspect of driven game bird shooting is the opportunities it provides for beaters, pickers-up and administrative staff during the winter months. A typical day on Finavon Hill, of which there are twenty or more during the winter, is the employment and social interaction it provides for up to 50 local people of all ages, some of whom have no other regular social contact. Finavon Hill shoot also provides these people with an important contribution to their household incomes.

The construction of a single wind turbine at Finavon Hill will make a vital financial contribution to the income of Finavon Hill Estate. That income will underpin the estate business and ensure that, even in times of economic hardship or adverse natural conditions, there are sufficient resources to ensure that the business remains viable. From the viewpoint of a neighbour, I applaud the outstanding improvements to habitats and wildlife achieved by Finavon Hill Estate.

On that basis, and taking into account the other benefits to the locality provided by the Estate, I fully support the application for permission to erect a single wind turbine at Finavon.

Maxim stresset.

A.P.H.Andrews Finavon Castle Water <u>www.finavoncastlefishing.co.uk</u> Mobile: 07748 634 658

Renewable Energy Proposal at Finavon Hill Estate : Jeff Sanderson and Kilmac Construction

30



I & E Crichton Bogindollo Farm Finavon Forfar Angus

DD8 3PL Tel: 01307 850202 Mobile: 07801 418918

20/03/2014

Wind Turbine at Finavon Hill Estate

To whom it may concern,

I feel that the proposed siting of a turbine at Finavon Hill would be of benefit to my business at Bogindollo Farm.

Over the past seven years a relationship with Finavon Hill has been forged which delivers benefits to both sides. This has allowed the estate to grow further in terms of their sporting enterprise whilst granting me access to a considerable area of land.

I believe, through discussing the matter with Finavon Hill Estate, that this turbine will help increase the chances of our relationship surviving. The generation of a new income stream will allow further expansion of the estate and succession planning to be carried out without jeopardising my business.

This is extremely important to me. Since starting with the estate I have had more confidence to invest in both more modern machinery and farm infrastructure. This has been the result of increased scale and business output.

I have also been able to take on one full time employee and one harvest staff member. This was not justifiable before I became involved with Finavon Hill Estate.

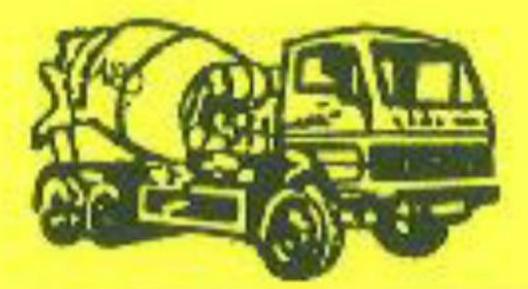
If a wind turbine at Finavon Hill Estate will help maintain my business involvement and structure I hope you will give it serious consideration.

Yours truly,

Euan Crichton







READTAIL CONCRETE

J. & A. LAIRD LTD.

Lunanhead, Forfar, Angus DD8 3NQ Telephone: 01307 466577 Fax: 01307 468642

21.7.14

Angus Council Angus House Orchardbank Business Park Forfar DD8 1AX

Dear Sir,

We believe that the proposed Single Turbine on Finavon Hill Estate will provide a boost to the local economy by supporting businesses in Angus.

We are therefore writing to express our hope that, when reviewing the application from Finavon Hill

Estate that Angus Council will consider the benefits that this project would bring to the local area and grant planning permission for the Finavon Hill Estate single turbine.

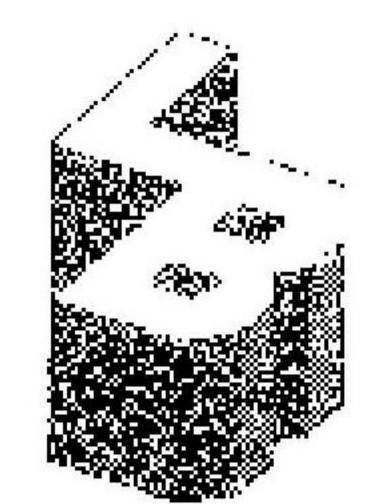
Yours Sincerely



Sales Manager





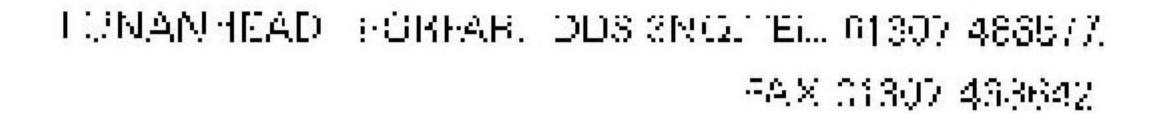


lard brothers (forfar) ltd.

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21.7.14

Angus Council Angus House Orchardbank Business Park Forfar RD8 1AX

Dear Sir,

We believe that the proposed Single furbline on Finavori Hil: Estate will provide a boost to the local economy by supporting businesses in Angus.

We are therefore writing to expression hope that, when reviewing the application from Finavon Hill.

Estate that Angus Council will consider the benefits that this project would bring to the local area and grant planning permission for the Finavor: Hill Estate single turbine.

Yours Sincerely



Jamie ta'rd

Production Manager

DIRECTORS: L. LARO, A. LA RD - Regratation in Montland No. 36032.



William Clark (Barry) Ltd. Cotside Quarry Barry Angus DD7 7RR

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Date: 15/08/14

Angus Council Angus House Orchardbank Business Park Forfar DD8 1AX

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Dear Sir,

We believe that the proposed Single Furbine on Finavon Hill Estate will provide a boost to the local counterny by supporting businesses in Angus.

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Wo are therefore writing to express our hope that, when reviewing the application from Finavon Hill Estate that Angus Council will consider the benefits that this project would bring to the local area and grant planning permission for the Finavon Hill Estate single turbine.

Yours Sincerely



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Archie Clark Managing Director



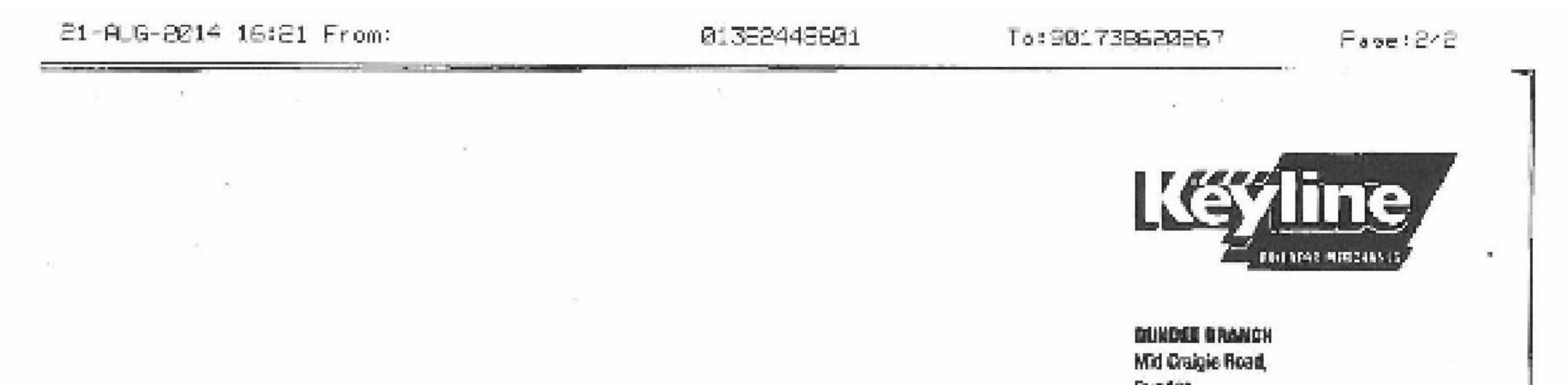
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Renewable Energy Proposal at Finavon Hill Estate : Jeff Sanderson and Kilmac Construction

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Dundes. DD4 78H TEL 01382 448600 FAX 01382 449601 EMAIL des0121@keyime.co.uk www.keydbro.co.uk

Date: 18th August 2014

Angus Council Angus House Orchardbank Business Park Forfar DD8 1AX .

Dear Sir,

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I David Grandison of Keyline Builders Merchants wish to express support for the Finavon Estate

Wind Farm and believe that the local area would stand to benefit greatly from the project.

We also feel that the supply chain opportunities would boost local businesses in the immediate area and also create benefits in the wider region.

Consequently we are writing to reiterate the support in this area for the project.



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Regional Sales Manager - Scotland Nonh

Keyline Bullders Merchants

Contract Merchanting Division

Dunkeld Road, Perth, PH1 3AA

M 07712 878 265







VAT Reg. No. 724 2164 60

Office: 3 Findlay's Land Forfar DD8 3EU

Date: 21 May 2014

I have known Jeff Sanderson for around 25 years. In 1999 I started up my current business and shortly afterwards became a supplier to Finavon Hill Estate Mychicles, service and repair work.

Records from 1999 - 2007 no longer kept. Value of business from 2008 - end of 2013 Value of current business from January - May 2014

£72250.00 £13019.42

My business with Finavon Hill Estate has steadily increased over the years as Finavon has developed. I

support the windmill application as hopefully it will guarantee the long term future success of Finavon Hill Estate.







Date:18/8/14

Angus Council Angus House **Orchardbank Business Park** Forfar DD8 1AX

Dear Sir,

Finavon Hill Estate Single Turbine proposal

We are writing to inform you that we fully support Finavon Hill Estate's application for a single wind turbine at Finavon Estate, Angus and believe that the project could provide a boost to the local economy by supporting businesses in Angus.

We wish to express our hope that the Angus Council will consider the benefits that this project would bring to the local economy when reviewing any decision.

A single turbine at Finavon Hill Estate would offer much-needed opportunities for local businesses to be part of the growing renewable energy industry.

"I support Finavon Estate's application for a wind farm at Finavon Estate, Angus. The project will bring a substantial boost to the local economy and will bring benefits for local community and businesses."

"I feel it is a good location for a single turbine to make use of wind which is a free resource. The Finavon Hill project will bring a much needed boost to local economy."

"I have examined the plans and strongly support the planning application which would maximise the use of local organisations like ours to develop a local supply chain." We the undersigned support Finavon Wind farm project and hope that Angus Council approves the application.

Yours faithfully

Douglas Smith GAP Group Limited.





John Nixon Ltd Longtown Steet

Dundee DD4 8LF

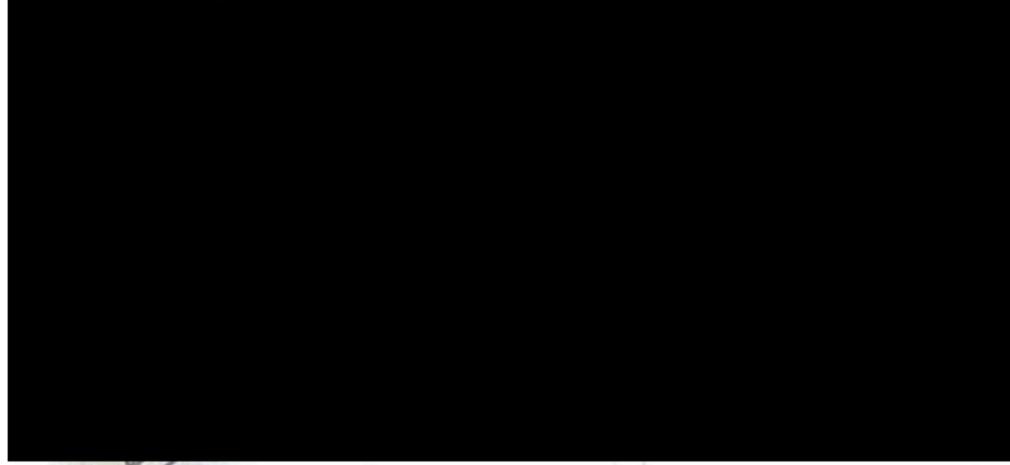
> Angus House Angus Council Orchardbank Business Park Forfar DD8 1AX Monday, 28 July 2014

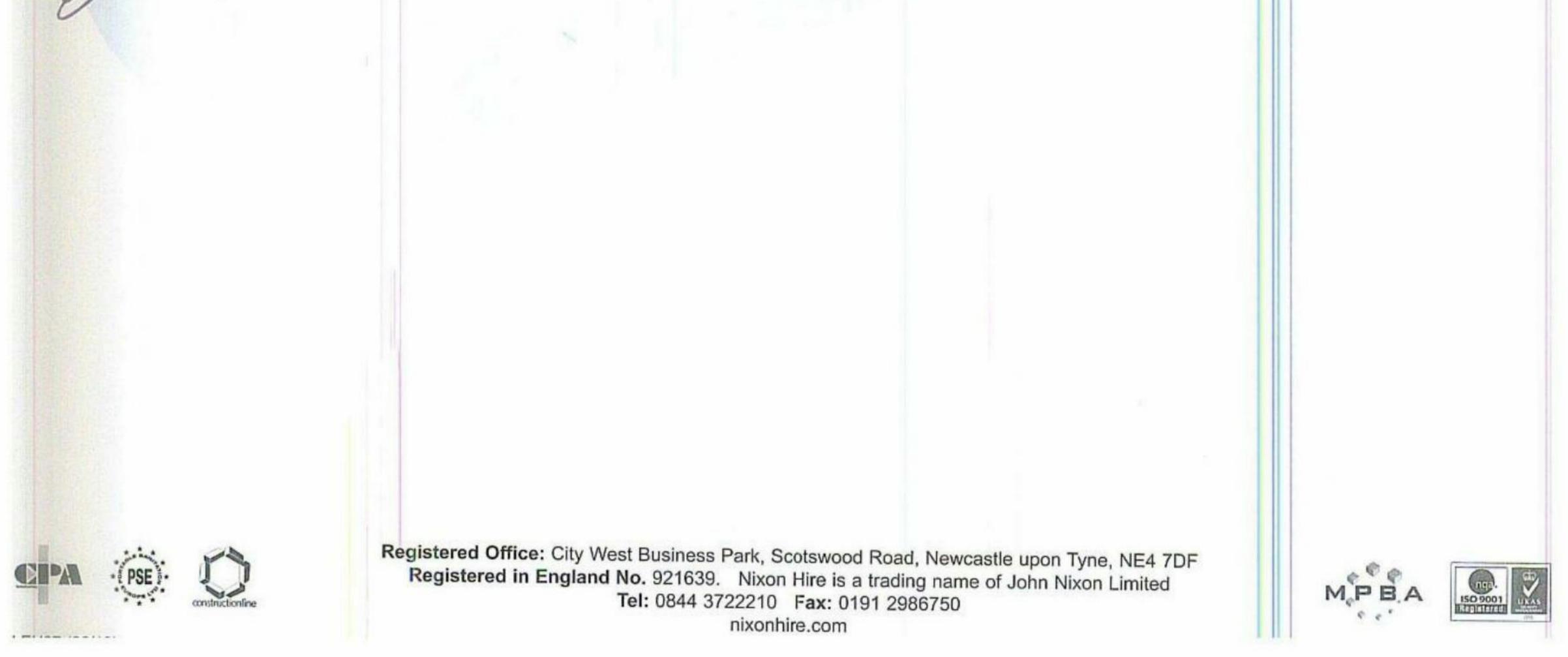
Dear Sir,

John Nixon Ltd wish to express support for the Finavon Estate Wind Farm and believe that the local area would stand to benefit greatly from the project.

We also feel that the supply chain opportunities would boost local businesses in the immediate area and also create benefits in the wider region.

Consequently we are writing to reiterate the support in this area for the project.







Technical Appendix

Disclaimer Note

The SEIA has been undertaken based on information provided by Kilmac, and based on

EKOS' professional judgement and assumptions, outlined below in the Technical Appendix. It does not constitute a detailed market demand assessment but outlines the potential impacts that could be delivered through proposals.

Our review is based on current economic conditions and identifies the potential impacts and benefits that could be generated from the development if completed in full, and occupied as per our detailed assumptions.

The actual results, however, will likely vary from those projected as they will be subject to future market conditions and other economic influences, as well as performance against the assumptions adopted by EKOS.

Variances from our projections could be material (positive or negative), but it should be noted that EKOS has adopted a robust appraisal methodology in the estimation of the

economic impacts for this development proposal.

We do not anticipate substantial variation, unless there is major change in the economic structure, change in market profiles, and/or competition from other developments in the local, regional or national area.

Introduction

This appendix provides the detailed socio-economic impact appraisal (SEIA) and assumptions used within our assessment. This assessment has included an ex-ante EIA and has been undertaken in line with HM Treasury 'Green Book' guidance and using a bespoke appraisal model to assess gross and net outputs.

The impact assessment considers the on-site impacts, one-off construction impacts, operational/maintenance impacts, financial impacts and the longer term economic impacts.

A copy of the detailed Excel model used within our assessment can be obtained through contacting the report author direct.



Gross Impacts

The gross economic impacts i.e. jobs, Gross Value Added (GVA) and salaries have been calculated based on information provided by the development team and using sectoral co-efficients, specifically turnover/capital expenditure/ per employee for the wider sector.

Construction and Operational/Maintenance Impacts

The construction phase of the development will generate additional one-off construction impacts associated with the new investment and development, whilst there will also be on-going activity associated with the operation and maintenance of the turbines.

Our analysis of the renewable sector employment impacts are based on Scottish Annual Business Statistics data. The analysis uses an employment co-efficient of £122,478 spend required to sustain one full-time employee for a period of one year – a Person Year Equivalent post (PYE).

The renewables co-efficient is derived from Scottish Annual Business Statistics (2011, and adjusted using the GDP Deflator to reflect 2013/14 prices)⁷, which provides data on

the average construction spend per employee.

The jobs are based on PYEs, and this method allows the number of people on-site over the whole delivery period (which will vary over the period between full-time, part-time, permanent, temporary and contract) to be estimated as an annual equivalent post -PYE.

Gross jobs are derived from dividing the total costs, (estimated at £1.6m for the construction element and £0.6m during the operational and maintenances phases respectively) by the renewable sector employment co-efficient (regional figures provided).

Table A1: Gross On-site Job Assumptions

Construction costs	Costs	£ T/O per employee	Gross jobs
Capital cost	£1.5m	£122,478	12
Maintenance costs	£0.5m	£122,478	5

⁷ Please note that at the time of finalising this report, the most up-to-date information with regards price adjustment (using the GDP Deflator) was for 2013 prices (updated on 8 January 2014).



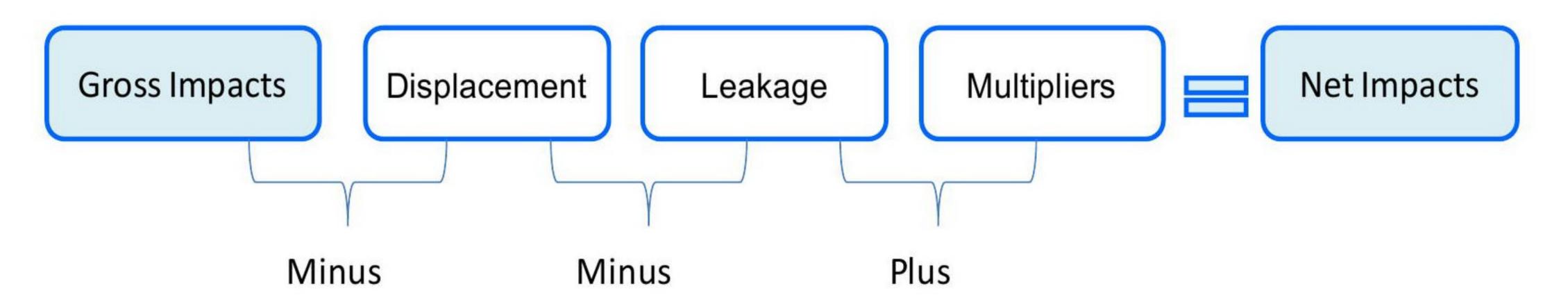
Gross PYE job impacts are then taken through the gross to net calculation as outlined below.

Net Impacts

However, in order to assess the true economic impact, the gross employment is

considered in terms of displacement, leakage and multiplier effects – the logic chain, see Figure A1. Please note, the net impacts are assessed at the Forfar, Angus, and Scotland levels.

Figure A1: Moving From Gross to Net Impacts



Gross Value Added (GVA) and Salaries

Gross Value Added (GVA) is a measure of the value of goods and services produced before allowing for depreciation or capital consumption⁸.

GVA measures the income generated by businesses after the subtraction of input costs, but before costs such as wages and capital investment is paid prior to arriving at a figure for profit.

Salaries measure the employment costs (not including employer's contributions to NI, etc) for labour, this can be considered as the gross expendable income i.e. 'take home gross pay. .

GVA and salaries per employee are calculated for the renewable sector based on data from the Scottish Annual Business Statistics.

Latest data was for 2011 and therefore, this was adjusted to 2013/14 prices using the GDP Deflator, see Table A2.

⁸ Gross Value Added (GVA) is equivalent to Gross Domestic Product (GDP) at basic prices.



Table A2: Average GVA and Salary per Employee Assumptions

	Average	Uprated to 2014
Angus		
GVA	£53,434	£55,643
Salaries	£23,563	£24,537
Scotland		

GVA	£60,957	£63,477
Salaries	£29,185	£30,391

Source: Scottish Annual Business Statistics

The GVA and salary impact is derived from multiplying the jobs by the average GVA/salary per employee figure – for both gross and net impacts.

Activity at Finavon

The turbine project will help to safeguard and secure/safeguard the existing activity at Finavon Estate. In addition, the Estate owner has identified that should the project proceed, this will encourage additional investment and upgrade works at the Estate (c. £300,000 investment).

For the purposes of the appraisal we have calculated the wider impacts that the project will help safeguard and create through sustaining the current levels of activity and encouraging new investment.

The gross jobs are based on information provided by the Finavon Estate – 10 FTEs. The salary costs for employees has been provided by Finavon Estate and GVA to salary co-efficients for the wider tourism sector have been used to calculate the economic activity associated with these jobs. Figures are for 2011 and therefore have been uprated to 2014 prices and to FTEs, see Table A3.

Table A3: Average GVA and Salary per Employee Assumptions –

	Safeguarded jobs	New jobs
GVA	£19,076	£45,000
Salaries	£9,375	£22,500

Note: New jobs assumed to be senior management positions



Long Term Impacts

In order to assess fully the impact of the proposed activity, it is important to consider the longer term impact it is likely to have on the local economy, both directly through the turbine project, but also through safeguarding activity and creating new jobs.

In order to accurately gauge the impact we must consider the total quantified value of the development impact over the 20 year serviceable lifetime of the project, taking account of the date at which the development will be completed, and the time value of money i.e. (£1 today is worth more than £1 next year). We have used the HM Treasury Social Time Preference to discount the estimated impacts at 3.5%.

Full details of the cumulative impacts and the adjustments taking account of the 3.5% discounting factor can be obtained by contacting the report author direct.