



West of Scotland
Inverclyde Renewable Energy Hub

Inverclyde
council



ri
riverside inverclyde

A photograph of several white offshore wind turbines in a blue ocean under a clear sky. The turbines are arranged in a line, receding into the distance. The image has a blue color cast.

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For your renewable industry support in the West of Scotland,

Inverclyde

Inverclyde has been identified in the National Renewables Infrastructure Plan as a potential offshore renewables' site which, with its co-joined proposition with the priority site of Hunterston, identifies Inverclyde as a strategic location for this industry. Whether in Operations & Maintenance for Offshore Wind, Wave & Tidal Manufacturing or supporting both those aspects of the Renewables Industry in Fabrication, Sub-Assembly, Applied Research & Development and Testing capabilities, Inverclyde can meet the needs of renewables companies.

Inverclyde is one of Scotland's 32 unitary authorities and includes the waterfront district towns of Port Glasgow, Greenock and Gourock, plus Kilmacolm, Wemyss Bay and Inverkip.

We offer:

- Proximity to Offshore Wind sites
- Ports, Infrastructure & Connectivity
 - Minimum water depths of 8.2 metres low tide
 - Bespoke office accommodation
 - Land platformed and ready for development
 - Excellent road, motorway, rail and air connectivity
- Government backing & support
- Testing and R&D opportunities
- Skilled workforce

the emerging solution for you is Inverclyde together with Hunterston

“We now need to look beyond Scotland’s own energy needs and look to a future when we will have 40, 50 or 60GW of renewable power from wind, wave and tidal resources to help the wider European Community to achieve its Climate Change goals.”

Alex Salmond, Scotland’s First Minister

Introduction

Scotland seeks to maximise the economic benefits from its abundant renewable energy resources. The Scottish Parliament unanimously passed the Climate Change (Scotland) Bill in 2009 that is the most ambitious of its kind globally, and which includes the introduction of a statutory target to reduce Scotland’s greenhouse gas emissions by at least 80 per cent by 2050 (including 42% by 2020) and meeting 50 per cent of electricity demand from renewable sources by 2020.

To reach these targets Scotland is developing its offshore renewables market by opening up its territorial waters to wind farm development and wave and tidal projects.

In February 2009 the Crown Estate announced Scottish Territorial Waters’ sites for development of offshore wind farms that included three sites located in the West of Scotland.

The market size in offshore wind is quantifiable, but as yet the wave and tidal industry is at a very early stage and still to be fully assessed. However with one of the longest coastlines in Europe, the Scottish Government has estimated 10% of Scotland’s electricity production could come from marine resources.

The proposed expansion of offshore wind, wave and tidal projects represents a significant economic opportunity to the West of Scotland both through encouraging potential inward investors, and through the supply chain opportunities for the indigenous company base, in which regard Inverclyde is well placed.

There is at present a national brochure for this sector, developed by Scottish Development International, outlining the advantages that Scotland affords companies looking to invest in Scotland. This Inverclyde brochure aims to supplement that by outlining the opportunities and strengths of this particular area and Hunterston in relation to the offshore renewables market.



Inverclyde and Renewables

Inverclyde is well-suited to encourage the location of renewable energy companies. It boasts excellent existing facilities, the capacity to double quay lengths and access to a workforce retrained from the technical, professional and artisan skills of the legacy shipbuilding and IT industries that made Inverclyde the export capital of Scotland.

Covering the 4.5 miles of scenic waterfront between Port Glasgow and the centre of Greenock, the partnership of Riverside Inverclyde, Clydeport, Inverclyde Council and Scottish Enterprise has the infrastructure in place that has already attracted Renewable Energy focussed companies to relocate to the area. You will encounter the vision, innovation, client care and quality of service that already distinguishes us.

As part of your integration into the Inverclyde community, you will be welcome to join an alliance of private companies and public bodies who are working together to ensure that maximum opportunities are realised for them and for Inverclyde. The “Inverclyde Renewables Alliance Group” was set up in 2009 and includes Riverside Inverclyde, Clydeport, Inverclyde Council, Scottish Enterprise, Ferguson Group, Jenda Energy, Mainstream Renewable Power, 2020 Renewables, Turbo Renewables, James Watt College and JLES (see back cover inserts), plus active support from our local MP, MSP’s and industry consultants.

Two of the Renewables Alliance member companies:



Ferguson’s Shipbuilders and **Ferguson’s Renewables Solutions** are located within Inverclyde and have strong links to companies in Offshore Wind and Marine energy, most notably with the innovative Green Energy award winning Subocean Group. Ferguson’s works closely with Scottish Enterprise and has a portfolio of skills, expertise and assets that strengthen the Inverclyde proposition. Facilities and services include 5,000m² equipped fabrication space, 70 tonne craneage, plasma and gas cutting equipment, structural steel work, bridges, architectural structures, process handling equipment, marine structures etc.



Having relocated to Riverside Inverclyde’s new Renewables Hub office development (see above), **Jenda Energy** brings an outstanding reputation and track record of providing a wide range of successful and innovative engineering consultancy, project management and technical services to the oil and gas industries as well as offshore renewables, to the Inverclyde proposition. Jenda Energy is one of the very few companies in Scotland who have a track record of managing renewable energy projects for various clients. The company manages clients’ projects through concept design, engineering, testing, procurement, supply chain, fabrication, site selection & preparedness, installation and commissioning.



Inverclyde - Ready now for your business

“The Crown Estate’s Scottish Territorial Waters’ Offshore Wind Exclusivity Agreements awarded in February 2009 included three west of Scotland sites. SSE Renewables won two of these sites, having a total capacity of 1058MW capacity and Scottish Power Renewables won the third, the largest capacity of all the Round 2 Awards, the 1500MW Argyll Array.

Excellent west coast hub locations and facilities are essential to support those locations. That’s where we come in.

Riverside Inverclyde (ri) is an Urban Regeneration Company set up as a partnership between Inverclyde Council, Scottish Enterprise and the private sector. The partnership has the full support of the Scottish Government and has been designed to secure and enhance the long-term economic growth and prosperity of the Inverclyde area, using a twin track approach of “going for

growth” through the exploitation of existing and new opportunities and “spreading the benefits of growth” for the business and residential community of Inverclyde. The Scottish Government’s Communities Minister, Alex Neil, in opening Clyde View - Riverside Inverclyde’s new offices in Greenock designed to be a hub for Renewable Energy - acclaimed how this twin track approach was being applied to ri’s renewable energy proposition: a proposition that’s right for the West of Scotland.

With Inverclyde’s prime location and facilities, and the backing of the Scottish Government, we have the right proposition for your company’s relocation to Inverclyde.

We look forward to working with you.”



Bill Nicol
CEO

Riverside Inverclyde



riverside inverclyde

“Clydeport, part of Peel Ports, is the statutory authority for the Clyde estuary. In addition to regulating and enabling river and estuary traffic and providing long term anchorages and berthages, Clydeport has a range of port and ancillary stevedoring facilities throughout the estuary which can provide a full range of facilities.

At Inverclyde, as well as the port hub at Greenock Ocean Terminal, the marine and ship construction facilities at Inchgreen provide ready made facilities to service the renewables market.”



Euan Jamieson
Property Director
Clydeport Properties Ltd



“Inverclyde has enormous potential to play a pivotal role in the renewable energy industry not just in Scotland but in Europe and perhaps the world. We have a long and proud history as an important shipbuilding and marine engineering area and I am confident we can look forward to a similarly prosperous and vibrant future in renewables.

Inverclyde is perfectly placed geographically to service and support the industry and has a skilled workforce waiting in the wings to take up the challenge.”



Aubrey Fawcett
Corporate Director
Regeneration & Environment
Inverclyde Council

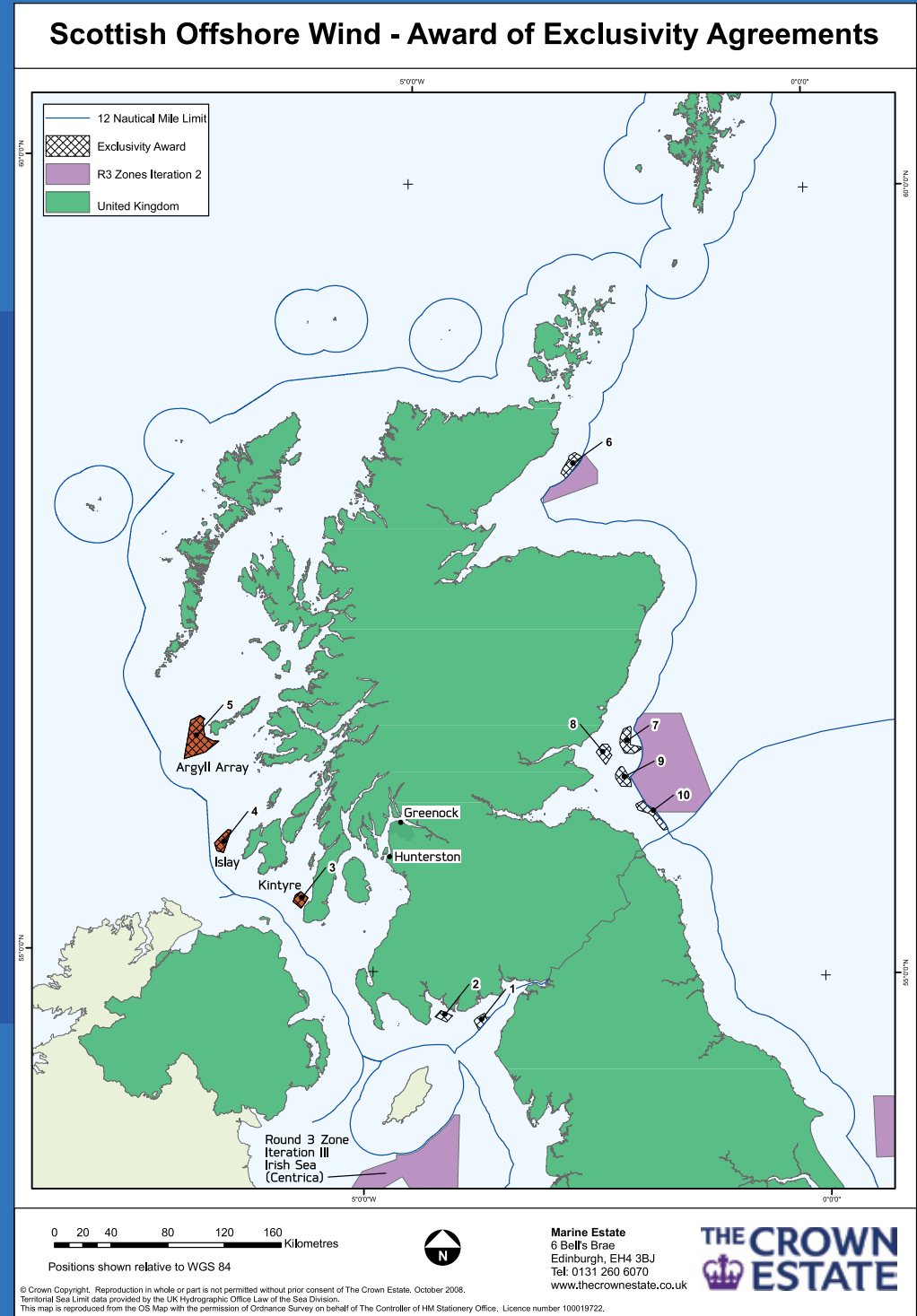


Proximity to Offshore Wind Locations

The Renewables Industry expansion from the North of Scotland has begun. In February 2009, The Crown Estate announced its awards for 10 Offshore Windfarms in Scottish Territorial Waters. Three of these sites are in the West of Scotland; at Kintyre (SSE Renewables); Islay (SSE Renewables) and the Argyll Array (Scottish Power) with a combined capacity of 2858MW.

The Firth of Clyde has one of the deepest sea entrance channels in Northern Europe, and the Inverclyde ports at Inchgreen and Greenock Ocean Terminal plus Hunterston, only 20 miles away, are best placed to support the 3 West of Scotland exclusivity agreements for Offshore Wind sites. The Crown Estate's Round 3 release in the Irish Sea (Centrica) can also be supported from Inverclyde and Hunterston.

The facilities exist for YOUR Renewables related business here in Inverclyde, whether in Operations & Maintenance for Offshore Wind, Wave & Tidal manufacturing or sub-assembly, consultancy and project management, or Applied Research & Development and testing capabilities.





Greenock Ocean Terminal

Inchgreen



Hunterston



Inchgreen

Ports

Inchgreen

As well as the dry dock and the details below, this port has opportunity for land expansion up to 100 acres and is adjacent to the main A8/M8 route to Glasgow's airport and city centre, with linked onward motorway and main connections to all other parts of Scotland. Inchgreen is immediately opposite Bogston railway station, with its frequent services to Glasgow Central Station and its extensive rail network beyond.

Inchgreen summary detail:

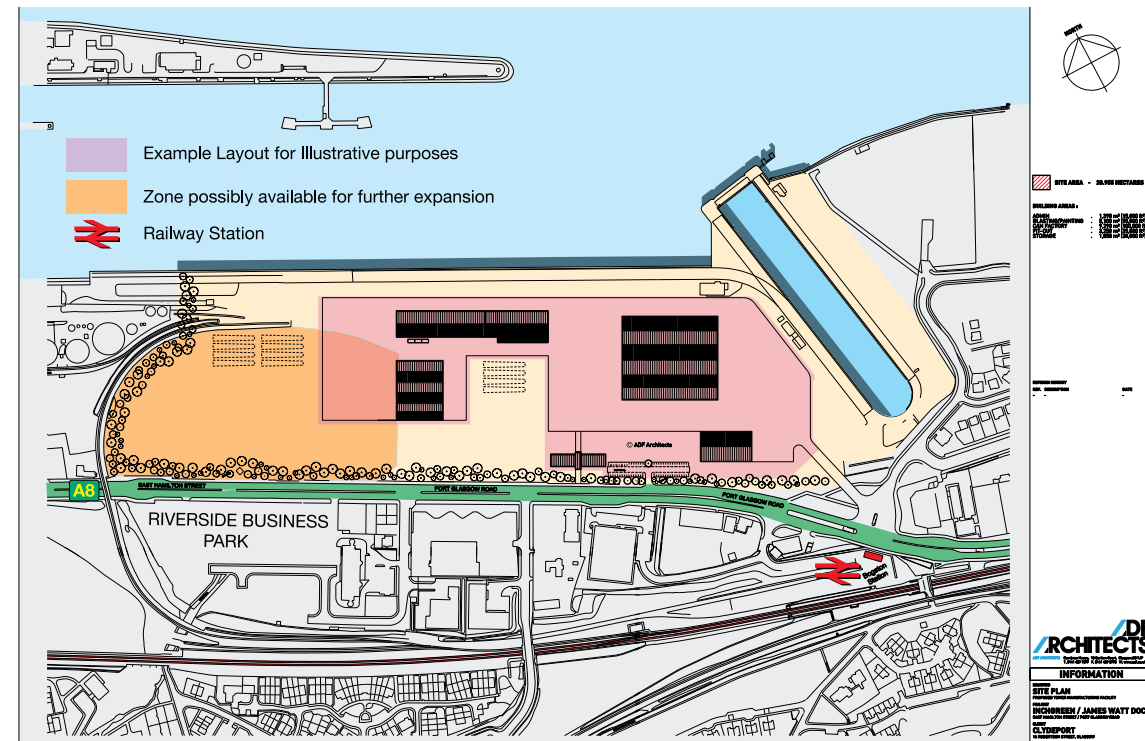
- Covers 203,000 sq m
- Potential to expand to approx 400,000 sq m

Principal areas

- Dry Dock 304.8m x 47.5m
- Water depth over keel blocks: 13.7m
- Quayside 420m long
- Reinforced Module Mat 100m x 80m
- Hard Standing Area 60m x 95m

Water at Quay

- Min depth at waterfront (low tide) 8.2m
- Max depth at waterfront (high tide) 11.3m
- Distance to open water 8 km
- Min water depth in channel to open water 8m
- Services/facilities include: gate winch; capstans; equilibrium filling valves; dewatering pumps; drainage pumps; ballast pumps; high pressure booster pump; pumphouse drainage pump; lead-in winches; dock sewage ejector; 15-70 tonne crane.



Ports

Greenock Ocean Terminal

The Ocean Terminal is only 2 miles east of Inchgreen Yard. It has immediate access to the A8/M8 network, is located only yards from Greenock Town Centre and is in walking distance to both Greenock Central and Greenock West railway stations. It benefits from the same transport links as Inchgreen Yard to Glasgow and beyond via road and rail. Greenock Ocean Terminal serves not only the west coast of Scotland but also northern and central England. A sheltered, deep water port, it has purpose-built container facilities and is the main container port for Glasgow and surrounding areas. Daily feeder services connect with deep-sea services in Southampton, Liverpool, Belfast, Bristol, Dublin, Bilbao, Antwerp and Rotterdam. It also hosts about 40 cruise liners annually.

Greenock Ocean Terminal summary detail:

Total area of the site is approx 200,000 sq m

Facilities

- Quay length currently 376m (planned to double in length)
- Water maintenance depth 12.6m
- Container, cargo & cruise facilities
- Purpose built container facility
- Short/long-term container storage
- 18,580 sq m covered storage
- Devanning /container loading
- Feeder service and Forest product handling

Services

- Discharge, loading & storage
- Towing
- Road haulage
- Port Storage
- Stuffing/unstuffing boxes
- HM Customs
- Pilotage Agency



Ports

Hunterston

Located on the Clyde coast, 20 miles from Greenock, Hunterston is designated as a nationally strategic site and forms the extended West of Scotland proposition. It is owned by Riverside Inverclyde's partner, Clydeport and presents opportunity for large scale development.

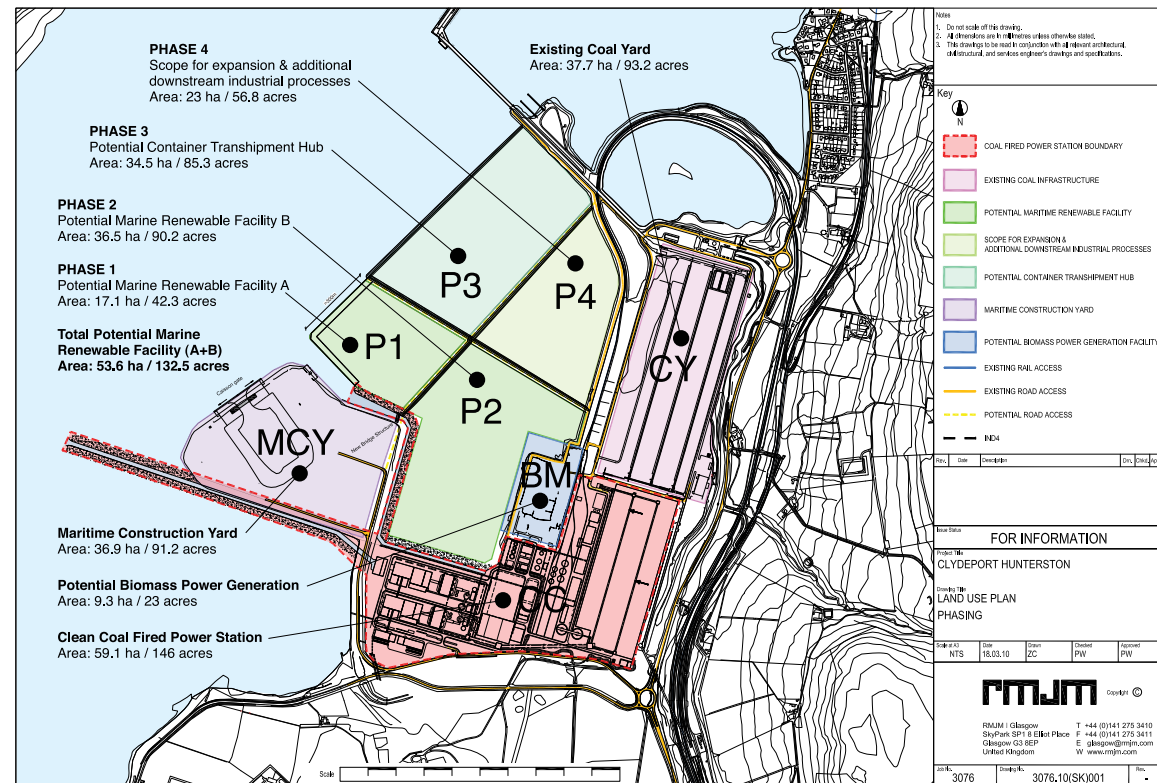
Hunterston summary detail

Total area of the site is 4,090,000 square metres

Key points:

- Platform yard 400,000 square metres
- Re-use existing construction yard 345,000 square metres
- In-fill behind construction yard 523,000 square metres
- Quay 67m (4.5m depth MLWS)
- Outer berth 443m
- Channel depth 26m
- Tidal range 3m
- Dwt 350,000
- Draft 23m
- Inner berth 300m
- Dwt 95,000
- Draft 19.8m
- Under keel clearance 2m

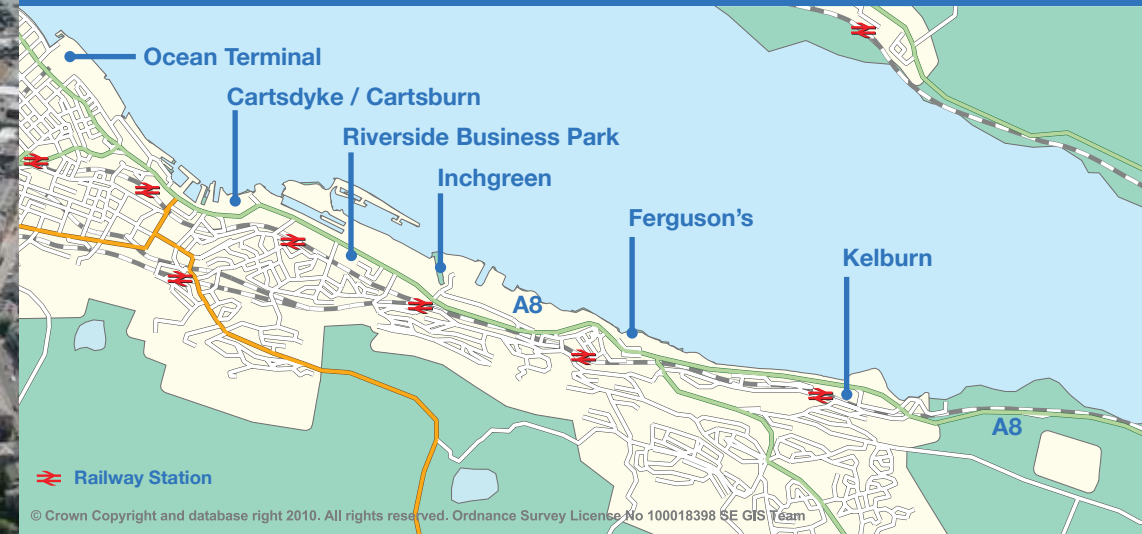
Facilities/services include: (un)loading deep water berths; overflow area, forward loading area; marine platform construction yard, bulk handling material; blending; sampling/monitoring; pilotage; towage; cranes; port security; HM Customs Agency.





Infrastructure

Inverclyde's renewable energy locations are contained within a 4.5 mile stretch of waterfront, all alongside the arterial A8 road. At the east entrance to Port Glasgow, adjacent to the M8 motorway is the 30,000 square metre, platformed land development of Kelburn intended for industrial usage, less than a mile away from Ferguson's Shipbuilding and Fabrication Yard, also home to Ferguson's Renewable Solutions.



Two miles further west is the Inchgreen port, yard and dry dock facility (detailed on previous pages), less than a quarter of a mile away from Riverside Business Park's new 1,922 sq m Grade A office space of Clyde View that is fast establishing itself as a centre for Renewables Industry related companies. Clyde View has variable suite sizes that can be adapted for your needs. Land adjacent is available for a similar sized development. Between Clyde View and Greenock Ocean Terminal (also detailed on previous pages) is the 14,000 square metre, Cartsydyke/Caratsburn site, platformed for office development. Running parallel to all of those locations and the A8 is the main railway line (see Connectivity).

Connectivity

On the banks of the River Clyde, **Inverclyde**, featuring the potential renewables' industrial and commercial locations of Greenock and Port Glasgow, only 16 miles from Glasgow Airport via the M8 motorway link, is the location of choice for the renewable energy industry on Scotland's west coast.

BY ROAD

Inverclyde to.....

Glasgow International Airport	16 miles via A8/M8
Glasgow city centre	24 miles via A8/M8
Glasgow Prestwick Airport	41 miles via A78
Hunterston	20 miles via A78
and via A8/M8 and further motorway connections	
Methil	91 miles
Dundee	71 miles
Aberdeen	169 miles

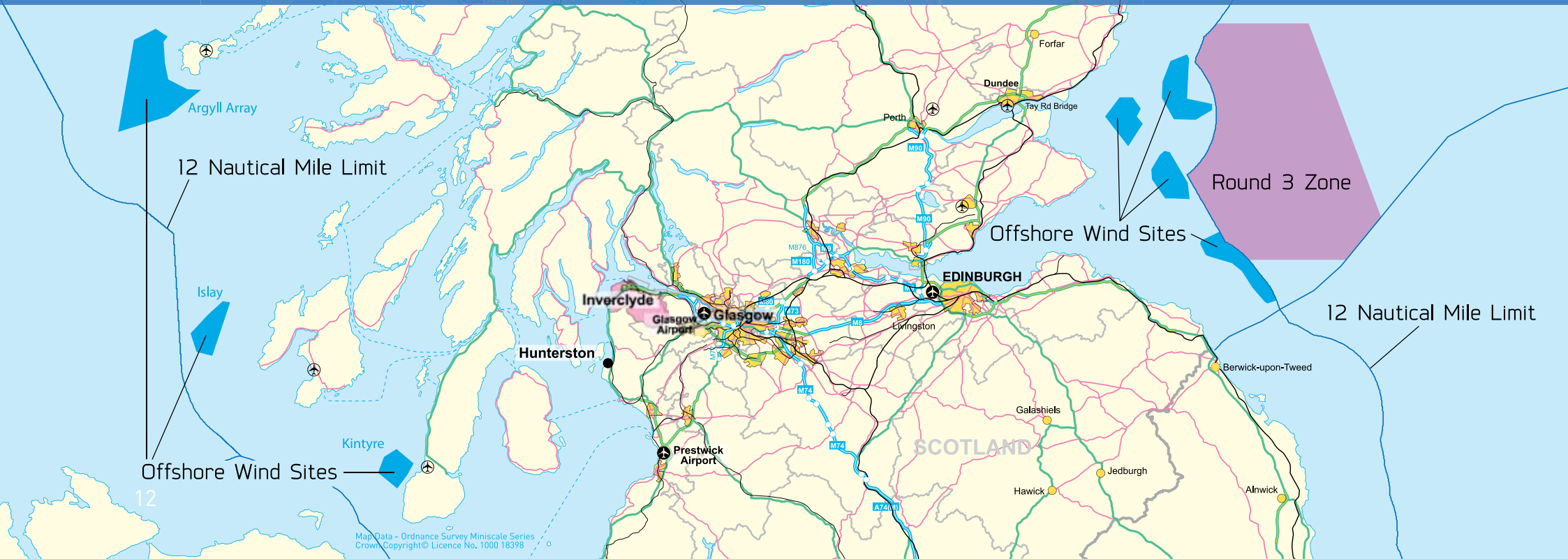
BY RAIL

Running parallel to the A8 corridor alone, in Port Glasgow and Greenock there are 5 railway stations adjacent to the Renewables locations within Inverclyde: Woodhall; Port Glasgow; Bogston; Cartsdyke and Greenock Central. Additionally there is a rail spur into Inchgreen.

BY AIR

Glasgow International Airport has frequent flights to around 30 international cities, including New York, Toronto, Vancouver, Amsterdam, Paris, Berlin, Copenhagen, Dubai, Geneva, Halifax, Paris and Philadelphia; multiple daily flights to London (Heathrow, Gatwick, London City, Luton and Stansted); and to 21 other UK locations (including the air service to the Scottish islands and peninsulas of Campbeltown (Kintyre), Islay, Tiree, Benbecula, Barra, Orkney (Kirkwall), Shetland (Sumburgh) and Lewis (Stornoway).

Glasgow Prestwick Airport has frequent flights to 33 destinations including Gothenburg, Oslo, Brussels, Rome and Milan.



National and Local Government Backing & Support

RIVERSIDE INVERCLYDE, URBAN REGENERATION COMPANY

Scotland's First Minister Alex Salmond stated, "Achieving our (renewable energy) ambitions requires a strong partnership between Government, industry and the wider public sector". In Inverclyde, Riverside Inverclyde is at the heart of such a partnership and has the backing of the Scottish Government. In dealing with Riverside Inverclyde as an Urban Regeneration Company, advantages are already in place with the focus on economic growth, public sector leverage, government support, attracting funding and using local expertise and assets.

For further information, please call Riverside Inverclyde on +44 (0)1475 755080 or visit: www.riversideinverclyde.com

LOCAL GOVERNMENT SUPPORT

Through the provision of its business grants and loans scheme, Inverclyde Council aims to support small to medium enterprises in the area to develop and grow their operations through investment and training. The aim is to encourage these businesses to consider the introduction of innovative projects and processes which will enable their business to raise its level of competitiveness and efficiency. The portfolio of available support includes: Business Training Support; Property Assistance Scheme; Small Business Assistance Grant; Small Business Loan Scheme; West of Scotland Loan Fund Ltd.

For any enquiries regarding business grants and loans, please contact Economic Development at the Business Store in Cathcart Street in Greenock, telephone 01475 715555 or email: eds.enquiries@inverclyde.gov.uk

REGIONAL SELECTIVE ASSISTANCE (RSA GRANT)

RSA is the main investment grant scheme for businesses in designated areas of Scotland ('assisted' areas) and Inverclyde is within such a designation.

FOR LARGE BUSINESS up to 15% available
FOR MEDIUM BUSINESS up to 25% available
FOR SMALL BUSINESS up to 35% available

Businesses, whether Scottish owned or headquartered outside Scotland can apply.



riverside inverclyde

Inverclyde is well-suited to encourage the location of renewable energy companies, boasting excellent existing facilities with its ports, yards, shipbuilding, new office space and land platformed for development. It offers easy access to the Scottish Territorial Waters Offshore Wind locations on its west coast, via the range of well-connected parts and nearby airports. The Inverclyde area also offers access to a ready supply chain for the renewables sector, with strong legacy engineering and manufacturing skills from the Clyde shipbuilding industry and Inverclyde's IT expertise from companies such as IBM and National Semiconductor.

Additionally, there is a strong composites sector clustered around Glasgow Prestwick Airport. The Inverclyde area, close to Glasgow Airport and only 20 miles from Hunterston, has been identified in Scotland's National Renewables Infrastructure Plan and is a strategic west coast location which is ideally placed with its deep water access, port facilities and Grade A business accommodation to meet the expectations and demands of the Renewables Industry sector.

For further information, please call: +44 (0)1475 755080 or visit www.riversideinverclyde.com

