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**Amarinth supplies water recirculation pumps to Masdar
in Abu Dhabi to service its ‘green city in the desert’**

Amarinth, a leading company specialising in the design, application and manufacture of centrifugal pumps and associated equipment to the Oil & Gas, petrochemical, chemical, industrial and renewable energy markets, is leveraging the knowledge from its carbon reduction pump project to supply new pumps into Masdar City in Abu Dhabi, the world’s most sustainable eco-city.

Masdar City is successfully pioneering a “greenprint” for how cities can accommodate rapid urbanisation and dramatically reduce energy, water and waste. It also plays an integral role in transforming Abu Dhabi’s economy from an oil foundation to a knowledge-and-innovation base by serving as a centralised test bed for global renewable-energy and technology companies.

When Masdar City required pumps for its water recirculation system it needed to best utilise the clean energy generated onsite from roof top solar panels and one of the largest photovoltaic installations in the Middle East. Masdar approached Amarith who, for the past two years, have been working on the design and production of energy efficient pumps aided by a grant from the United Kingdom’s innovation agency, the Technology Strategy Board, and saw Masdar City as an opportunity to put the knowledge gained into practice.

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To deliver energy savings in pumps, Amarith has been developing a cost effective and rapid process for the design and manufacture of bespoke best efficiency point (BEP) optimised impellers that can be produced on short lead times and at an acceptable commercial cost for use in industrial pumping applications. The centrifugal pumps used throughout industry are often a 'best fit' selection for a given application from a standard range of pumps and the majority of pumps in use today do not run at their BEP and energy inefficiencies of up to 25% can often be found. When 95% of pump life cycle costs are energy costs this represents a huge saving.

To meet the needs of Masdar City, Amarith used its reliable and proven C-Series pump as a base unit and then working with the Masdar project team Amarith has leveraged the learnings from its energy efficient pumps project to design the most suitable solution for Masdar City whilst still delivering within the required 18 week timescale.

Oliver Briggishaw, Managing Director of Amarith, commented: "Masdar City has provided us with a unique opportunity to showcase the work we have been doing to provide energy efficient pumps at a commercially acceptable cost and timescale. We are looking forward to working closely with Masdar City on the project and learning further from it so that we can bring this technology to all businesses around the world. Studies we have undertaken have shown that being able to provide optimised impellers for a specific duty will reduce annual CO₂ emissions in our target markets by 17,000 tonnes by 2020 and 110,000 tonnes by 2050."

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OPTIONAL PANEL or BOX ITEMS



Central Courtyard in Masdar City



Central Courtyard and Wind Tower in Masdar City

NOTES TO EDITORS:

Founded in 2002, Amarith has harnessed the skills, creativity and passion of people who have worked in the pump industry for many years. Amarith delivers world-leading expertise in the design, application and manufacture of centrifugal pumps and associated equipment to ISO, ANSI & API standards, primarily for the industrial, chemical & petrochemical markets. Their portfolio includes:

- **Pumps:** Horizontal and vertical API 610 pumps, chemical and industrial pumps, many of which are interchangeable with the Girdlestone pump ranges, eliminating the need for expensive modifications when replacements are required.
- **Pressure Vessels:** Protect System Plan 52 and 53A and 53B sealant systems with inbuilt condition monitoring for pumps and mixers that are suitable for Safe area up to Zone I.
- **Spares & Service:** High quality, fast lead-time re-engineered spare parts to improve performance and extend pump life, including many which are directly interchangeable with the Girdlestone pump ranges.
- **Packages & Modules:** Condensate Recovery Units manufactured for Spirax Sarco incorporating the innovative Ci-Nergy intelligent variable speed control system, plus bespoke packages & skids built to order.
- **Business Systems:** state-of-the-art e-commerce technologies that deliver 24/7 support enabling customers to select pumps and place orders on-line and then track every stage of manufacture through to delivery, any time, anywhere in the world.

The company operates globally from its base in Rendlesham Suffolk, United Kingdom and has a customer base of world-leading companies, including BP, Shell, ExxonMobil, GlaxoSmithKline, Pfizer, Spirax Sarco, Diageo, AMEC, Fluor and Halliburton.

For further information, electronic copy or photos contact:

Comment:

Alex Brigginsshaw
Business Development Director
Amarinth Limited
Bentwaters Park
Rendlesham
Woodbridge IP12 2TW
United Kingdom

Tel: +44 (0)1394 462131
Mobile: +44 (0)7971 506 994
Alex.Brigginsshaw@Amarinth.com

Media Relations:

Phil Harland
B6 Solutions Limited
29 Swan Drive
The Wharf
Aldermaston
Reading RG7 4UZ
United Kingdom

Tel: +44 (0)118 971 3790
Mobile: +44 (0)7880 748380
Phil.Harland@B6solutions.com

Amarinth can also be reached on its website: www.amarith.com.

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