



<b>Project Name (2):</b> Lillgrund Offshore Wind Park		<b>Country:</b> Sweden
<b>Project Location Within Country:</b> Øresund south of Saltholm		<b>Professional Staff Provided:</b>  <b>No. of Staff:</b> 1
<b>Name of Client:</b> Vattenfall AB		<b>No. of Person-Months:</b> 22
<b>Start Date:</b> 2005-02-01	<b>Completion Date:</b> 2008-01-31	<b>Approx. Value of Services:</b>
<b>Name of Associated Firm:</b> None		<b>No. of Person-Months of Professional Staff Provided by Associated Firms::</b>
<b>Senior Staff Involved and Functions Performed:</b> Project Manager Foundations		
<b>Detailed Narrative Description of Project &amp; Services:</b>  The Lillgrund Offshore Wind Farm is owned by Vattenfall Vindkraft AB and comprise of 48 Wind Turbine Generators with a total rated power of 110 MW (48 @ 2.3 MW), 48 WTG Foundations of the Gravity Base Structure type, 48 Inter Turbine Seacables, 1 Offshore High Voltage Substation (OHVS), 1 Gravity Base Structure type for the OHVS, 1 Export Seacable, 1 Export Onshore Cable.		
<b>Technical Data:</b> <ul style="list-style-type: none"> <li>• Start Contracting Phase: February 2005</li> <li>• Start Construction: July 2006</li> <li>• Finish Construction: December 2007</li> <li>• 48 Siemens 2.3 MW Mk II variable speed version Wind Turbine Generators</li> <li>• Water Depth: 10 m</li> <li>• Distance to shore: 7 km</li> <li>• Distance between WTG: 300 m and 400 m</li> <li>• Surface area: 7 km<sup>2</sup></li> <li>• Annual Power Production: 330 GWh</li> <li>• Tidal range: 1 m</li> <li>• Soil conditions: Sand, Clay and Limestone</li> <li>• WTG Foundation Types: Concrete Gravity Base Structures (GBS) with a lift weight up to 1,375 MT and a ballast weight of 900 MT with internal HDPE J-tubes including scour protection</li> <li>• Offshore High Voltage Substation (OHVS): Circular space frame module weighing 520 MT equipped with one 120 MVA transformer (33kV/138kV) and other M&amp;E equipment</li> <li>• OHVS Foundation: Concrete Gravity Base Structure with a lift weight of 1,200 MT having a steel Transition Piece (a cylindrical shell) and internal HDPE J-tubes.</li> </ul>		



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<ul style="list-style-type: none"><li>• Installation of GBS Foundations: Pre-excavation, Levelled Incompacted Stone Bed, Lifting, Stone Ballasting and Scour Protection</li><li>• Seacables installed in a pre-excavated trench</li></ul>	
<b>Services provided:</b> <ol style="list-style-type: none"><li>1. Preparation of Enquire Documents for the Design, Certification, Fabrication, Construction and Installation of the WTG Concrete Gravity Base Structure Foundations as well as the same for the OHVS (the Foundation Works)</li><li>2. Technical and Financial evaluation of the received Tenders for the Foundation Works</li><li>3. Contract Negotiation with the preferred Tenderers of the Foundation Works</li><li>4. Closing and writing parts of the entered Foundation Works Contract based on a bespoke contract form</li><li>5. Management of the Foundation Works Contract</li><li>6. Managed a team of five Quality Control Engineers working in Sweden, Denmark and Poland</li><li>7. Management of Marine Warranty Surveyor</li><li>8. Operation of Claim Management Activities.</li></ol>	