



**GRIDIN'S
GROUP**

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PRODUCTION OF STEEL CONSTRUCTIONS for wind energy sector

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Wikinger:

Primary steel structure production of the wind power generators' foundation (Transition Pieces) for the offshore wind farm in the Baltic Sea - the Wikinger Offshore Wind Farm.

Owner of the wind farm:

„Iberdrola Renovables Offshore Deutschland GmbH“

The production of the structure was ordered by:

„Bladt Industries A/S“

Scope of the project:

41 steel structures were produced;
Weight of one TP - 145 tons;
Delivery schedule of the end products –
one TP every 6 calendar days.

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Beatrice:

Primary steel structure production of the wind power generators' foundation (Transition Pieces) for the offshore wind farm in the North Sea – the Beatrice Offshore Wind Farm.

Owner of the wind farm:

„Beatrice Offshore Windfarm Ltd.“ (BOWL)
Scottish & Southern Energy
Copenhagen Infrastructure Partners (CIP)
Red Rock Power Limited

The production of the structure was ordered by:

„Bladt Industries A/S“

Scope of the project:

30 steel structures were produced;
Weight of one TP - 150 tons;
Delivery schedule of the end products –
one TP every 6 calendar days.

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Management and technical support:

The project management team included 25 specialists (Engineering -Technical specialists from Gridin's Group) who effectively and efficiently solved all the technical issues related to the planning of work, its timely completion as well as the production itself and other equally important issues.

Full participation at all stages of the project:

- support in design (practical implementation consultancy);
- continuous contact with the customer;
- project management;
- complete engineering;
- risk analysis, mitigation plan and method statements;
- preparation of the HSE plan;
- elaboration of all necessary WPQR and WPS;
- traceability procedure for materials, parts, components, end products
- QA & QC for all stages of the project;
- full range of NDT control with all necessary reporting to the Client;
- full welding traceability;
- strict compliance to manufacturing tolerances and dimensional control;
- preparation of full package of delivery documentation according to the offshore standards.

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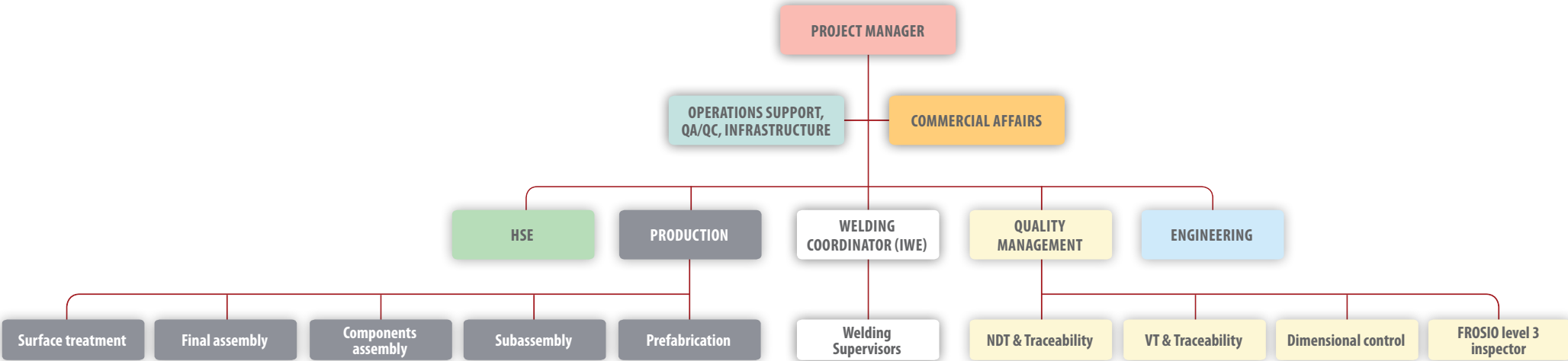
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Projects organisation chart:





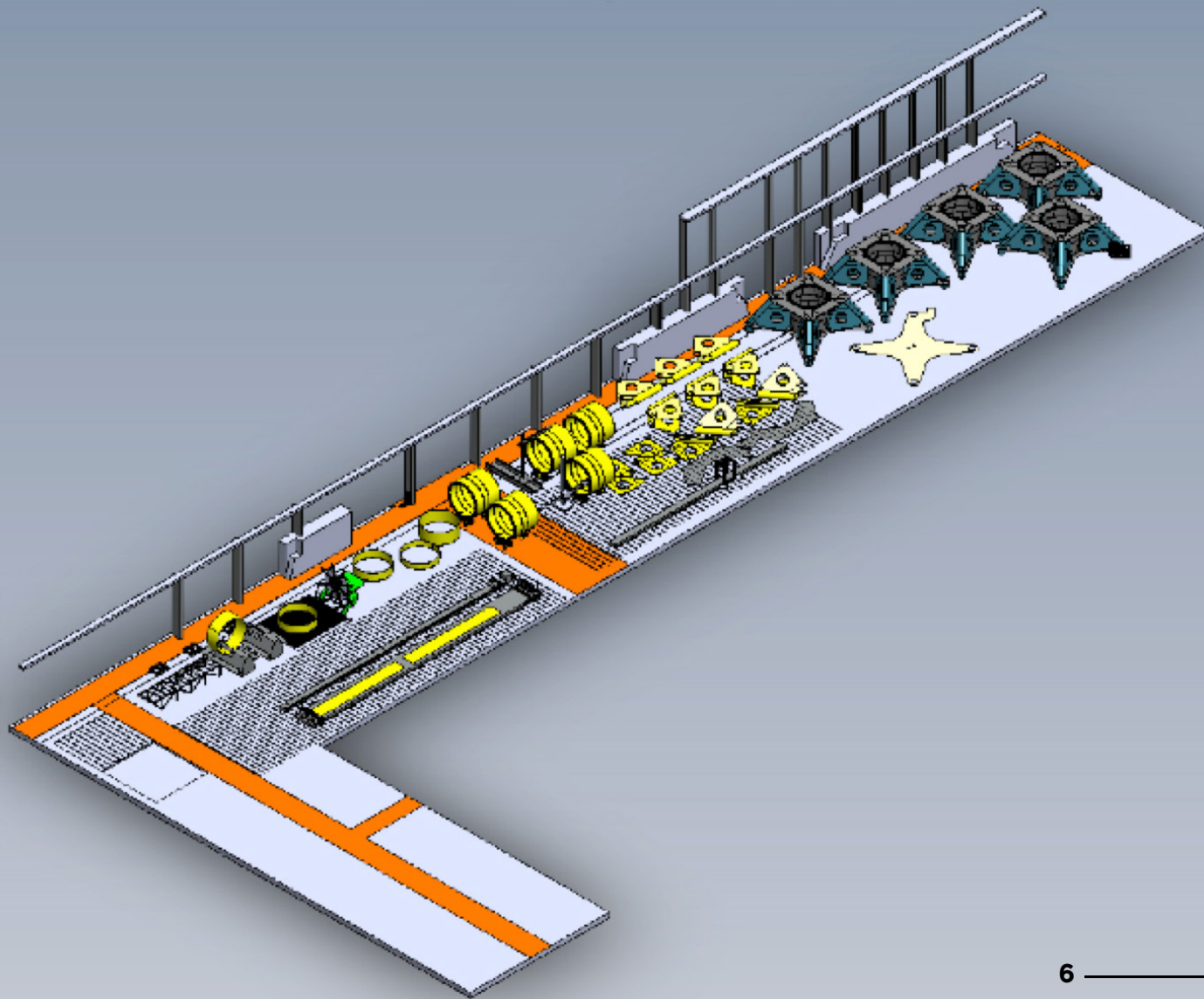
Layout for fabrication

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Scope of work:

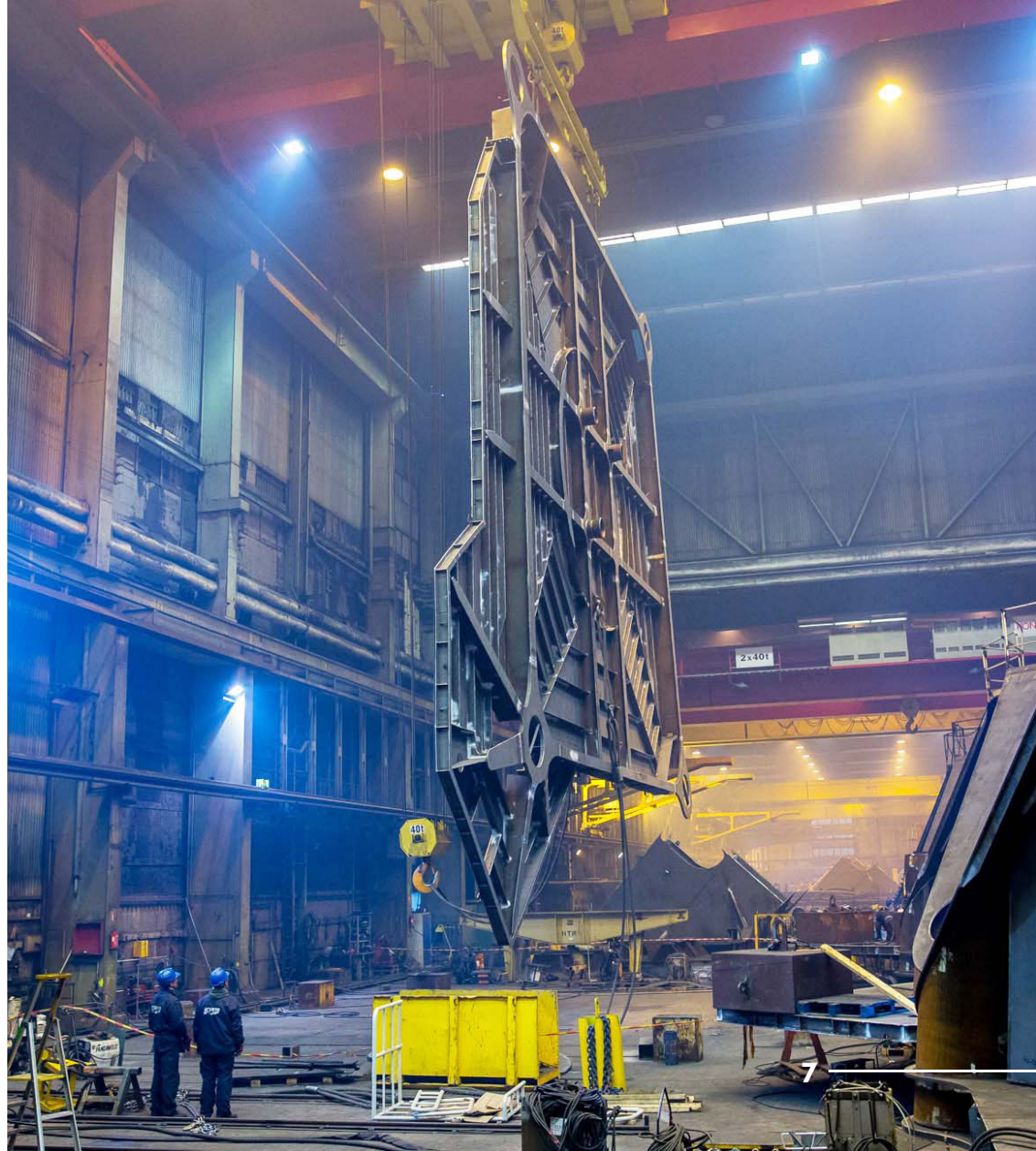
- pre-fabrication;
- semi-ring rolling for CAN;
- subassembly and welding;
- assembly and welding of components;
- assembly and welding of the constructions;
- secondary steel production and outfitting;
- full range of NDT control (VT, MT, UT and X-Ray);
- mechanical processing of the wind generators' connecting flange;
- surface treatment;
- metallization;
- painting;
- marking.

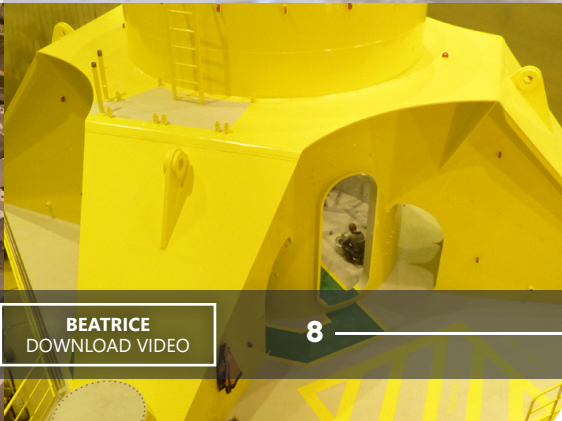
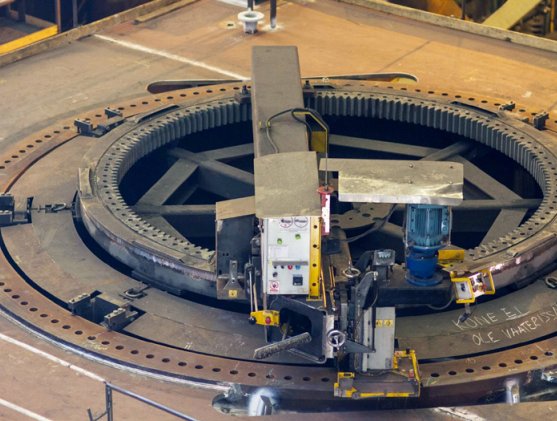
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Technical Performance:

On average, there were about 120 specialists (80% specialists from Gridin's Group and 20% subcontractors of Gridin's Group) involved in each project in the following occupations:

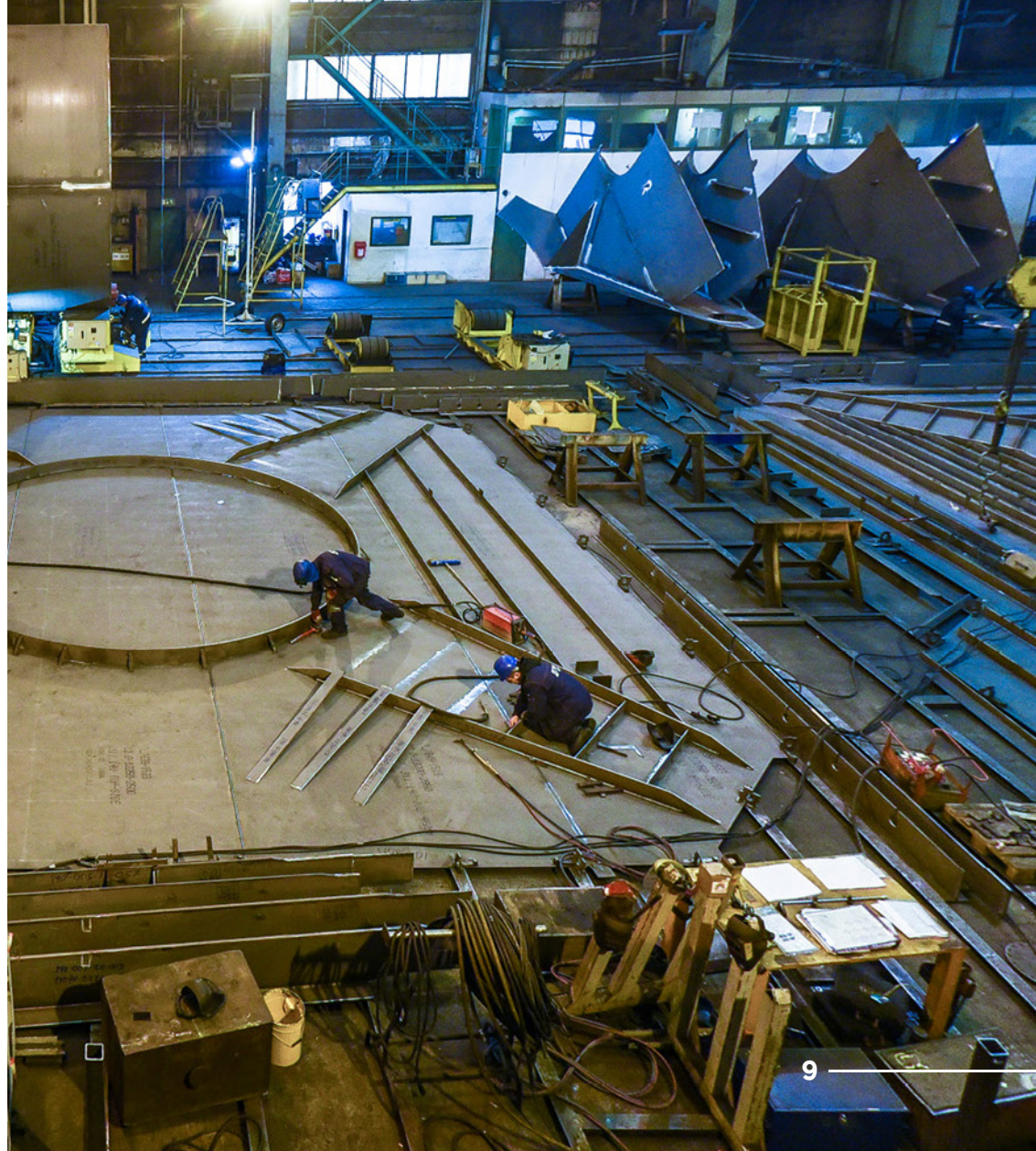
- machine cutting operators;
- latch and mill machine operators;
- bending and rolling machine operators;
- steel fitters;
- welders;
- grinders;
- riggers and slings men;
- gaugers;
- sandblasters;
- painters;
- scaffolders.

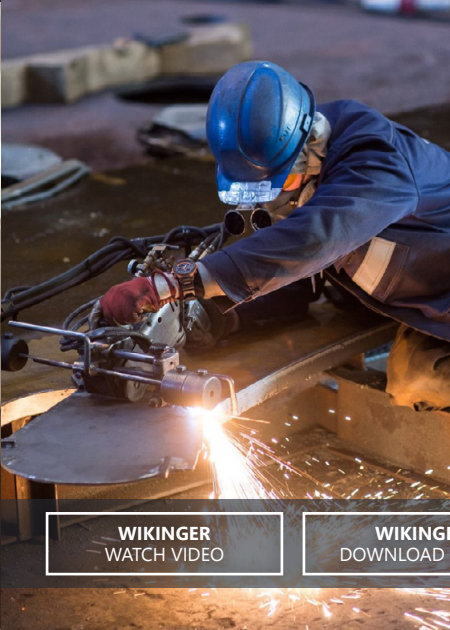
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