The ambition of our pioneering Fast4Ward® program is to transform the business by reducing cycle time to energy delivery, de-risking projects and improving quality and safety.
The key benefits of Fast4Ward® are reducing cycle time to energy delivery, de-risking projects and improving quality and safety. This adds value for clients and in particular improves the economics of deepwater projects. To achieve this we have leveraged SBM Offshore’s experience to standardize the design and the execution of projects, facilitating repeatability and the knock-on benefits. In addition, Fast4Ward® incorporates digital solutions and emerging technologies, allowing for continual advancements of our solutions.

**The Fast4Ward® program is built on a number of key principles:**

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<th>CLIENT FIRST</th>
<th>STANDARDIZATION</th>
<th>FLAWLESS EXECUTION</th>
<th>INTEGRATED SUPPLY CHAIN</th>
<th>DIGITAL SOLUTIONS</th>
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<tr>
<td>Early engagement with clients. Fast-tracking projects to first oil/gas.</td>
<td>A standard hull and topsides catalogue</td>
<td>Delivering on time and within budget (up to <strong>12 months faster</strong>)</td>
<td>Development of strategic partnerships</td>
<td>Digital Twin and preventive maintenance</td>
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</table>

**Basis of design**

A design that fits a wide market, with the flexibility to be tailored to the specific needs of a project.

- **100% new-build hull:** 30-year design life
- **+ 13%** deck space compared to VLCC and 30% more topsides footprint overall with continuous pancake architecture - to accommodate up to ~ **50,000 tonnes** of operating topsides (subject to field specifics) and future tie-backs
- **Up to 2.3 million** barrels storage
STANDARDIZATION

Standardizing the company’s floating production solutions provides knock-on savings in the supply chain and construction phases, resulting in a reduction in delivery time. Shorter cycle times mean that financial gains start earlier for operators. Furthermore, standardization results in overall lower CAPEX and better use of time to dedicate to safety and quality related activities.

Technical standards

Designs for floating production systems based on Fast4Ward® are underpinned by SBM Offshore’s Group Technical Standards (GTS). Introduced in 2003, they draw on the expertise and lessons learnt from a delivery portfolio of more than 50 floating production systems and over 320 years of operating experience.

Multi-Purpose Floater (MPF)

Whilst acknowledging that a fully standardized FPSO is not possible, owing to the different needs of every field development, SBM Offshore found there were many opportunities to create an FPSO with standardized layouts, components, and equipment whilst also accommodating bespoke features. The Multi-Purpose Floater (MPF) is the result.

Basic Design Approval has been given by both Bureau Veritas and ABS. The design fits a wide market, with the flexibility to be tailored to the specific needs of a project.

The MPF is suitable for internal turret, external turret or spread moored configurations

MULTI PURPOSE FLOATER (MPF) EXECUTION STRATEGY

APPROACH: Design one, build many. Hull = commodity

BACK TO BASICS: Shipbuilding philosophy + SBM Offshore specific requirements

GENERIC HULL: Ready to integrate topsides modules and mooring system

NEEDS: Only one quayside and a floating crane for module integration
Topsides:

More space on hull facilitates lowering the modules for better access for maintenance, while improving safety.

Modularization

The key to an optimal layout is modularization and through standardization SBM Offshore can accelerate not only the design process, but also the supply chain and construction phases. The modular approach allows maximum interchangeability of the modules depending on each project's needs, without disrupting the overall functionality. To maximize the time and cost-saving opportunities, SBM Offshore is able to capitalize on standardization by leveraging its experience in the design, construction and operation of over 35 FPSOs.

A catalogue of topsides solutions

There are two main module categories: generic modules, which can be highly standardized, regardless of the project specifics; and bespoke modules, which can be 'conceptually' standardized then tailored to suit the specific crude oil characteristics and processing requirements. All modules are standardized in structural design and footprint, with bespoke modules standardized conceptually in terms of equipment and piping layout, then tailored to suit the specific field characteristics and processing requirements. The catalogue has around 70 standard modules.

The module design is derived from modules already in use on SBM Offshore’s operating FPSOs and gives flexibility to be scaled up or down to suit the production requirements. Differences in oil characteristics, capacity or pressure ratings can influence individual (bespoke) modules, but this can be accommodated with minimal impact on the overall layout. Clients can choose topsides from a catalogue for inclusion on the hull - without the need for any structural modifications, which is a major contributor to the fast-track element of Fast4Ward®.

DIGITALIZATION will be a key contributor to the success of Fast4Ward®, leveraging experience from operations in our future designs & projects. SBM Offshore has been running pilots in Dynamic Asset Optimization and is making progress on further digitalization across the different steps in the EPC phase.