

MARKET OPPORTUNITY

Singapore



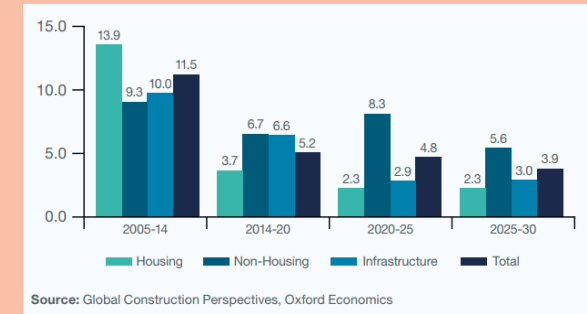
OVERVIEW

- Singapore's ranks 2nd in the Global Competitiveness Index, reflecting its commitment to infrastructure quality. Public investments in transport and non-residential infrastructure scheduled up to 2025 will strongly support construction activity.
- Singapore's Ministry of National Development (MND) is chiefly responsible for national land use planning and development. MND oversees and works with statutory boards like Building Construction Authority (BCA), Housing and Development Board (HDB) and Urban Redevelopment Agency (URA) for development planning.

Key Business Opportunities for EU Companies

1. With products, technologies and services specialised in or that add value to **Design for Manufacturing & Assembly (DfMA)** as part of the Construction Industry Transformation Map (ITM) 2017. Singaporean firms seek European partners within three main areas of opportunity: (a) upfront design for ease of manufacturing and assembly, (b) highly automated offsite production facilities and (c) efficient and clean on-site installation process.
2. With products, technologies or services towards designing green buildings or sustainable practices in operations and maintenance. Increased focus on **Green Building and Infrastructure** as part of efforts to tackle climate change has led to strong collaboration opportunities in this area.
3. Providing **Integrated Digital Delivery (IDD)** or processes that are enabled through Building Information Modelling (BIM), where IDD is fully integrated in processes and stakeholders along the value chain through advanced ICT and smart technologies.
4. Delivering products, technologies and services for the construction of **public infrastructure** such as **transport and non-residential infrastructure** projects. Large city redevelopment plans are scheduled in the government pipeline, with investments committed up to 2025.

Sector Characteristics



Output Forecast for Singapore's Construction Industry

- Three main sectors: housing, infrastructure, non-housing
- Between 2005-2014 development was focused on the housing sector to meet high and growing demands for affordable housing options. Subsequent demand for non-housing and infrastructure needs will drive investment until 2025.
- Singapore's next steps focus on digital transformation and the "greening" of the construction industry to address rapid urbanisation and climate change. This is outlined in the Construction Industry Transformation Map, one of 23 ITMs under a SGD 4.5 billion (EUR 2.91 billion) Industry Transformation Programme mooted by the Singapore's Future Economy Council.

Sources:
 Ministry of Development, Singapore
 Industry Transformation Map 2017, Building and Construction Authority Singapore

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CONSTRUCTION &
BUILDING
TECHNOLOGIES

Key Players in Construction

Company	Rev (€)
1 Keppel Corporation Ltd Real-estate, Ship and Boat Building	4.09bn
2 Yuexiu Property Company Limited Real-Estate, Construction of Buildings	3.29bn
3 City Developments Ltd Accommodations, Real-Estate, Construction of Buildings	2.53bn
4 Guocoland Limited Residential Building Construction, Land Subdivision	0.95bn
5 Hi-P International Ltd Plastics Product Manufacturing, Fabricated Metal Product Manufacturing	0.92bn

Major infrastructure projects in the pipeline

Railways

- Jurong Region Line
- Cross Island Line
- KL-Singapore High Speed Rail

Roads

- North-South Corridor Expressway

Healthcare

- Woodlands General Hospital
- Sengkang General and Community Hospital

Airports

- Changi Airport Terminal 5

Case studies in Singapore



NEWater

- Ultra-clean, high-grade reclaimed water
- Uses advanced membrane technologies
- NEWater quality surpasses drinking water standards set by World Health Organisation and United States Environmental Protection Agency



National Library Building

- Internationally-acclaimed green building
- Deployment of various innovative green features for energy-efficiency



Marina Barrage

- Testament to Singapore's forward vision
- Designed, constructed and operating on green principles
- A unique 3-in-1 project:
 - Singapore's first reservoir in the city centre
 - Alleviates flooding in low-lying city areas
 - Lifestyle attraction



Public Transportation

- People-centred land transportation system
- Seamless transfers from covered walkways to buses and Mass Rapid Transit systems
- Increased usage of CNG vehicles
- Technically intelligent and user-friendly