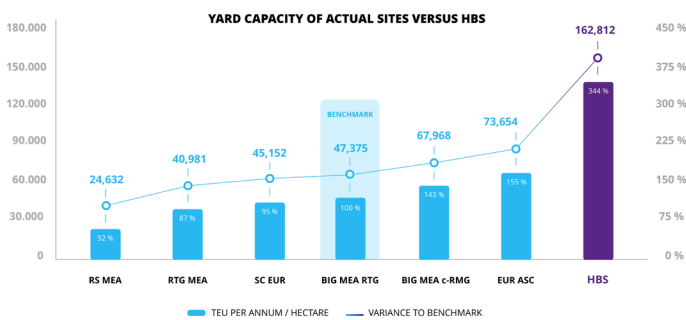


BOXBAY AT A GLANCE

# BOXBAY REVOLUTIONIZES CONTAINER STORING IN PORTS



BOXBAY is an international joint-venture formed by global trade enabler DP World and industrial engineering specialists SMS group and is offering different solutions for container storing and handling by means of High Bay Storage (HBS) systems - a technology that significantly improves operations at container terminals.

BOXBAY gives the answer to the growing volume of goods traffic in sea ports and presents an opportunity to significantly increase supply chain **decarbonization**. A BOXBAY High Bay Storage system offers an **eco-friendly** solution. It sets new standards in **storage capacity, performance**, and the **digitalization** of ports.

Instead of stacking containers directly on top of each other BOXBAY places each container in an individual rack, making each **directly accessible at any time**. The storage capability of the terminals is enhanced by stacking containers as high as **11 tiers**.

## MAJOR CHALLENGES IN PORT OPERATIONS:



- › Growing worldwide trade and **container traffic**
- › **Increasing size** of container vessels
- › **Congested ports**
- › Unexpected **disruptions**
- › **Environmental regulations**
- › **Scarcity** of skilled labor
- › **Limited flexibility** to react

## BOXBAY BENEFITS AT A GLANCE:



BOXBAY offers fast, smart and green solutions for the port of the future

- › **Modular** and fully scalable
- › Massive **space savings**
- › Operational efficiency, **no re-shuffling**
- › **ULCS readiness**
- › **Optimization of CAPEX and OPEX**
- › **Digital readiness**



## Technical specifications



### FAST

- › **Direct container access at any time:** each container is stored in an individual compartment
- › **100 % utilization** is possible (vs. max. 70-80 % in conventional yards)
- › **Elimination of all unproductive moves**
- › **No shuffling or housekeeping** (vs. 30-60 % in conventional yards)
- › Performance is independent from utilization and thus predictable
- › Late runners, roll overs have no performance impact
- › **Truck turn around time well under 30 min**

### SMART

- › Highly reliable and performant **total automation system** from Level 0 to Level 3
- › Automation concept is **single source delivery**
- › HBS **digitalization package** mainly comprises:
  - › **Energy** distribution and management
  - › **Highly efficient** drive systems
  - › **Control and visualization**
  - › **Warehouse management** system (HBS TOS)
  - › **Business Intelligence** module
- › **Works with any TOS**

### GREEN

- › **Small terminal footprint** & outstanding sustainability
- › **No local CO<sub>2</sub> emissions:** with green energy supply even zero CO<sub>2</sub>
- › High **energy efficiency**
- › **Fully electrically driven** with power regeneration
- › **Solar power plant** on roof
- › **Noise suppressed** operation
- › **Lack of light pollution**
- › **Better public acceptance** in urban environments
- › **Green wall cladding** possible

### Contact details

info@boxbay.com  
www.BOXBAY.com

THE FUTURE IS VERTICAL  
EXPLORE NOW

