



net **zero**
EMISSIONS
The future is NOW



Long Beach
Container
Terminal



Terminal Particulars

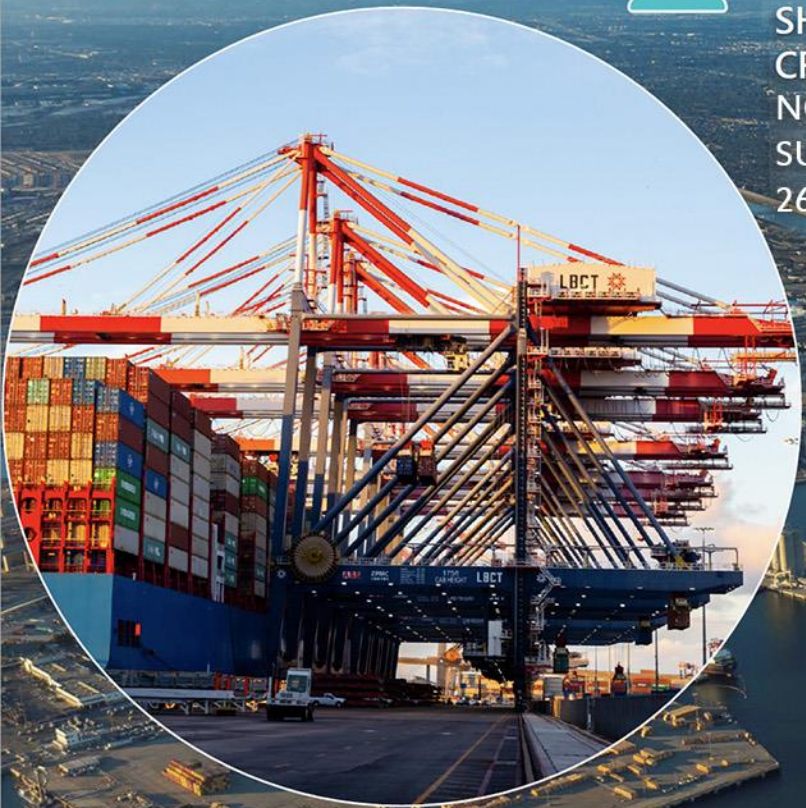
- ✱ 304 acres, or 123 hectares
- ✱ Annual throughput capacity 3.3 MTEU
- ✱ Three large berths – 4250', or 1,295m of total wharfline
- ✱ 76'/23m channel draft – 60'/17.76m alongside
- ✱ Storage capacity 73,000 TEU
- ✱ Intermodal – 48,000' or 14,631m of track, maximizing LBCT on-dock rail capacity.
- ✱ Two gate complexes (28 in lanes/17 out lanes)
- ✱ 2250 grounded reefer plugs
- ✱ Cutting Edge Operating Systems - Navis N4, TEAMS, ABB



EQUIPMENT:



18 ALL ELECTRIC SHIP TO SHORE DUAL HOIST GANTRY CRANES: LARGEST IN NORTH AMERICA & SUFFICIENT FOR VESSELS 26 CONTAINERS WIDE



70 AUTOMATED STACKING CRANES (ASC)



6 INTERMODAL RAIL-MOUNTED GANTRY CRANES (RMG)



102 AUTOMATED GUIDED VEHICLES (AGV)



CUTTING EDGE CONTAINER HANDLING SOFTWARE



LBCT's Top Digital Needs

- ✿ Yard Decking and Utilization
- ✿ Appointment Management
- ✿ Maintenance and Repair
- ✿ API's to interface with trucking companies and BCO's
- ✿ Cyber





Key Decisions on Tools

- ❖ Tools cannot impact performance of production systems
- ❖ Tools which can analyze complex data
- ❖ Tools enhance the workforce, not replace the workforce
- ❖ Tool output results must be explainable
- ❖ Can the tool be developed in house or purchased from a 3rd party





Success Stories and Current Projects

Success Stories

- Development of API's
- Development of Appointment System
- High utilization of emulations
- High utilization of Splunk
- Cyber tools which use AI

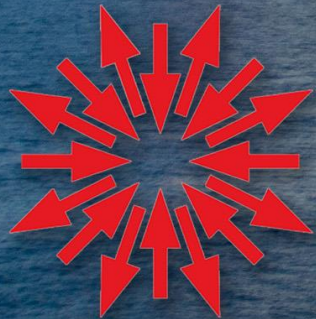
Current Projects

- Avlino to enhance appointments and yard
- Creating a digital twin of data in the cloud



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