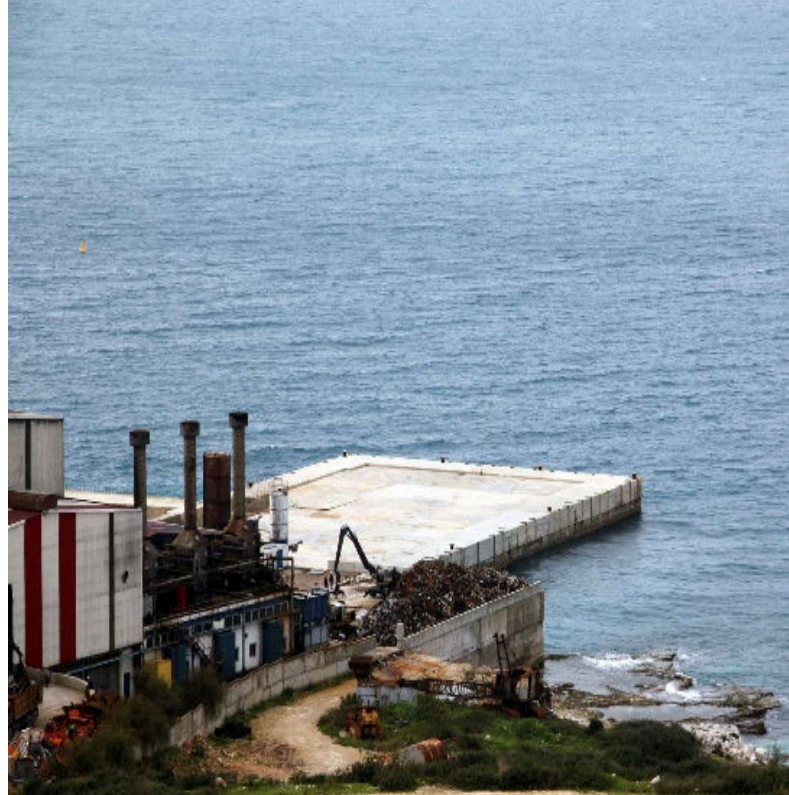
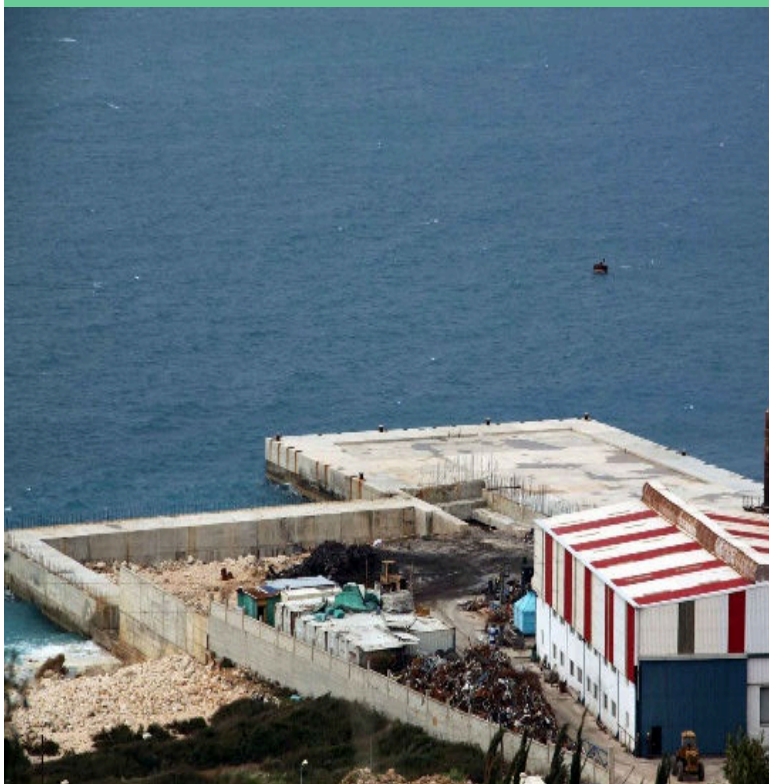




INDUSTRIALS PORTS

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SUPERVISING EXPERTS AND TECHNICAL ENGINEERING CONSULTANTS SINCE 2000

/ ABOUT US /

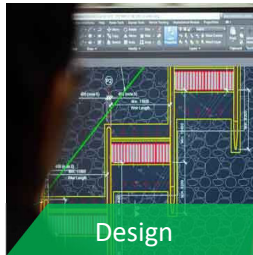
SEATEC provides its clients with design and supervision services in coastal and port engineering, covering surveying, site investigation, tender and detailed design, numerical modeling, feasibility and EIA studies, permitting, construction planning, management and supervision.

Serving public as well as private sectors in Lebanon and abroad since 2000, **SEATEC** is dedicated to give its clients the best engineering assistance.



OUR SERVICES

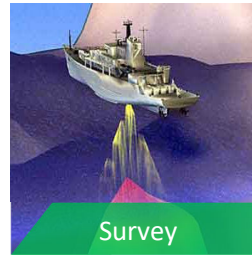
SEATEC IS COMMITTED TO PROVIDING ITS CLIENTS
WITH THE BEST ENGINEERING SERVICES COVERING THE FOLLOWING:



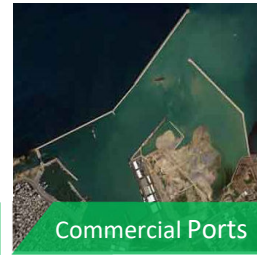
Design



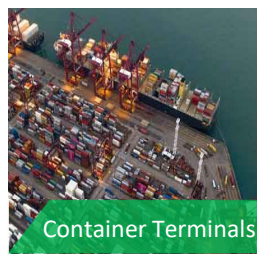
Supervision



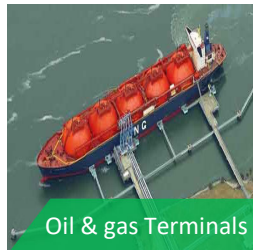
Survey



Commercial Ports



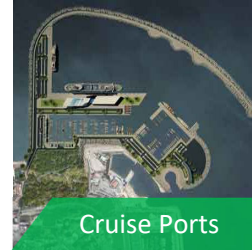
Container Terminals



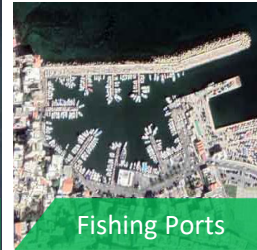
Oil & gas Terminals



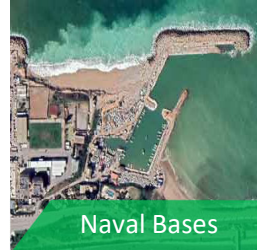
Industrial Ports



Cruise Ports



Fishing Ports



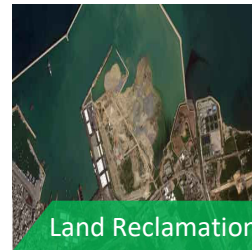
Naval Bases



Marinas



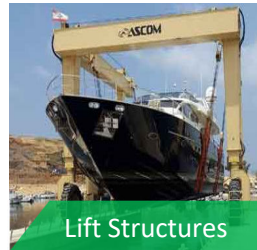
Coastal Protections



Land Reclamation



Waterfronts



Lift Structures



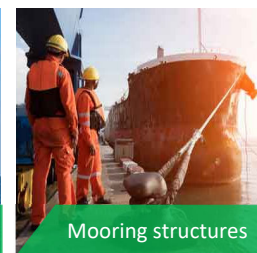
Marine Outfalls



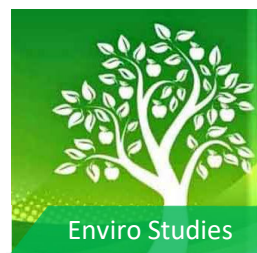
Subsea pipelines



Dredging



Mooring structures



Enviro Studies

Industrial Ports - SEATEC scope

• DESIGN

- Conceptual, Tender and detailed design
 - o Port overall layout
 - o Dredging plan
 - o Berthing configurations
 - o Navigation plan (ATON)
 - o Port structures (Breakwaters - quay walls - platforms)
 - o Facilities within the marina (Lift / hoist facility - slipway - fueling station)
 - o Vehicules circulation / parking
 - o Landscaping
 - o MEP (Electrical and water supply, power pedestals...)
 - o Feasibility studies
 - o Detailed drawings
 - o Tender documents, technical specification and BOQ
 - o Assistance of Client in bidding procedures
 - o 3D views and animation
- Modeling
 - o Numerical modeling of deepwater and nearshore waves and basins disturbances
 - o 2D/3D physical modeling and collaboration with international companies
- EIA / Permitting
 - o EIA studies
 - o Permits follow up

• SURVEY

- Topographic survey
- Bathymetric survey (multi beams echo sounding)
- Underwater inspection (diving, underwater pics and videos, sampling, assessment of existing structures conditions)
- Geotechnical investigation: Follow up on site of drilling and sampling operations (onshore and offshore)

• SITE SUPERVISION

- Follow up by SEATEC supervision team of works execution on site (daily presence)
- Instructions for contractors
- Inspection
- Approval of contractor payments

MPWT	: Ministry of Public Works and Transport
DGLMT	: Directorate General of Land and Marine Transport
DGRB	: Directorate General of Roads and Buildings
POTA	: Port Of Tripoli Authority
EDL	: Electricité Du Liban





INDUSTRIAL PORTS

- **REC NOR (LEBANON – CLIENT : Chamber of Commerce, Industry, Agriculture of Tripoli and North Lebanon)**

- Conceptual Design of a Land reclamation from Tripoli to Klayaat at Northern Lebanon, covering an area of 11,700,000m² along a coastal length of 20km, including the extension of the Tripoli port container terminal (Main quaywall @ -15.00m, L=1000m for container terminal (1,750,000m²), a LNG / oil and gas jetties/ zone, industrial, general cargo and mineral terminals zone, and the extension of the Klayaat Airport. (2019)

- **KFOURY METALS CO. PORT (SELAATA ILEBANON – CLIENT : KFOURY METALS CO.)**

- Design of an unsheltered quay wall @ -10.00m (L=50m) and 7.00m (L=200m) (Underwater concrete blocks @ -14.00m, underwater blasting and dredging, R.C. platforms. (2006 - 2007 - 2008 - 2009).
- Supervision of execution works. (2008 - 2009 - 2010 - 2011 - 2012 - 2013)

- **BASIN OF ZOUK POWER STATION (LEBANON – CLIENT : EDL)**

- Bathymetric survey of site and design of basin dredging. (2009 - 2013 - 2017 - 2018)
- Design of main breakwater rehabilitation works (Accropodes blocks, RC crown walls..). (2017)

- **DEMCO STEEL PORT (LEBANON – CLIENT : DEMCO STEEL)**

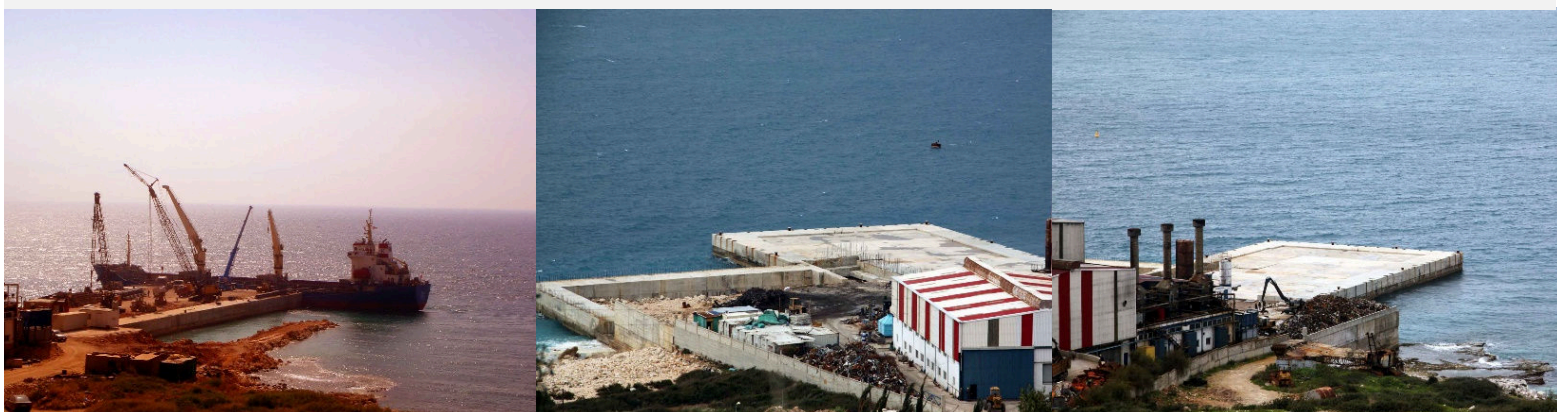
- Design of a new port with a main quay wall. (2012 - 2017)

- **BASIN OF JIEH POWER STATION (LEBANON – CLIENT : EDL)**

- Bathymetric survey of site, design and Supervision of basin dredging. (2009 - 2010 - 2011 - 2012)



KFOURY METALS CO. PORT



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THE END

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