

# INTRODUCTION OF

Tidfore Five Star Engineering Projects Pvt. Ltd.

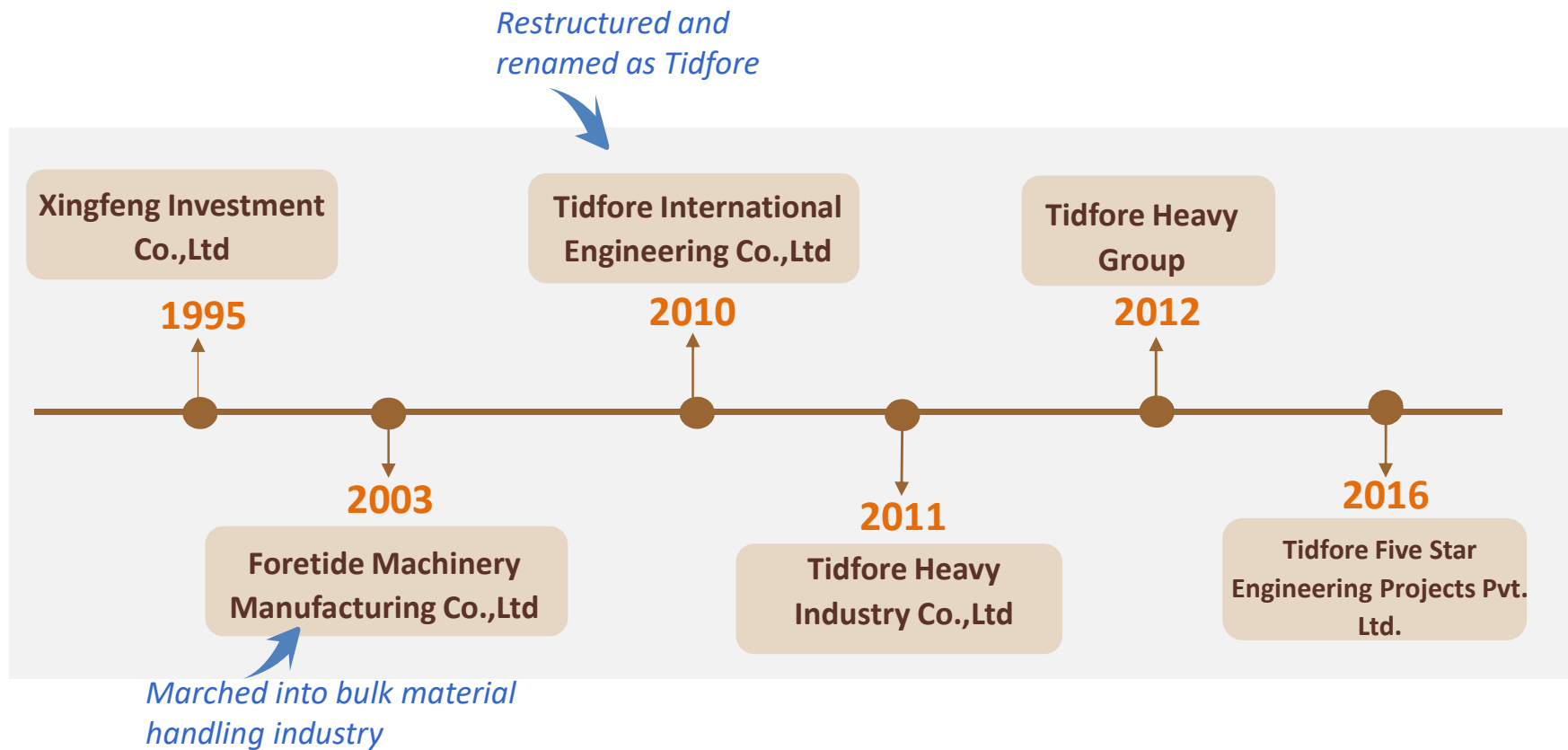
**TIDFORE**



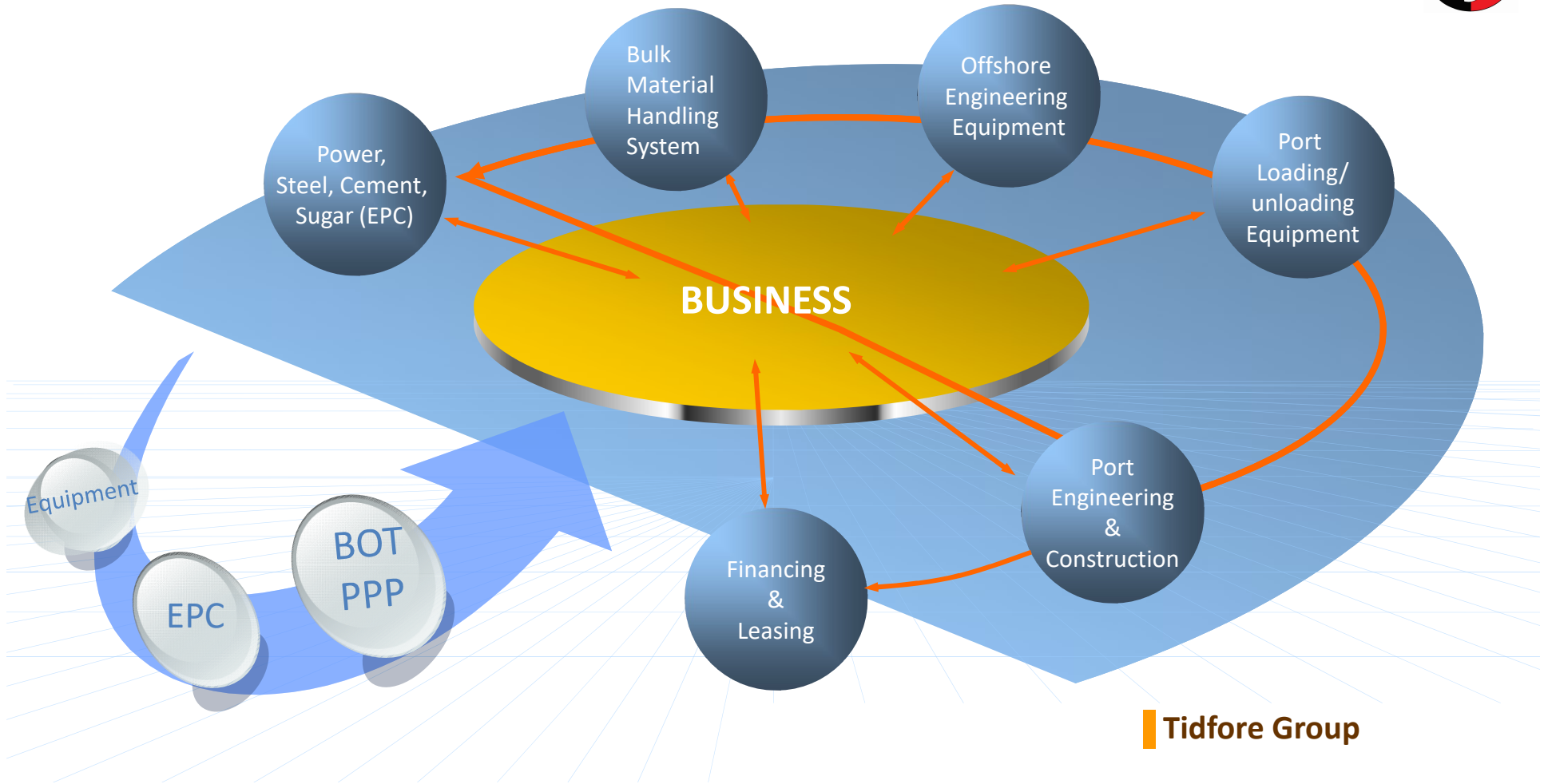
## Introduction



- **Tidfore Five Star Engineering Projects Pvt. Ltd.** is a Joint Venture Company between China's Equipment Manufacturing Giant, **Tidfore Heavy Equipment Group** and India's leading & established project execution enterprise, **Five Star Group**.
- We have a vision of executing various upcoming projects in India, South-East Asia and Africa for their leading Power, Steel, Cement, Sugar, Port and other utility Companies.
- The company is characterized by providing project engineering integrated services from design, engineering, research and development, manufacture, sales, installation, commissioning, after-sale service to financial leasing of complete engineering projects including bulk material handling system and port handling.
- **Tidfore Heavy Equipment Group** is mainly involved in advanced equipment manufacture, system general contracting, and supporting services supply of bulk material handling system, port and offshore engineering equipment.



**Business Portfolio**





**EPC Contracts**

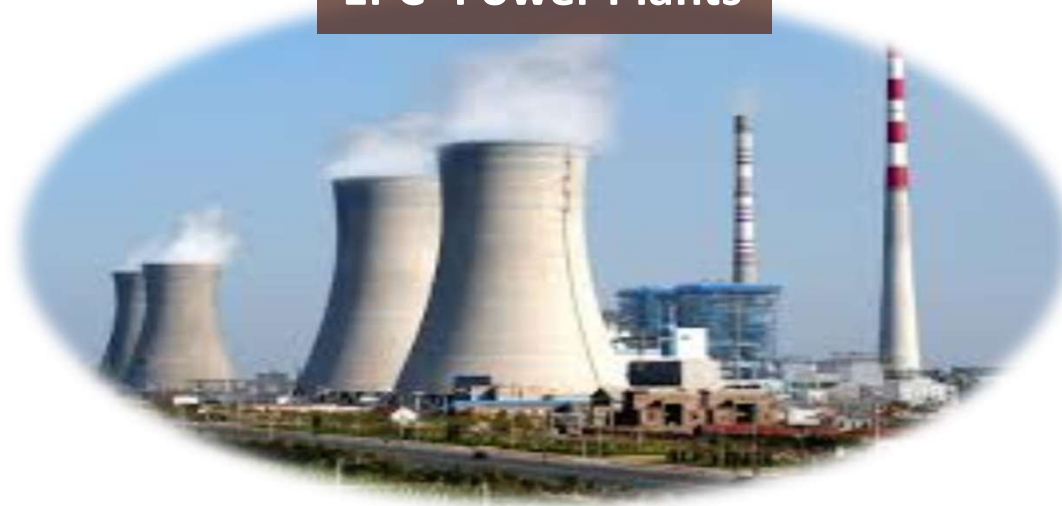
- Complete Power Plant Projects.** Main System includes Boiler Island, TG Island, Coal Handling Plant, Ash Handling Plant and Other Balance of Plants with associated Electrical and Control System
- Complete Cement Plant Projects.** Main System Includes Material Handling & Grinding System, Proportioning System, Mills, Storage Silo & Klin with associated Electrical and Control System
- Complete Steel Plant Projects.** Main System includes all types of furnace, Klin, Rolling Plant, Benefication Plants, Waste Heat Recovery System and Raw Material Handling Plant with associated Electrical and Control System
- Complete Sugar Plant Projects.** Main System includes Mills, Heaters, Evaporators & Dryers, Steam Generators and Material Handling System with all associated Electrical and Control System

**Bulk Material Handling System**

- Bulk Material Unloading, Loading & Processing System** in Mining, Steel, Power & Cement Plants. Main equipment includes wagon tippler, screw unloader, chain bucket unloader, crusher, screen, feeder, paddle feeders, bucket elevators, etc.
- Environment Friendly Stockyard System** which includes Stacking, Reclaiming, Feeding, handling, storage, separating and blending of Raw Materials & Fuels.
- Bulk Material Conveying System** in Mining, Steel, Power & Cement Plants which includes Belt Conveyors, Down hill Conveyors, Cross-country Pipe Conveyors and steep angle conveyors
- Port Handling** which includes Loading, Unloading & Stacking at Ports

**Port and Port Handling Projects**

- Port Equipment supplying & Port Project Design & Construction
- Marine Equipment Engineering & Supply



**TG-Sets**



**Steam Generators**



**Coal Handling Plant**



**Ore Preparation**



**Blast Furnace**



**Rolling**



.....



**Material Handling in Cement Plant**





**Turbines for Sugar Plants**



**Material Handling**



**Stockyard System**



**Belt Conveyors**



**Cross-country Pipe Conveyors**



**Boom Type Stacker & Reclaimer**



**Bridge-type Reclaimer**



**Circular Stockyard Stacker & Reclaimer**



**Wagen Tippler System**



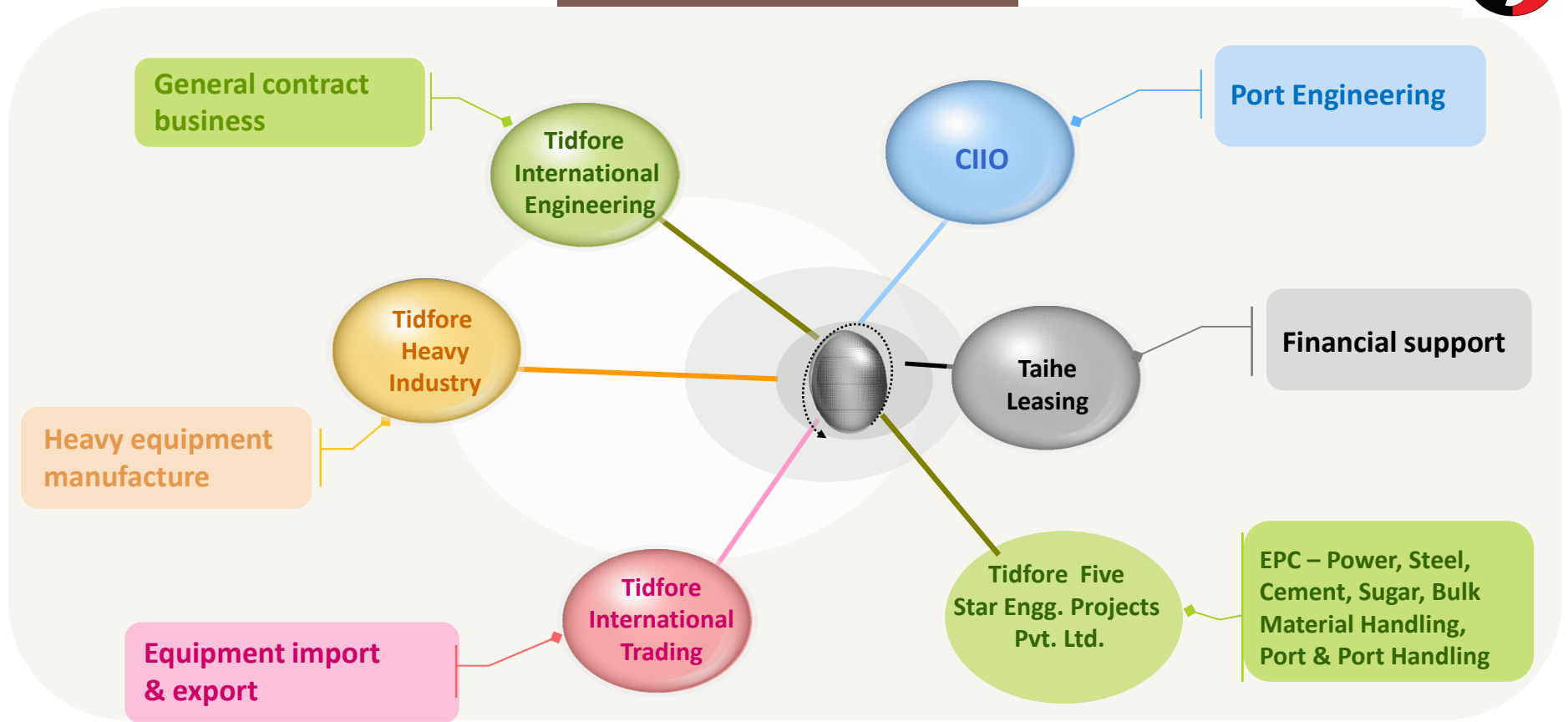
**Ship Loading System**



**Ship Unloading System**



**Portal Crane for Handling Containers**



Tidfore Group



**Our Manufacturing Base in China:**



Two green industrial parks of Juhua in the south and Tianjin Harbor in the north, covering a total area of 3,460,000 m<sup>2</sup>. 2,000 employees and more than 20 subsidiaries with branches in Beijing, Shanghai, Shengzhen, Hongkong, Brazil, , etc.

Jiu Hua • Xiangtan



**Jiuhua Industrial Park**—— Total Area: 1,200,000 m<sup>2</sup>  
Work Shop: 400,000 m<sup>2</sup>

Tianjin

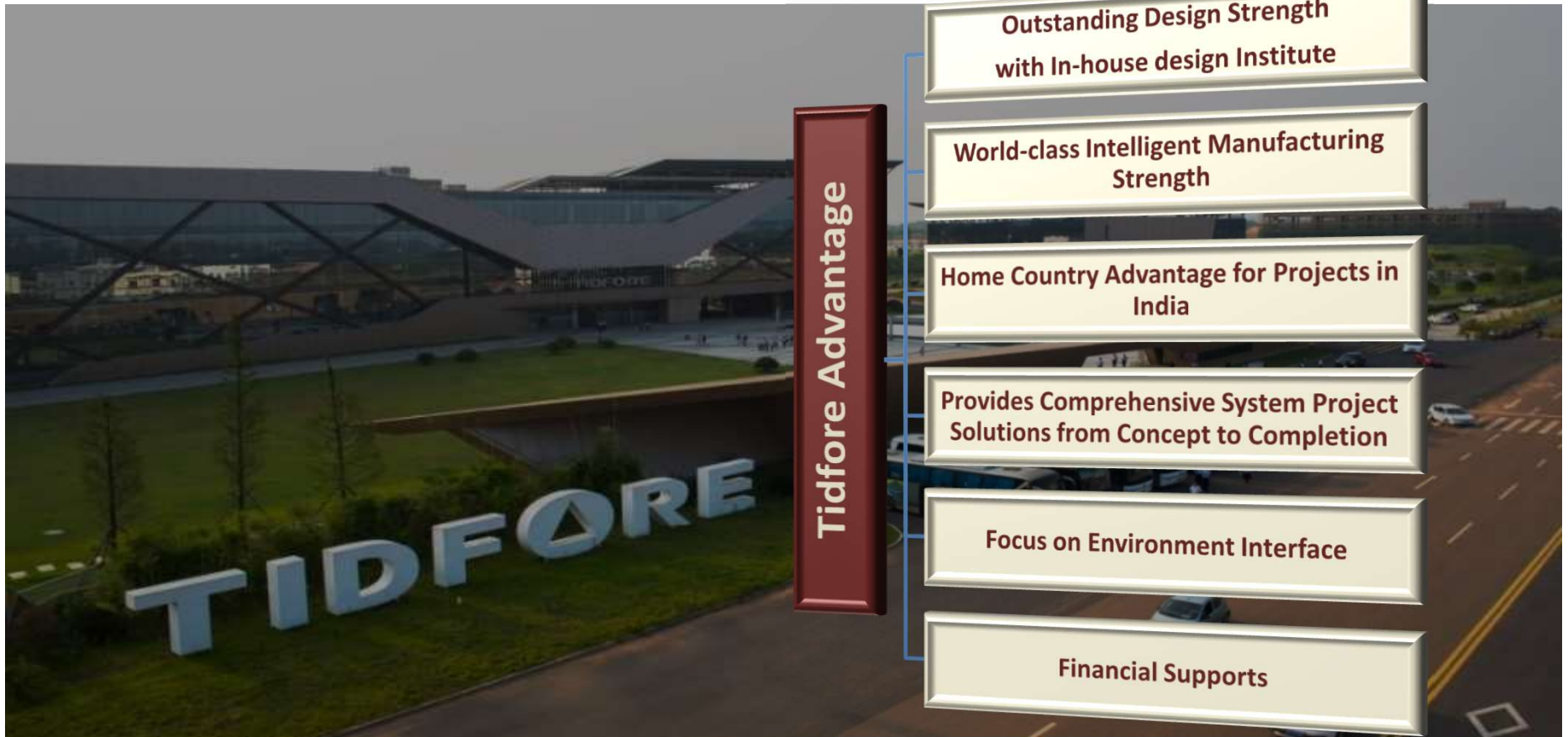


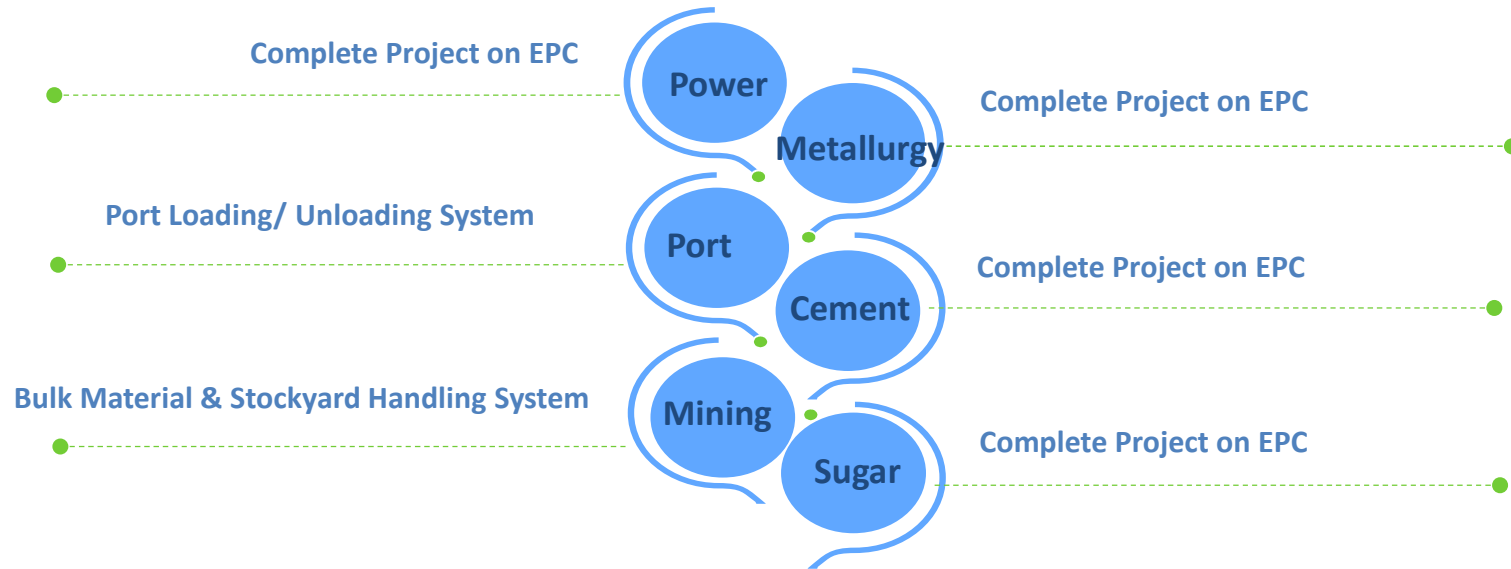
**Harbor Industrial Park**—— Total Area: 2,260,000 m<sup>2</sup>

Coastline: 2,000 m

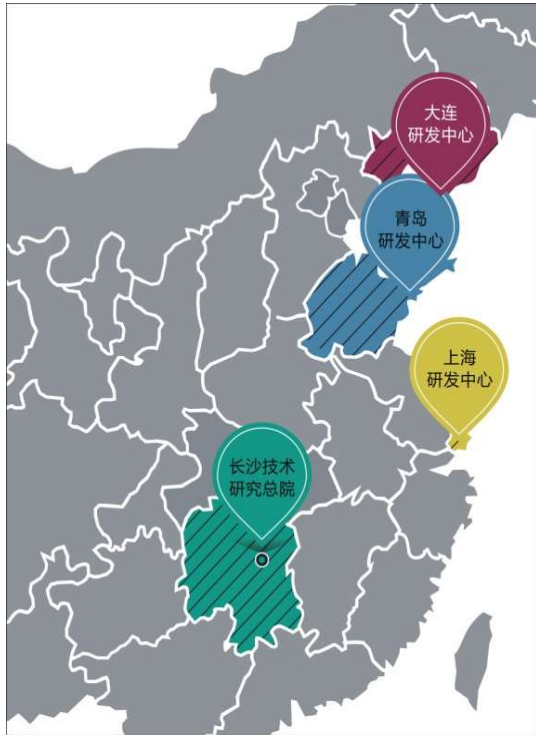
World' s largest, most competitive one-stop international port, offshore engineering equipment exhibition, trading and service center, manufacturing and remanufacturing base.







## Strong Technical Support



	Changsha	Dalian	Qingdao	Shanghai	Kolkata
Senior Engineer	11	2	85	5	2
Intermediate Engineer	54	7	126	10	4
Assistant Engineer	47	8	217	15	6
Project Execution Team	30	3	2	2	3
<b>Total</b>	<b>142</b>	<b>20</b>	<b>430</b>	<b>37</b>	<b>15</b>

Innovation for the Future: The development purpose of Tidfore Group, 5% of the company's annual sales revenue is invested into R&D

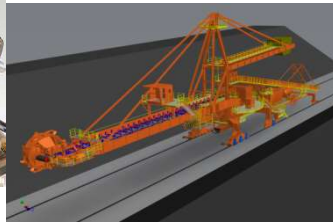


*Technological cooperation with Germany KOCH from 2003 to 2006*

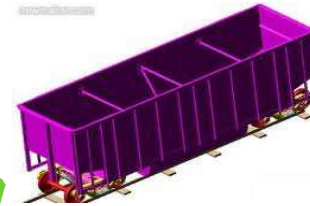




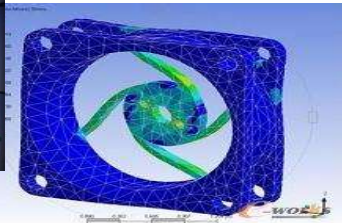
### 3D Design



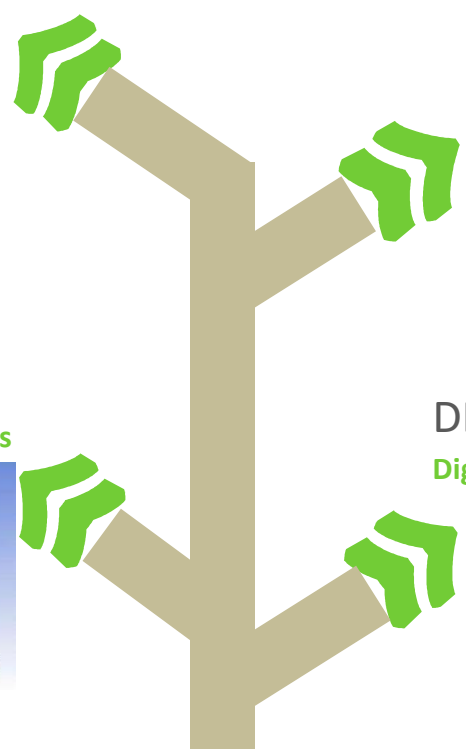
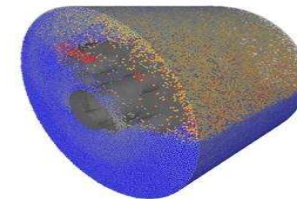
### Dynamics Analysis



### FEA Finite Element Analysis



### DEM Analysis Digital Elevation Method





Extraordinary Pre-assembling & Commissioning Yard



**TIDFORE**

**Advance Manufacturing Facilities**



**Digital Workshop**



**Welding Robots**

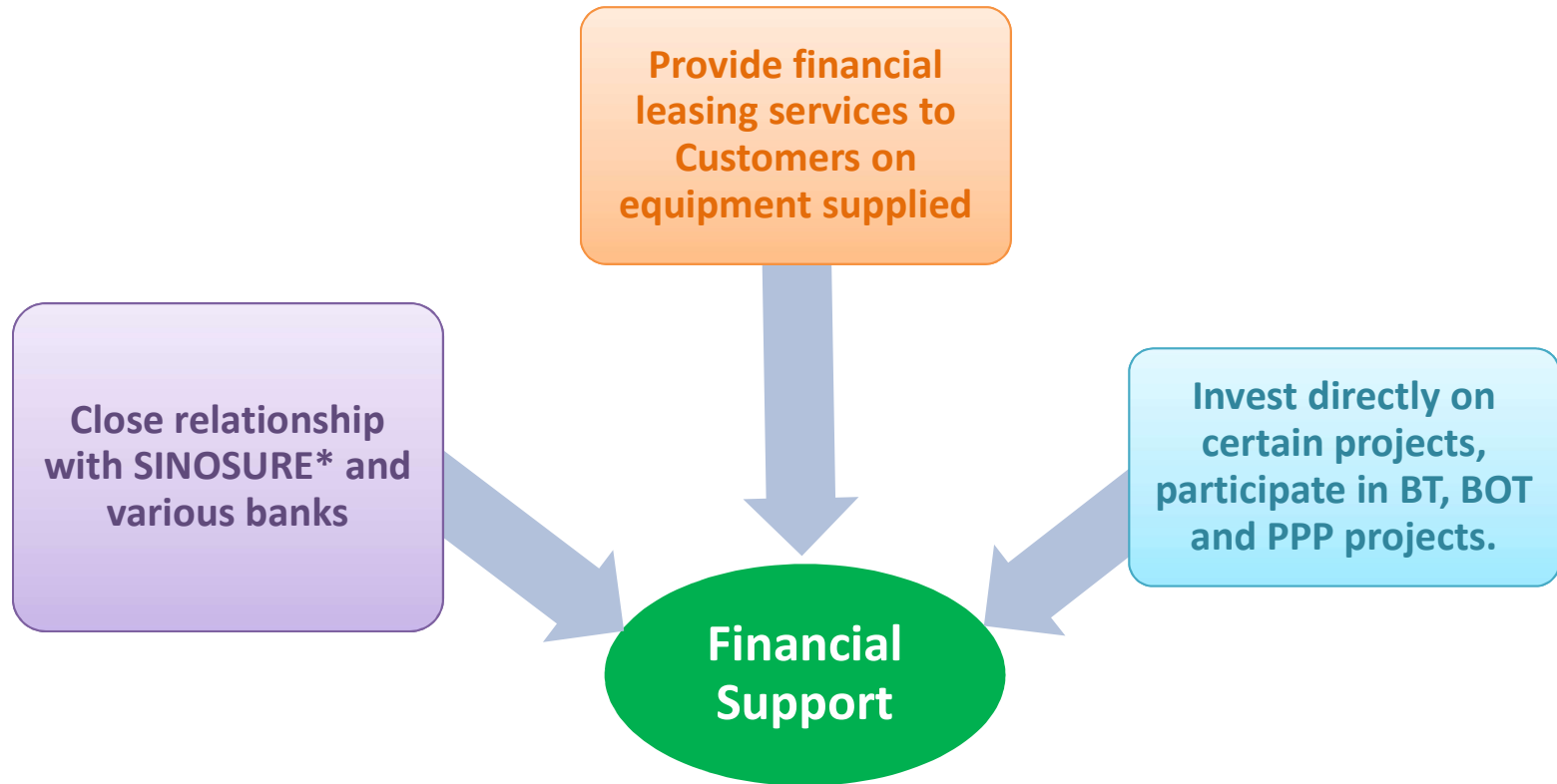




**Welding Robots**



## Financial Support



\*SINOSURE – China Export & Credit Insurance Corp.



**Client:** Vale Group  
**Type:** Bucket Wheel Reclaimer  
**Capacity:** 10,400 TPH  
**Boom:** 50m  
**Material :** Iron ore  
**Year:** 2010





Client: POSCO E&C  
Type: Bucket Wheel Stacker/ Reclaimer  
Bridge Type Scraper Reclaimer  
Capacity: 1,000 / 6,000TPH  
Material: Ni  
Year: 2008





**(EPC project)**

**Sand gravel conveyor system  
RMB150,000,000.**

**Caijia Islet Project in Xiangjiang River**



**(EPC project)**

**Expansion Project of Queen Elizabeth II  
Quay, Freetown Port  
USD708,000,000**



SN	Client	Country	Year	Project	Type	Main Equipment				
						Item	Capacity	Q'ty	Industry	Remark
1	Tianjing Tiangan United Special Steel Co., Ltd	China	2012	800,000 ton raw material stockyard	EPC	Wagon Tippler	Single	1	Metallurgy	Completed
						Stacker/reclaimer	2500 TPH	4		
						Belt Conveyor	2500 TPH 2,450 m	22		
2	Tianjin Xinke Metal Materials Co., Ltd	China	2013	600,000 ton raw material stockyard	EPC	Wagon Tippler	Single	1	Metallurgy	Completed
						Stacker/reclaimer	3000 TPH	2		
3	Linfen Xin Jieyuan Coal Co. Ltd.	China	2013	2,400,000 t/y coal washing and preparation system	EPC+F	Coal Washing Equipment	/	/	Coal	Under construction
4	Rugao Port Group Co.,Ltd	China	2013	Port extension and coal washing system	EPC+F	Port Crane	25T	2	Port	Completed
							40T	3		
							10	4		
							Ship Loader	1800 TPH		
						Belt Conveyor	1000 TPH 4,470 m	14		
5	Guizhou Yong Fu Gui Cement Plant	China	2013	6000 t/d dry process cement clinker production line	EPC+F	Material Handling System	/	/	Cement	Under design
6	Jiangsu Rong Xin Wei Ye New Materials Co., Ltd	China	2014		EP	Rotary kiln, Belt Conveyor	/	/	Metallurgy	Under construction
7	Beichen metallurgical chemical company	China	2014	Company Owned 2 x 135MW thermal power plant	EPC+F	Generating System, Boiler System, Stockyard System	/	/	Power	Under design
8	Changsha Xiang Jiang Comprehensive Port Development Ltd	China	2014	Belt/Pipe Conveyor System	EPC	Belt Conveyor	800 TPH 4,114 m	76	Port	Under construction
							1,200 TPH 2,789 m	30		
							2,400 TPH 550 m	2		
						Pipe Conveyor	2,400 TPH 5,934 m	4		
9	GALAXIA	Brazil	2014	Supporting Vessel for Petrobras	EP+F	Supporting Vessel	OSRV 750	4	Marine	Under design
							PSV 4500	4		
10	Hunan Electric Power Design Institute	China	2014	D120m circular yard for Tianji Bei Jiang Power Plant	EPC	Circular Yard Stacker/Reclaimer	3000/1500 TPH		Power	Under construction



No	Client	Place	Description	Q'ty	Material
1	POSCO Engineering & Construction Co., Ltd	Korea	DB6000·28 Stacker, Stacking capacity: 6000t/h	1	ore
2	POSCO Engineering & Construction Co., Ltd	Korea	DB1200·30 Stacker, Stacking capacity: 1200t/h	1	ore
3	POSCO Engineering & Construction Co., Ltd	Korea	QBL600·30 Boom Bucket Wheel Reclaimer, Reclaiming capacity: 600t/h	2	ore
4	Hyundai Steel Coke plant	Korea	DQL300/300·40 bucket wheel stacker/reclaimer, Stacking 300t/h & Reclaiming 300t/h	1	coke
5	POSCO Engineering & Construction Co., Ltd	Korea	QHB400·32 Bridge Scraper Reclaimer Reclaiming capacity: 400t/h, Span: 32m	1	ore
6	POSCO Engineering & Construction Co., Ltd	Korea	BC2000.6000TPH.670m Belt conveyor	3	ore
7	POSCO Engineering & Construction Co., Ltd	Korea	BC1200.600TPH.1290m Belt conveyor	6	ore
8	Indonesia PLTU power plant	Indonesia	DQL200/800.25 Bucket wheel Stacker & Reclaimer	1	coal
9	Indonesia SUMATERA Plant	Indonesia	DQL600/1600.30 Bucket wheel Stacker & Reclaimer	1	coal
10	Turkey BEKIRLI POWER ST	Turkey	DQL650/1500.45 Bucket wheel Stacker & Reclaimer	4	coal





No	Client	Place	Description	Q'ty	Material
11	Indian Energo Co., (LANCO Power )	Indian	DQL1600/1600.41 Bucket Wheel Stacker & Reclaimer, Capacity: Stacking 1600t/h & Reclaiming 1600t/h	1	coal
12	Indonesia Mianlan Power Plant	Indonesia	DQL450/1500.35 Bucket Wheel Stacker & Reclaimer, Capacity: Stacking 1500t/h & Reclaiming 450t/h	2	coal
13	USA COLECO Company	USA	D=Φ500mm, Length:2430m, Capacity:2000tph Pipe conveyor	2	coal
14	USA HOLCIM Company	USA	D=Φ400mm, Length:445m, Capacity:1500tph D=Φ500mm, Length:456m Pipe Conveyor	2	coal
15	Vale S/A Company	Brazil	DQL10400.50 Bucket Wheel Reclaimer, Capacity:Reclaiming 10400t/h	4	ore
16	Vale S/A Company	Brazil	DBH2150.27 Stacker,DBH4900.28 Stacker	2	ore
17	Vale S/A Company	Guinea	DBH4900.28 Stacker Capacity:4900t/h	2	ore
18	Atlas Power plant	Turkey	DQL1000/1500.45 Bucket Wheel Stacker Reclaimer Capacity:Stacking 1000t/h;Recailming 1500t/h	2	coal
19	Philippines power plant	Philippines	DQY1500/1500.120m Circular Stacker & Reclaimer	2	coal



INNOVATION FOR THE FUTURE

**THANK YOU**

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