



世紀鋼鐵結構股份有限公司

# Century Iron And Steel Industrial Co., Ltd



## Outline

- **Company Introduction**
- **Plant Layout and Expansion Plan**
- **Newly Purchased Equipment**
- **Met Mast Fabrication**
- **Plan for OWP Turbine Foundation Supply**

# Company History

Time	Important Milestone
1987 Oct	Company established
1988 Sept	Kuan-In Plant completed, starting to fabricate all kinds of profile steel.
1998 Apr	Signed steel structure contract with Acer Display Technology, the first LCD plant in Taiwan.
2003 Oct	One of the largest steel structure engineering in Taiwan: "Nangang station CL305"
2007 May	Jinhu new plant office: began construction
2008 Mar	Mar12th: listed on stock exchange
2013 Aug	Sign the contract with BoE together with TGC and CSBC to set up the Fuhai Offshore Wind Farm
2014 Apr	Secure the Taipei Harbor lands for expansion
2014 Aug	Offshore met mast fabrication completion



## Grant Scheme Contract Signing Ceremony with MoEA on 2013/8/19

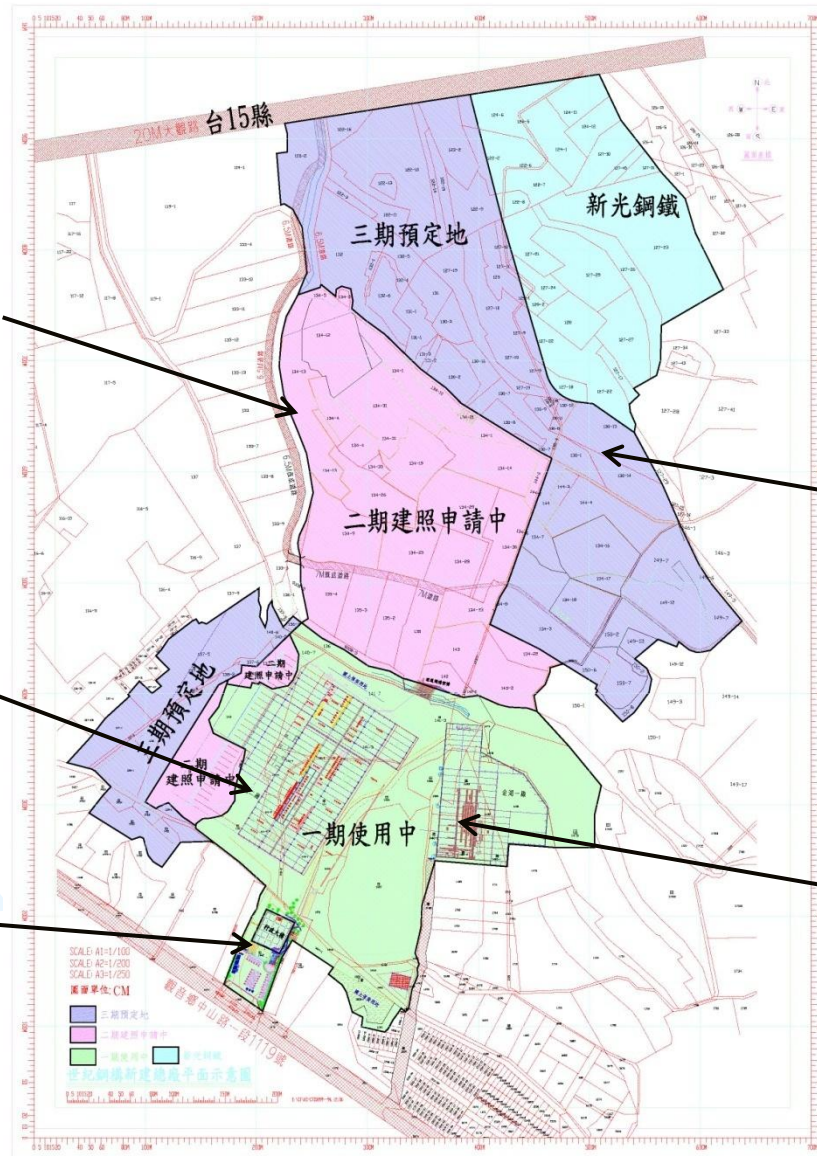


## Syndication Loan Contract Signing Ceremony on 2014/7/3

# Operation Status

<b>Plants</b>	Taoyuan Plant II	10,000 m <sup>2</sup>	Steel plate cutting, beam and column connection
	Taoyuan Plant I	4,500 m <sup>2</sup>	Girder, beam, sandblast and paint
	Taoyuan Storage Area	45,000 m <sup>2</sup>	Materials and products storage
	Yunlin Plant	40,000 m <sup>2</sup>	Manufacture steel bridge and other steel products
	Taoyuan Plant III ~ V Extension	>120,000 m <sup>2</sup>	Manufacture steel column and steel bridge
<b>Employee numbers</b>	Full-time	250 people	Include foreign workers
	Part-time	70 people	Adjustable
	In-house contractors	200 people	Fabrication in plant
<b>Annual Production</b>	Approx. 100,000 tonnes		

# Plant Layout and Future Development Plan



Phase Two Development Plan  
(50000 m<sup>2</sup>)

Phase Three Development Plan  
(75000 m<sup>2</sup>)

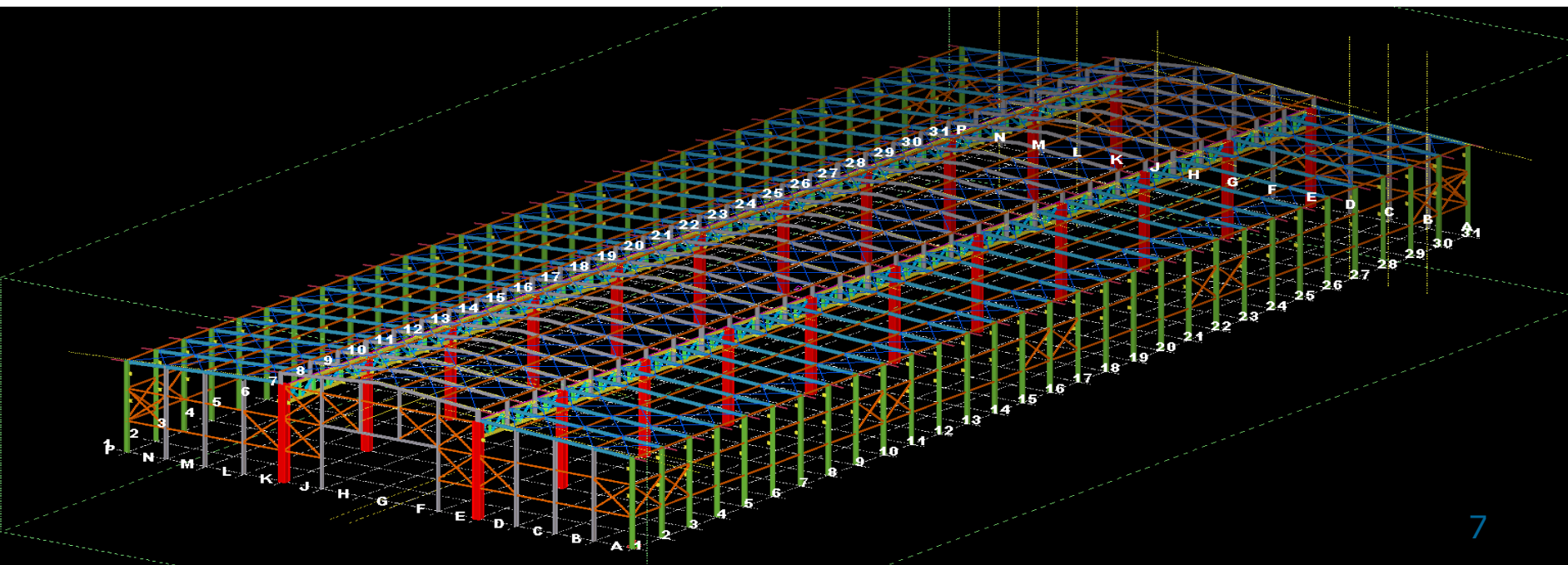
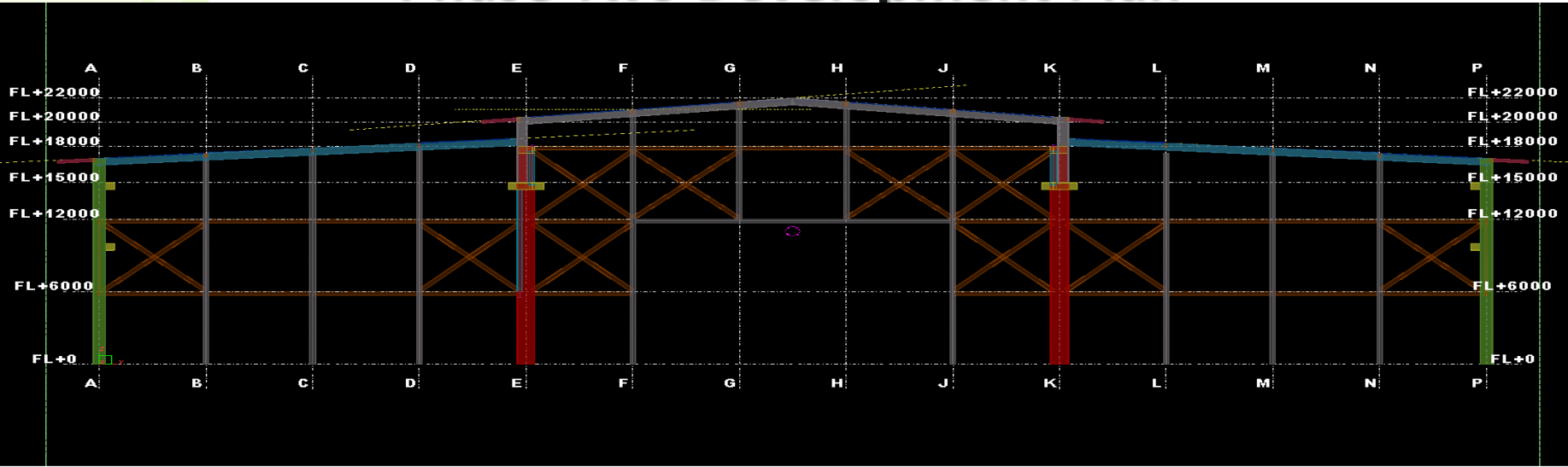
Jin Hu Second Plant  
(approx. 22,643 m<sup>2</sup>)

Jin Hu First Plant  
(approx. 25,000 m<sup>2</sup>)

Administration  
Building

Note 1: to be converted to industrial  
used land by 2012

# Phase Two Development Plan





臺灣港務股份有限公司  
基隆港務分公司臺北港營運處

Taiwan International Ports Corporation, Ltd.  
Taipei Port Branch Office, Port of Keelung

地址：新北市八里區訊塘里商港路123號

Address：No.123, Shang Gang Rd., Shiuntang Village, Bali  
District New Taipei City, Taiwan

TEL:886-2-26196000 886-2-26196038 FAX：886-2-26196017

[http：//www.tppoport.gov.tw](http://www.tppoport.gov.tw)

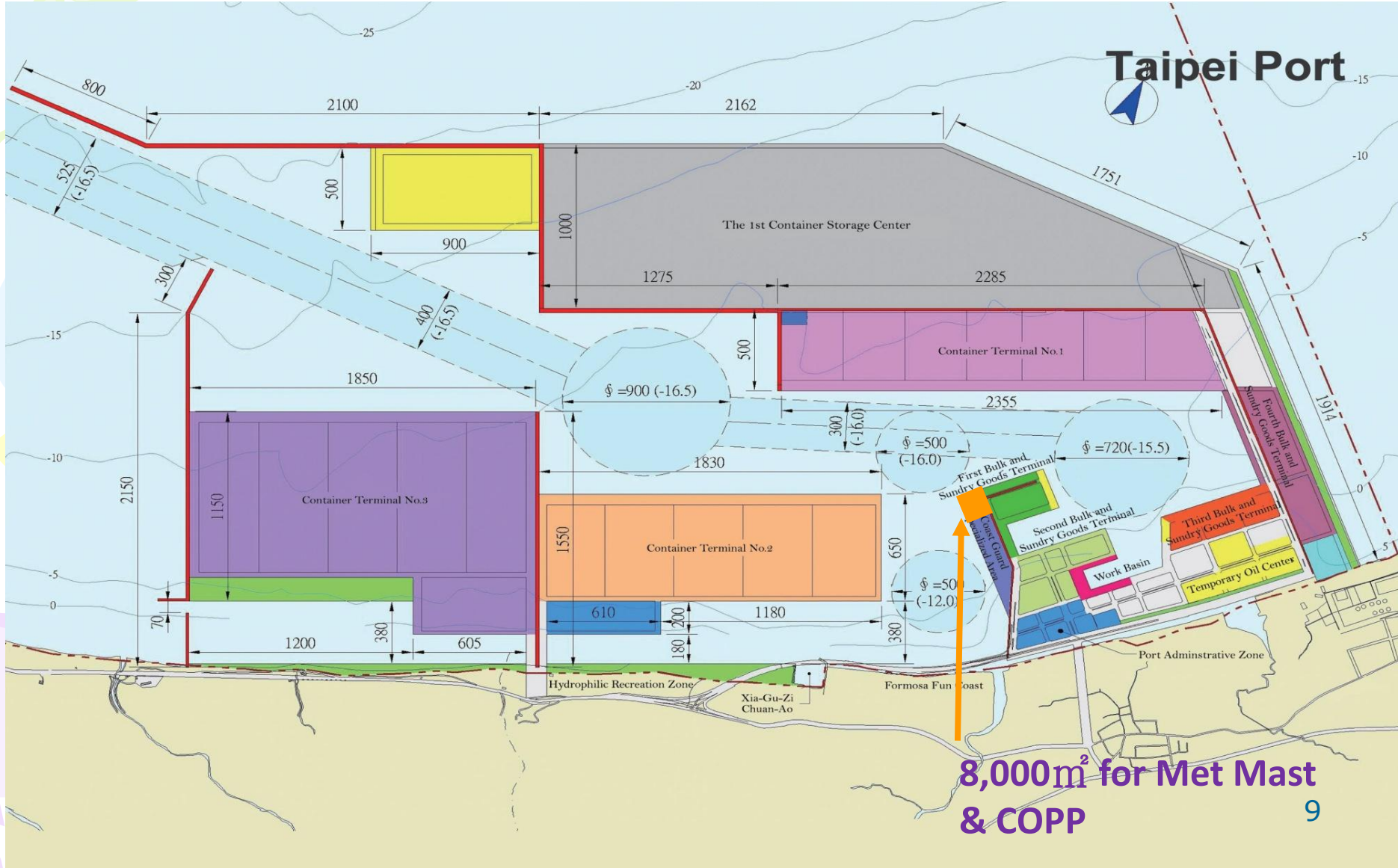
# 臺北港

# PORT OF TAIPEI

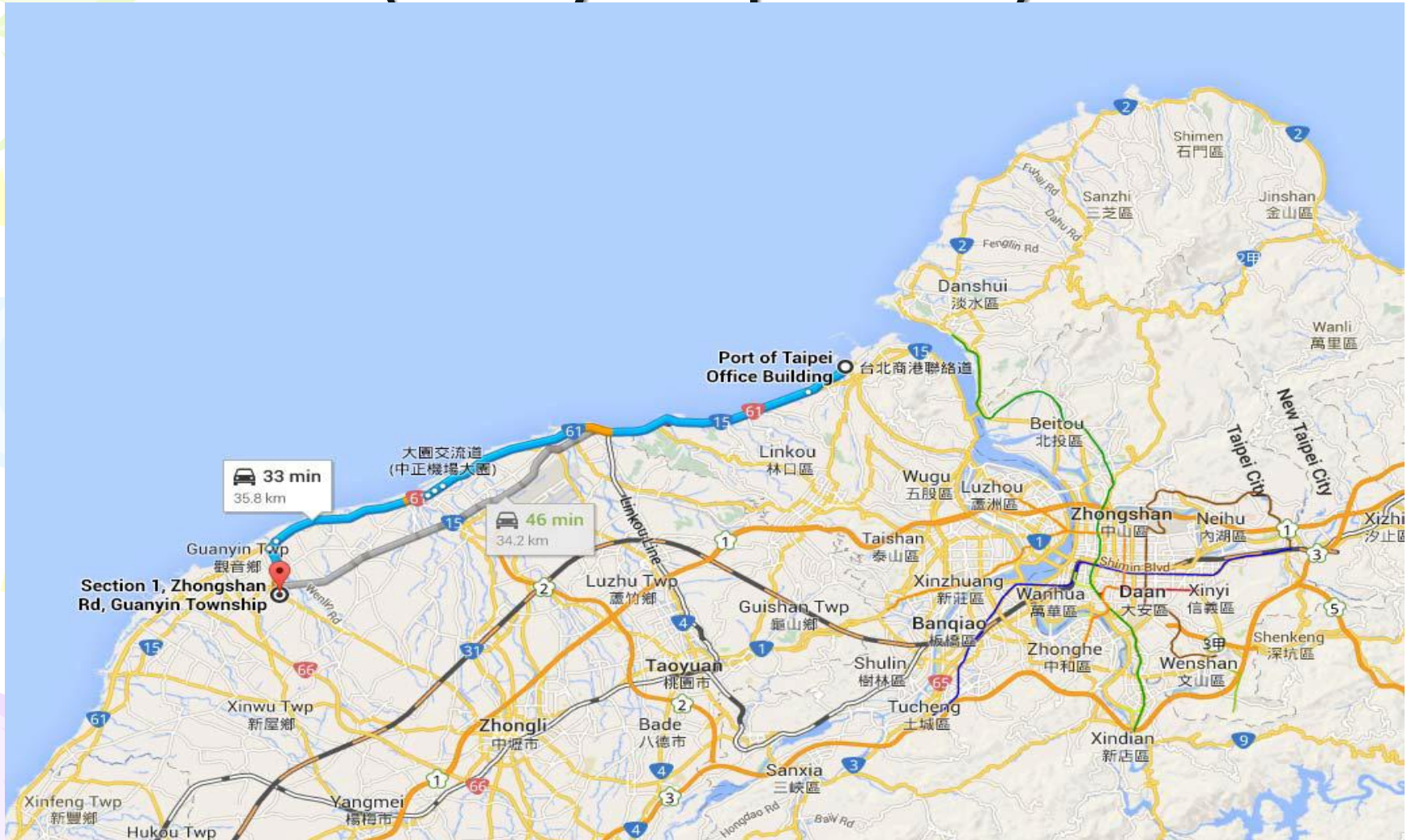




# Taipei Harbor Layout



# Inland Transportation Route (Century to Taipei Harbor)



# Newly Purchased Equipment

- **Bending Machine (150mm)**
- **Column & Booms (Manipulators)**

## Newly Purchased Equipment

### Automatic welding - Column & Booms and seamers



## Newly Purchased Equipment

### 120/200T Rotators for welding supports



# Bending Machine

- FACCIN  
Variable Geometry Plate Bending Machine
- Max plate Width 3050 mm

Material Yield Strength (N/mm <sup>2</sup> )	Diameter (mm)	Plate Thickness (mm)
<b>260</b>	12000	150
	1200	130
	12000	188(half)
<b>360</b>	10000	133
	1200	104
	10000	150(half)

# Newly Purchased Equipment

## FACCIN-Plate Roller (150mm)



### STANDARD CONFIGURATION:

- Variable geometry with three moveable rolls;
- Linear Slides for roll movement (RGS);
- Induction hardened and surface polished rolls;
- Electronic Balancing System (EPS);
- Special Breaking System for optimal prebending;
- Cone bending attachment;
- Control console moveable on wheels;
- Centralized Lube system (pump);
- Siemens Numerical Control Unit;
- Safety Guard cable around the machine;
- Machine CE certified for its safety;

### UPON REQUEST:

- Automated loading and unloading systems;
- Motorized roller feed tables;
- Automatic ejectors;
- Side and Top plate supports;
- Machines designed for rolling hot plates;
- Lower Budget Swing Arms solution;
- Integrated welding systems;
- Special colours;

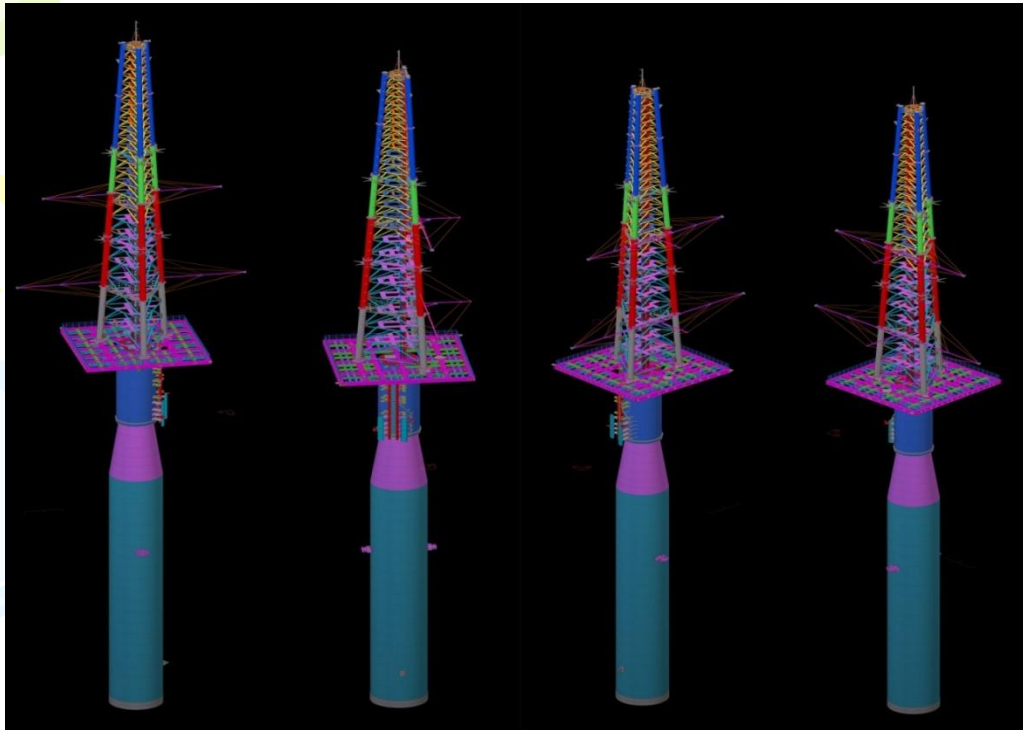
Ask for specific brochures or download them from our web site [www.faccin.com](http://www.faccin.com)

*the bending roll specialist*

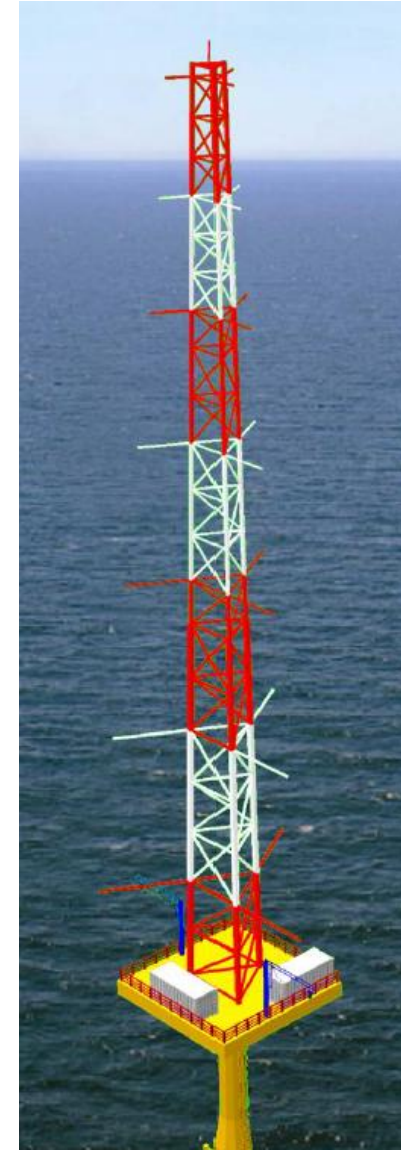


FACCIN srl | 19

# Met Mast Design



<b>Tower</b>	<b>68m Lattice Structure</b>
<b>Pile</b>	<b>Length:68 m</b>
	<b>Diameter:4.2m</b>
	<b>Thickness:50mm</b>
	<b>Weight: 340 T</b>





# Met Mast Fabrication (Pile and Platform)



# Met Mast Fabrication (Pile and Tower)



# Pile Transportation (From Century to Taipei Harbor)



# Met Mast Fabrication (Pile)



# Met Mast Fabrication (Pile)



# Met Mast Fabrication (Pile)



# Met Mast Fabrication (Pile)



# Pile Assembly at Taipei Harbor



2017/5/3



# Met Mast Fabrication (Platform)



# Met Mast Fabrication (Platform)



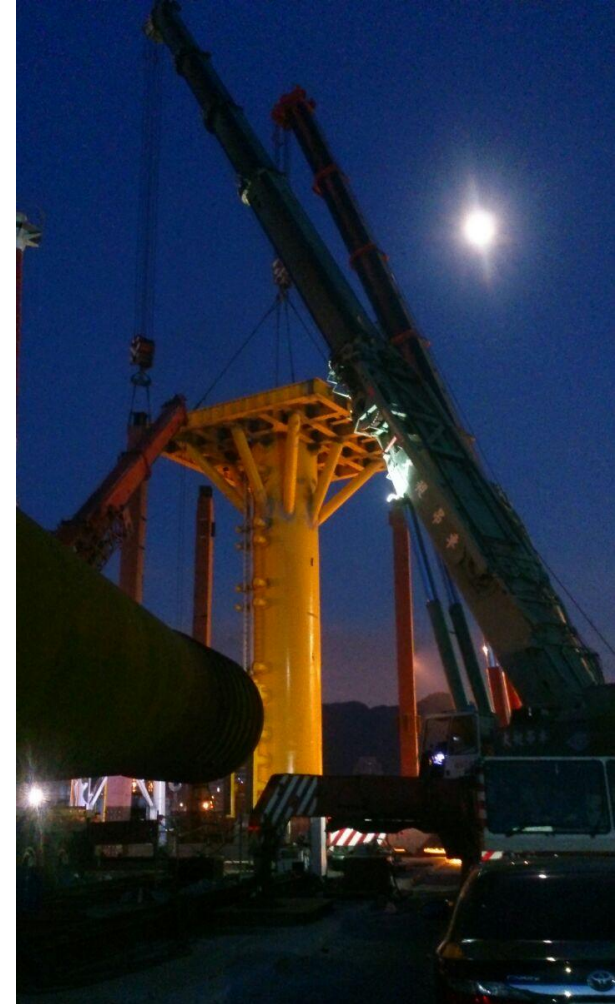
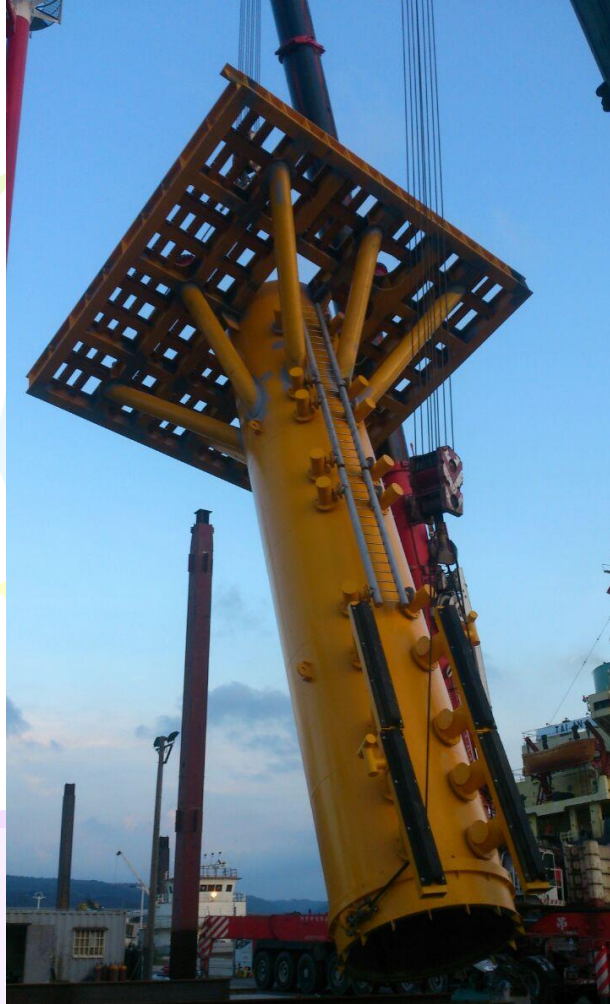
# Met Mast Fabrication (Platform)



# Platform and Transition Piece Assembly at Taipei Harbor



# Platform and Transition Piece Assembly at Taipei Harbor



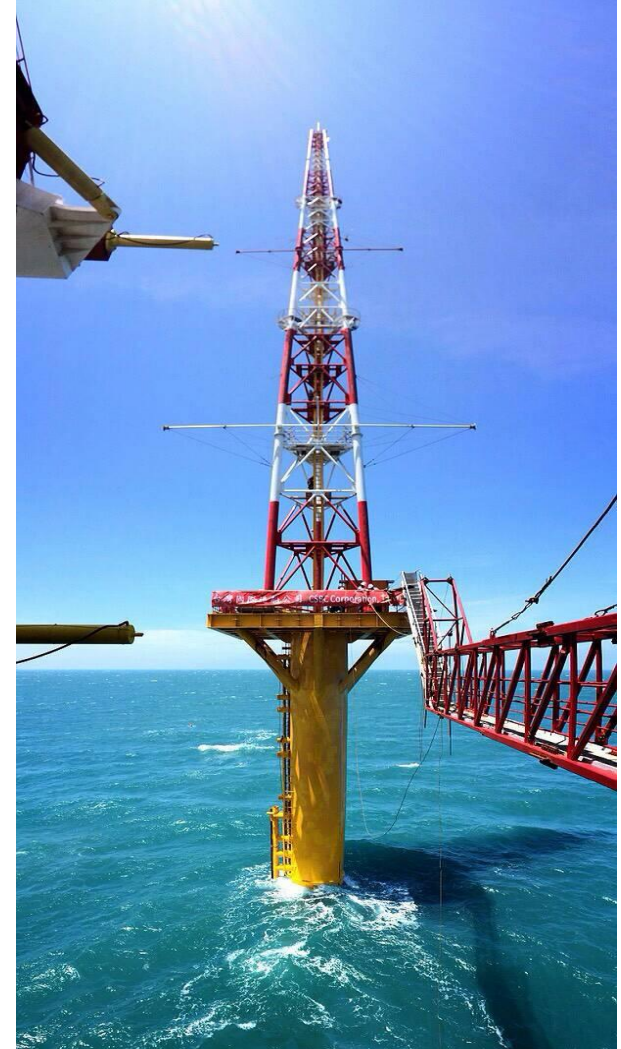
# Met Mast Assembly at Taipei Harbor



# Met Mast Pre-Assemble



# Met Mast Loadout





## Next Step – OWPTF Fabrication

- **Welding Fabrication Capacity;**
- **QA & EHSE system;**
- **Enclosed Warehouse for Painting and Sand Ballasting;**
- **Feasible Production Line;**
- **Transportation Solution.**



# Planned Timeline for OWPTF Fabrication

2014

Met Mast Fabrication Experience

2016

Recruitment and Training for Offshore Wind Power Turbine Foundation Professionals

2017

WPQS, PQR & WPS Validation

Enhance QA System and Documentation

Enhance EHSE System and Documentation

New Factory and Production Line Planning

New Equipment Purchase

New Factories Set Up (including Painting and Sand Ballasting Warehouse)

Fulfill SCM Qualification Requirement

2018

Supply Offshore Wind Turbine Foundation



Thank You



2017/5/3