**CSC Group Joint Conference** 

# **China Steel Corporation**

## November 12<sup>th</sup>, 2019

Sustainability, our STEEL commitment.



- Opening Remarks from Chairman
- Steel and Raw Material Dynamics
- Business Highlight
- Grasp the Trend, Win the Future -
  - -Electric Vehicle -Renewable energy -National Defense Industry -Industrial Upgrade
- Appendixes: Sales Analysis,
   Financial Performance and Dividend Policy



AGENDA

#### Safe Harbor Statement

This presentation may contains forward-looking statements. All statements other than historical and current fact, without limitation, including business outlook, predictions, estimates, are forward-looking statements.

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# **OPENING REMARKS FROM CHAIRMAN**



## worldsteel Revises up Steel Demand Outlook

- worldsteel has released the upward revision for the short range outlook of steel demand growth in 2019 from previous forecast 1.3% to 3.9%, and 2020 from 1.0% to 1.7%.
- Global steel demand continues to grow in 2019 mainly owing to China. China's real estate market reported strong performance, benefited from the relaxation of control policies and the newly implemented construction standards.



Source: worldsteel SRO, 2019.10.14

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- Steel demand keeps growing for two years consecutively in North America, CIS and Asia .
- Steel demand in 2020 will revive in EU, Central & South America, Middle East and Africa.
- Steel market is at the bottom in 2019, and the outlook for 2020 is cautiously optimistic.

# **Top 10 Steel-Using Countries**

TOP 10 (2015)		TOP 10	(2020)
Country	Steel demand [Mt]	Country	Steel deman [Mt]
China	672.3	China	909.1
United States	96.1	India	108.7
India	80.2	United States	101.2
Japan	63.0	Japan	64.1
South Korea	55.8	South Korea	54.2
Russia	39.8	Russia	43.9
Germany	39.1	Germany	37.8
Turkey	34.4	Turkey	27.7
Mexico	24.9	Italy	27.5
Italy	24.5	Vietnam	25.3

Source: worldsteel SRO, 2019.10.14

- India's steel demand will be greater than that of the US in 2020.
- Vietnam will formally become one of the world largest steel-using countries. Steel demand in 2020 will grow to 25.3 million MT.
- Global manufacturing industry is gradually transferring the supply chain to India and Vietnam from China's red supply chain.



## **Global Steel Demand Will Keep Growing in 2020**

- Gradual recovery in three major steel using sectors in 2020 :
  - Construction: Active infrastructure investment in emerging markets, such as ASEAN and India, will drive global steel demand.
  - Automotive: As many countries plan to introduce several tax cut policy and stimulus measure to boost sales, demand is expected to bottom out in major car consuming countries such as China, India, Russia and Germany.
  - Mechanical machinery: Infrastructure projects in developing countries will drive demand for construction and energy related machinery. The replacement demand for equipment will also provide support in 2020.

Source : worldsteel SRO, 2019.10.14



# Steel Market Outlook in 2020

- Almost all global steel mills were operated at break-even or at a loss in 2019 Q3 and will strive to stop loss.
- Deferring Q4 peak season demand and restocking demand in 2020 are expected to raise steel price.
- US-China trade war is easing. Weaker USD and stabilizing emerging currencies are benefit to the rebound of steel price.
- Blast furnace mills have started to cut production and steel price is bottoming out.
- US steel mills announced price increase of US\$40/st; less lowpriced imports are offered from India and Russia; Steel price in China has rebounded.
- The return of Taiwanese companies will drive up steel demand for factory construction.
- Steel demand from green energy sector will be released in 2020.
- The auto and motor industry is expected to recover in 2020, and the rapid growth in EV will increase the demand of steel for electric motors and auto steel and aluminum material.





# STEEL AND RAW MATERIAL DYNAMICS



## Major Steel Market Dynamics

#### **US & EU :**

- Manufacturing sector are declining due to the economic downturn and rising uncertainties.
- In Germany, manufacturing industry has fallen into recession, especially the auto industry.
- ✓ Weak steel demand and lower-priced imports both make the steel market stressed further. Unit : 10000 tons

Jan. ~ Sep. 2019 80.000 74,782 YoY -5.0% 60.000 40,000 20,000 YoY +8.4% 5.031 Steel Export **Crude Steel Production** in China

in China

**China** : The social inventory stays at a healthy level, thanks to the support of domestic demand, especially the growth in construction sector.

South Asia :

**India's steel export has increased due to economic slowdown and** decline in automotive demand. In recent months, hot-rolled export per month surged to 600 thousand tons from the normal level of only 200 thousand tons.



## **Major Steel Market Dynamics**

#### Southeast Asia :

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- ✓ Market price continues plunging due to fierce competition from Turkish and Indian-origin materials.
- ✓ The infrastructure investment is expected to keep growing in 2020 and stimulates the growth of steel demand after the effect from imports fades out.

**Taiwan** :

- Taiwan's steel processing industry exports have declined and demand has decreased.
- Construction projects are projected to raise steel demand :
  - Public construction projects, such as offshore wind farm and Taoyuan Metro
  - Other major projects, such as Xinyi A7 (Taipei sky tower) and technology park factory buildings



# Raw Material Price Trend

compared to Dec. 2018 45.00% 39.52% 40.00% 35.00% 30.00% 25.00% 20.00% 13.76% 14.05% 15.00% 10.00% 5.00% 0.00% -5.47% -5.00% -10.00% 201812 201901 201902 201903 201904 201905 201906 201907 201908 201909 —Iron Ore —Coking Coal

CSC incoming raw material price trend



**Percentage change** 

## Sales Analysis (CSC & BF Products of DSC)



- The global steel market has declined due to the US-China trade war in 2019. CSC group total orders have decreased accordingly.
- To adapt to market changes, CSC group will assist all downstream customers in increasing competitiveness.





# **BUSINESS HIGHLIGHT**



## Wide Variety, High Grade, and Customization



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 59varieties in the 7 main product types, with 45 (76.3%)
 reaching top grade or even higher

 Establish metallurgical process dynamic control system using smart production technology, which customizes products depending on customers' preference



In 2019, CSC promotes 418 cost saving projects aiming at saving 6.18 billion.





## **Intelligentization Development**

Use digital technology such as sensor, cloud, big data, AI, etc. on the establishment of intelligent system of production, production scheduling, equipment maintenance, logistics and storage, quality management, sales, finance and accounting, safety, and environmental protection so as to improve operational efficiency.



#### Total benefit in 3 years: NTD 276 million



## **CSC Hot Strip Mill Intelligentization Progress**



## **Energy Saving and Environmental Protection**

Continue to carry out equipment inspections and approved several upgrade and environmental improvement plans to improve the production efficiency and environmental protection.

- As of the end of 2018, CSC has invested NTD 67.8 billion in environmental protection equipment. From 1992 to 2018, the emission of particles, SOx, NOx, and VOCs decreased by 89.7%, 76.6%, 56.2%, and 78.3% respectively.
- Promote 5G strategy (Green Processes, Green Products, Green Businesses, Green Partners, and Green Living), fulfill the concept of circular economy and create external environmental protection benefit.



# District Energy Integration



- Connect 14 plants in Kaohsiung Linhai Industrial Park, sell steam and industrial gases such as steam, oxygen and nitrogen, and create a win-win situation for CSC, neighboring plants and environment.
- In 2018, CSC sold 1.67 million tons of steam, saving energy equivalent to 129,000 kL fuel oil and reducing 385,000 tons emission of GHG.



## **Strengthening R&D Capability**

Strengthening R&D Capability

- ✓ Planning to recruit about 100 doctoral researchers personnel in the next few years
- ✓ Deepening cooperation with academia and institutes to increase R&D efficiency by bringing in research resources
- Establish 5 Engineering Research Centers (ERC) in NTU, NCKU, NSYSU, NTUST and MIRDC; establish 5 Joint Research Laboratories (JRL) in auto, compressor, and refractory industries; execute 2 phases of Industry and Academia Alliance program.
- Engage with Industrial Technology Research Institute (ITRI), through three R&D platforms in the fields of intelligent manufacturing, water resources and high-end metals.
- Deepen basic capability, cultivate core technology, and improve competitiveness through differentiation.





## **GRASP THE TREND, WIN THE FUTURE** -Electric Vehicle -Renewable energy -National Defense Industry -Industrial Upgrade



## **Penetration in the EV Industry**

#### **High Efficiency Power System** Drive Motor Transmission system



- Thin gauge ESMagnetic material
- Provide the second seco
  - High quality wire and rod products
  - Precision forging technology

#### Lightweight Car Body to Save Energy



- High strength steel and aluminum : 3<sup>rd</sup> generation AHSS > BH series > High strength aluminum plate for automobile
- Advanced processing technology : the forming technology for high-strength steel & aluminum, and hot stamping
- Develop key materials and build *CSC-inside* power systems of EV
   Exploit the advantage of our group supply capability in both steel and aluminum material and provide customers with one-stop solution.



## **Electrical Steels for Motor of Electric Vehicle**

- CSC is the major ES supplier for T Company, a big EV manufacturer worldwide and also expanded into the supply chain of A Company and V Company in Europe. The sales volume is expected to keep growing.
- CSC has passed through material verification of four mainstream EV manufacturers in US, Japan and China, and is actively pursuing supply.

Annual output value will reach NTD 5B in 2023 from current NTD 1.5B.



Benefit



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# **Development of Renewable Energy**

# Renewable energy is the trend, and is expected to prosper for over 20 years.



## **Foundation Business Opportunity**

	Components	Supply Chain		
	Transition	Tier1	Tier2	
	1 Piece	CSBC, CSMC, CTCI	WanChi, Liang Lian	
	2 Secondary Steel	CSMC, CSSC	Chang Mao, Jin Qing, Heng Chang	
Wind Turbine	3 Node	CSMC, CSSC	Heng Chang, Hi Weld, Sheng Chun, Bing Tsen, Jiun Chi	
	4 LEG	CSMC, WanChi, Rong Sheng, APEX	Chang Mao, CSBC Coating Solutions	
	5 Bracing	Far East Machinery, WanChi	-	
Foundation 5	6 Anode	CSAC ` Fer Mo	-	
	<b>7</b> Stabbing Pin	CSMC, CSSC	Chang Mao, Liang Lian, Bing Tsen, Bore Yuan	
EXTERNAL TO T	Total suppliers	10	10	

- Invested NTD\$6.842 billion in the production line of foundation. To complete construction at the end of 2019.
- Establish a fully localized emerging industry cluster, from material to end product, to create NTD 10 billion annual output value.



## Business Vision of Jacket Foundations for Offshore Wind Farm





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# **Offshore Wind Farm Development**



#29 Wind Farm is close to the coast, at shallow water, with decent wind resources, and away from the fault and ecologically sensitive area.

**Easier construction and better operation outlook** 

Obtained preparatory permit and signed power purchase agreement, the wind farm is expected to connect to the gird in 2024 and generate an estimated 115 million kwh annual output, bringing in NTD 6.34 billion revenues annually.





#### **CSC Solar Corporation**

- Construction Plan : Invest NTD 4.36 billion in setting up 80MW PV panels on the roof of factories in CSC group. 102 million kwh annual output is expected.
- Holding percentage : CSC 55%, CEC 20%, CSCC 15%, DSC 10%

Year	2017	2018	2019	Total
Estimated Capacity Installed (MW)	30	30	20	80
Actual Capacity Installed (MW)	31.16	30.01	>20 (under construction)	>80 (under construction)
Electricity Output (100m kwh)	0.04	0.47	0.54 (until Sep.)	

• As of Sep. 2019, the accumulated electricity output of solar power in CSC group reached 105 million kwh. Carbon reduction reached 56 thousand tons, equivalent to the CO2 absorption of 140 Taipei Daan Park.

(Estimated based on the 2018 Taipower electricity carbon emission factor, 0.533 kg CO2e/kwh)



## **Materials for National Defense**



Plates for armored vehicle enable the founding of Taiwan Infantry Fighting Vehicle force.



Plates for submarine and naval vessel to support government's defense autonomy policy.



Key magnetic material for military radar.



# Industrial Upgrade

#### **Facilitating industry 4.0**

Constructing industry cloud to enhance cross-factory efficiency.
Introducing AI-based production and marketing.

#### **EVI-based Concurrent Engineering**

**Establishing JRL to proceed overall researches from materials to end products and enhancing the effect of industry chain.** 

#### Cultivating core technologies

Integrating the resources from government, academia and research institutes to execute the collaborative programs such as power system of EV.

## Promoting industry

#### service teams

Providing multi-program of process technology, quality control, logistics management, etc. to cultivate medium-sized enterprises

## Promoting Integrated Innovation Facilitating Upgrade and Transformation



# Thank you!



## Appendix1: Sales Analysis









## Appendix4: Consolidated Operating Results

#### Amount: NT\$ million

Item	*2019.1~9	2018.1~9
Consolidated Operating Revenue	281,806	296,446
Consolidated Operating Income	13,169	25,032
Consolidated Operating Income Margin	4.67%	8.44%
Consolidated Income Before Income Tax	13,617	23,594
*preliminary result		



## Appendix5: Consolidated Income Statement

IFRSs

Units: NT\$ millions

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	2019.1H	2018.1H
Revenues	191,111	193,714
Gross profit	18,504	22,133
Gross margins	9.68%	11.43%
Profit before tax	10,528	13,880
Net profit	8,378	<u>13,053</u>
Attributable to		
Owners of the corporation	7,181	11,168
Non-controlling interests	1,197	1,885
Earnings Per Share(NTD)	\$ 0.46	\$0.72



## Appendix6: Consolidated Financial Status

Units: NT\$ millions

	12/31/2014	12/31/2015	12/31/2016	12/31/2017	12/31/2018	6/30/2019
Debt	348,049	357,414	346,542	335,764	331,729	363,081
Debt/Equity	103.99%	111.44%	105.15%	101.15%	96.77%	107.11%
Asset	682,737	678,139	676,122	667,716	674,527	702,066
Debt/Asset	50.98%	52.71%	51.25%	50.29%	49.18%	51.72%
Net Debt *	250,540	269,034	254,390	238,426	212,949	205,484
Net Debt/Asset	46.88%	39.67%	37.62%	35.71%	31.57%	29.27%

\*2014~2017:

Net debt = Interest Bearing Debt – cash & cash equivalents – (*financial assets at fair value through profit or loss-current+ available-for-sale financial assets-current + held-to-maturity financial assets-current+ derivative financial assets for hedging-current*) \*2018~:

Net debt = Interest Bearing Debt – cash & cash equivalents – (*financial assets at fair value through profit or loss-current+ financial assets at fair value through other comprehensive income-current*)





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