

# **Company Flash**

18 January 2010

### TC Interconnect

### Setting up a JV to tap into high-voltage LED lighting market

TC Interconnect (TCI), a PCB manufacturer located in Zhongshan, entered into a non-binding MOU with Orient Opto-Semiconductors Corp. (OOS) in Sep 09 to set up a 70:30 JV to carry out high-voltage LED lighting business. Regard this movement, our preliminary research shows:

- The Ministry of Science and Technology Government set goal to install total 3m LED lamps nationwide by 2012.
- Contractor-government-bank model allows local governments pay LED projects by using saved electricity bills later on, which may largely accelerate their accepting and adopting LED technology.
- Synergy is emerging between TCI (PCB know-how, manufacturing facilities and listing status) and OOS (LED technology and associated experience).
- The JV has secured contracts for 55,000 street lamps, 40,000 of which will be delivered in 2010.
- The JV can possibly earn RMB14.6m and RMB22.7m, respectively, in FY12/10F and FY12/11F, translating into HK\$10.2m and HK\$15.9m net profit contribution to TCI.
- An undemanding 15.0x FY12/10F P/E valuation gives the JV a market value of HK\$340.5m. HK\$238.3m belongs to the listco, versus its HK\$170.4m increase in market capitalization since announcement of the JV agreement.

China targets on 3m LED lamps in 4 years. According to the "Thousands Lamps in Ten Cities" released by the Ministry of Science and Technology in 2009, China will push application of LED lighting technology nationwide in three stages.

- 2009: 1m LED lamps should be installed in 21 pilot cities in public works, such as street, tunnel, subway, etc. 60% of the lighting devices / components are made domestically. Annual energy saving is estimated at 220m KWh.
- 2010-2012: trial will expand into 50 cities and the scale will enlarge to 2m lamps. Component localization ratio will rise to 70%. Annual energy saving will be 1,000 KWh.
- 2013-2015: LED technology will be brought into general lighting area and account for 30% of the entire market, reducing 140b KWh electricity consumption each year.

**Tri-Party model to accelerate application.** Despite the 1m target, LEDInsight's estimate shows only ~130,000 LED street lamps were installed in 2009 by the 21 cities. We reckon the delay should be associated with local governments' decision-making and budgeting process, especially the latter. Notwithstanding, this situation may change this year as a contractor-bank-local government model has been developed in Guangdong, under which,

- Contractor is responsible for installation and maintenance of LED lamps, absorbing all costs.
- Banks provide necessary financial support.
- □ Local government offers subsidy at the beginning to cover only interest expenses on bank loans. It will then pay the contractor back in instalments within a certain period (~5 years) by using saved electricity bills.

Obviously, by shifting initial investment to the contractor side, this model can largely reduce the local government's concern and pressure on financial budgeting, encouraging it move more quickly in employing LED technology. Thus, we reckon the market will accelerate in 2010.

JV under establishment with experienced partner. OOS was founded early in 2003 and engaged in developing, manufacturing, packaging and installing LED

Ticker	0515 HK
Rating	Not Rated
Price (HK\$)	1.41
Target Price (HK\$)	n.a.
12m Price Range (HK\$)	0.26-1.78
Market cap. (US\$m)	43.4
Daily t/o (US\$m)	0.5
Free float (%)	16.2

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Year to D	ec

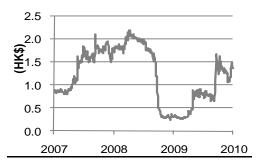
Year to Dec	06A	07A	A80
Turnover (HK\$m)	613.2	741.0	838.9
Net Profit (HK\$m)	39.1	60.0	27.7
EPS (HK\$)	0.180	0.250	0.120
P/E (x)	7.8	5.6	11.8
P/B (x)	1.40	1.10	1.01
EV/EBITDA (x)	5.7	4.0	4.8
Yield (%)	0.7	0.9	1.1
ROE (%)	16.2	21.8	8.6
ROCE (%)	11.4	15.0	7.8
N. Gear. (%)	56.4	69.9	39.9

Source: SBI E2-Capital

	09F	10F	11F
Consensus EPS (HK\$)	n.a.	n.a.	n.a.
Previous earnings (HK\$m)	-	-	-
Previous EPS (HK\$)	-	-	-

#### Price performance

Year to Dec	1m	3m	12m
Relative to HSI (%)	12.1	49.3	187.7
Actual price changes (%)	14.6	0.0	370.0



Source: Bloomberg

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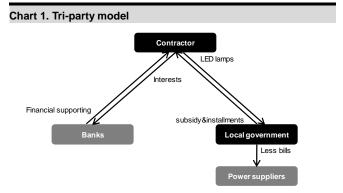
SBI E2-Capital

lighting systems. According to the JV agreement, 70.0% of RMB71.4m registered capital (RMB50.0m) will be contributed by TCI in cash and 30.0% by OOS by injecting 51.0% and 30.0% interest in two operating subsidiaries. The JV will have option to raise its stake in the two subsidiaries in the future.

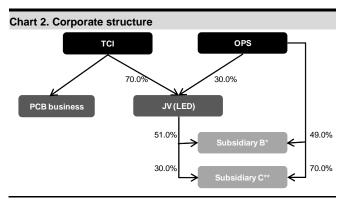
A win-win partnership. We observed clear synergy between TCI and OOS:

- ☐ TCI's PCB solution is one of key parts used in OOS's high-voltage LED lamp.
- TCI's manufacturing base in Zhongshan can accommodate OOS's operation, providing sufficient room (facilities and labor resource) for further expansion.
- □ TCI's listing position and financial capability will contribute in winning governmental projects, considering: 1) China's LED lighting market is still fragmented and rife with small suppliers; 2) the discussed tri-party model, which requires huge working capital for contractors, will likely prevail.
- OOS has core patented technology in illuminant, heat dissipation and driving areas. Mr. Zhu Jianhqin, owner of OOS, ranks third in the PRC in ownership of individual patents relating to LED lighting.

Strong project pipeline. Although the establishment of JV is still under some legal process, operation has already commenced. Contracts have been signed with Yangzhou, Shuangliu County and Foshan for total 55,000 LED street lamps, 40,000 of which will be delivered in 2010 and 15,000 2011. The company is also chasing several other projects (65,000 lamps), which construct pipeline for 2011 and thereafter. According to our understanding, TCI has been actively involved in the negotiation and the contracts will be implemented under the JV. A notable fact is that for all signed contracts, the government will pay directly, implying



Source: compiled by SBI E2-Capital



Source: compiled by SBI E2-Capital

- \* design and contract works of lighting products and energy saving products for city and roadway
- \*\* packaging of high power LED lighting products, manufacturing of lamps and energy saving products

minimal extra working capital requirement for the JV and a steady cash inflow in FY12/10F accompanied with products delivery. The tri-party model will be used in new projects.

Projects	No. of Street lamps	Status	Delivery
Yangzhou phase I	15,000	Secured on 19 Nov 09	Before Aug 10
Shuangliu County, Chengdu	30,000	Secured on 30 Nov 09	Half in 2010 and half in 2011
Foshan, Guangdong	10,000	Secured in Nov 09	Within 2010
Yangzhou phase II	15,000	Under negotiation	Within 2011
Qingyuan, Guangdong	10,000	Testing period	
Nanshan district, Shenzhen	20,000	Testing period	
Guangzhou	20,000	Under negotiation	
Secured total	55,000		
Potential	65,000		

Source: Company data

Significant contribution to TCI's bottom line. Price range of LED street lamp is RMB3,500-5,000. According to TCI, gross margin stands at ~50%. We used a more conservative 40.0% in our calculation. Although we do expect selling price to step down gradually, margin pressure might be moderate given the government (the buyer) has less intention to push price down in the tri-party model. Assuming a 40.5% profit sharing ratio (arithmetic average of shareholding in the two operating subsidiaries), the JV is anticipated to earn RMB14.6m in FY12/10F and RMB22.7m FY12/11F (net profit guarantee: RMB30.0m in the two years), 70.0% of which (HK\$10.2m and HK\$15.9m) will be spotted in the listco's bottom line.

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Table 2. Major assumptions and forecasts for the JV						
Year to Dec (RMBm)	10F	11F	12F			
LED street lamps installed (unit)	40	80	133			
ASP (RMB)	4,250.0	3,612.5	3,070.6			
Turnover	170.0	289.0	409.4			
Gross profit	68.0	109.5	146.1			
EBT	42.5	66.1	84.7			
Profit after tax	31.9	49.6	63.5			
MI	(19.0)	(29.5)	(37.8)			
Net profit	12.9	20.1	25.7			
Net profit attributable to TCI	9.0	14.1	18.0			
Net profit attributable to TCI (HK\$m)	10.2	15.9	20.4			
Gross margin (%)	40.0	37.9	35.7			
Operating margin (%)	25.0	22.9	20.7			
Effective tax rate (%)	25.0	25.0	25.0			

Source: SBI E2-Capital

Table 3. P&L					
Year to Dec (HK\$m)	06A	07A	08A	1H 08A	1H 09A
Turnover	613.2	741.0	838.9	397.5	331.5
Cost of sales	(495.3)	(596.2)	(730.0)	(334.5)	(283.5)
Gross profit	117.8	144.8	108.9	63.1	48.0
Other income	13.1	28.1	25.8	11.5	9.0
Other gains and losses	-	(0.5)	(1.5)	(8.1)	(4.1)
Selling and distribution expenses	(25.1)	(30.2)	(30.1)	(14.0)	(14.6)
Administrative expenses	(46.2)	(54.4)	(53.7)	(27.1)	(21.1)
Finance costs	(11.3)	(17.2)	(18.0)	(9.2)	(6.0)
Profit before tax	48.3	70.6	31.5	16.1	11.1
Income tax expenses	(9.2)	(10.6)	(3.8)	(2.6)	(1.3)
Profit for the year	39.1	60.0	27.7	13.5	9.8
Attributable to:					
Equity holders of the company	39.1	60.0	27.7	13.5	9.8
Minority interests	-	-	-	-	-
EPS - Basic (HK\$)	0.180	0.250	0.120	0.056	0.056

Source: Company data

**Sky-high valuation of the industry.** The LED sector is hot. Neo-neon (1868 HK), the only HK-listed LED company, is trading at 35.9x one-year forward P/E and 25.9x two-year forward. For A-share peers, the average P/E is even higher at 127.3x and 57.6x in FY12/09F and FY12/10F. By using a conservative 15.0x FY12/10F P/E, we calculate the LED JV's value at HK\$340.5m, 70.0% of which (HK\$238.3m) is attributable to TCI, versus HK\$170.4m increase in TCI's market value since 28 Sep 09, when the listco announced the JV agreement.

Table 4. Valuation of peers group								
		Market cap	Fiscal year	Historical				
Company	Ticker	(US\$m)	end	P/E (x)	1-Yr P/E (x)	2-Yr P/E (x)	P/B (x)	ROE (%)
TCI	515 HK	43.4	12/2008	14.1	n.a.	n.a.	1.0	8.6
LED - HK								
Neo-Neon	1868 HK	757.6	12/2008	64.1	35.9	25.9	1.9	5.7
LED - PRC								
Lianchuang	600363 CH	615.2	12/2008	170.9	n.a.	n.a.	5.6	4.0
Changjiang Electronics	600584 CH	952.5	12/2008	1,120.2	199.4	62.3	4.5	5.7
Furi Electronics	600203 CH	235.9	12/2008	n.a.	n.a.	n.a.	10.0	4.7
Sanan Optoelectronics	600703 CH	2,537.3	12/2008	109.9	112.9	86.0	13.9	n.a.
Silan Microelectronics	600460 CH	784.3	12/2008	235.1	87.0	54.7	8.2	1.6
				409.0	133.1	67.6	8.5	4.0
PCB - HK								
Daisho Microline	567 HK	40.0	03/2009	n.a.	n.a.	n.a.	0.7	(4.4)
Nam Hing	986 HK	43.8	03/2009	n.a.	n.a.	n.a.	12.9	(113.9)
Global Flex	471 HK	40.5	12/2008	n.a.	n.a.	n.a.	2.3	(124.1)
Sinotronics	1195 HK	63.3	06/2009	n.a.	n.a.	n.a.	0.5	(46.2)
Fittec	2662 HK	72.0	06/2009	n.a.	n.a.	n.a.	0.5	(3.5)

Source: Bloomberg

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