

Solus Advanced Materials Co., Ltd.

2021 4Q EARNINGS REPORT



The information herein is provided for your information purposes only and contains preliminary figures which may be materially different from the final figures.

Forecasts and projections contained in this material are based on current business environments and management strategies, and they may differ from the actual results upon changes and unaccounted variables. We make no guarantees and assume no responsibility for the use of information provided. We trust your decisions will be based on your own independent judgment.

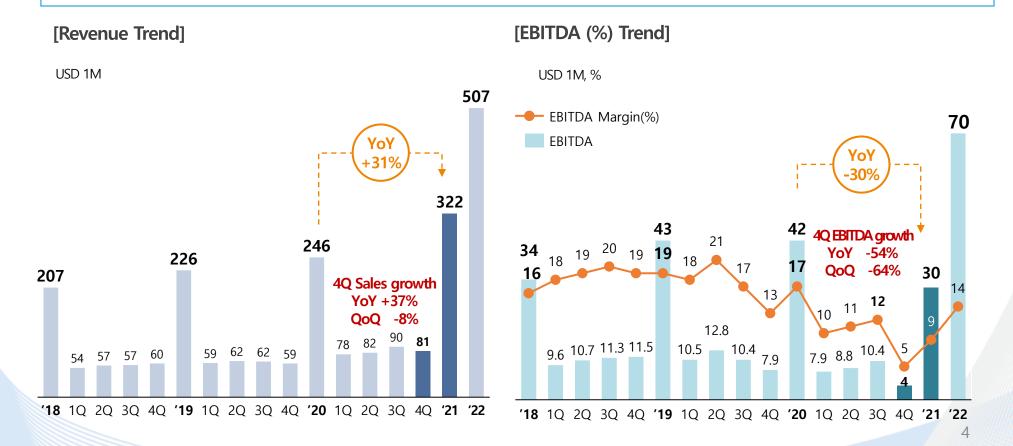
Financial data in this presentation is based on an IFRS-basis consolidated financial statements.

I. 2021 4Q & Full-year Earnings

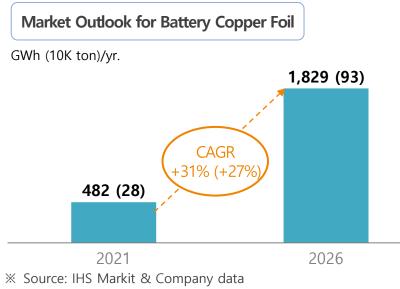
II. Consolidated Financial Statements

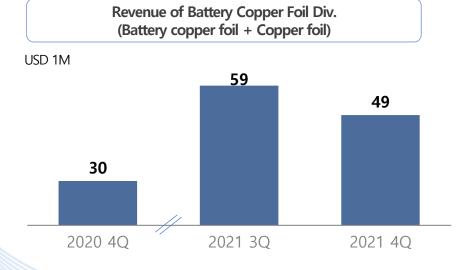
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- FY2021 Earnings: Achieved the largest revenue in all divisions since Solus foundation. (Expanding sales volume of battery copper foil Div., stable growth of copper foil Div., OLED portfolio expansion and customer diversification, optimization of BIO portfolio) Mass production of battery copper foil had caused expenses which were reflected in FY2021 earnings.
- FY2021 4Q: Sales decreased due to temporary reduction in battery copper foil supply, adjusted the supply via copper foil customers' stock management and 3Q pre-supply of biomaterials. Stable mass production set-up incurred expenses and electricity prices went up as global power supply failed to match demand.



Battery Copper Foil Div. (Battery Copper Foil & Copper Foil) 2021 4Q Achievements & Plan





Market Outlook for High-end Copper foil for 5G/Semiconductors





* Source: Prismark Report_IDTechEx 5G Technology Marketand

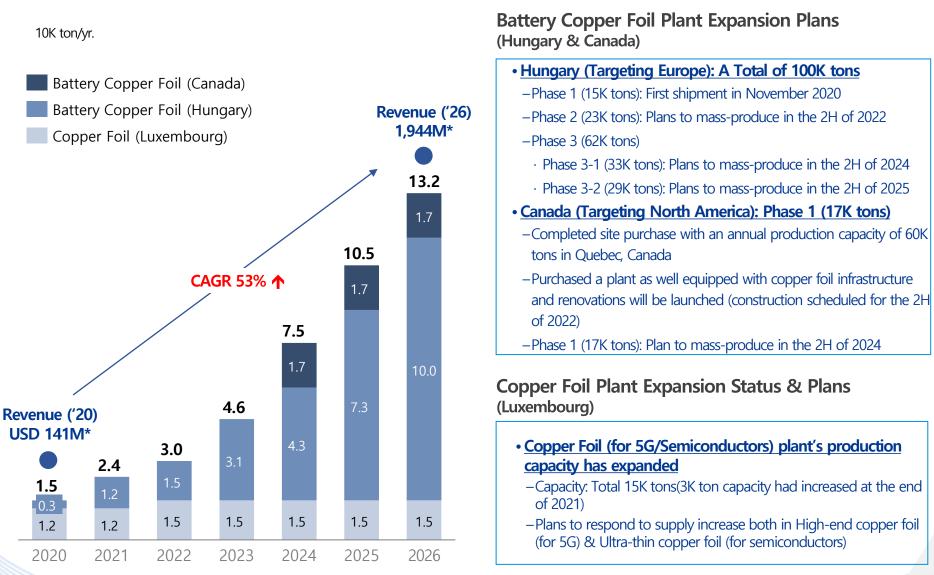
4Q 2021 Achievements & 2022 Plan

- <u>Achievements: Increased by 64% (YoY), Decreased by 15% (QoQ)</u>
- -Battery copper foil: Signed a new supply contract with a global company in November.
- -Copper foil: Ultra-thin materials for semiconductors were approved by SK Hynix in November. Copper foil capacity for 5G expanded.

Plan: Response to increasing demand & customer diversification

- -Battery copper foil: Supply volume will increase, and new/additional supply agreements will be made in 1H 2022.
- Copper foil: Supply expansion/quality approval for Low Loss product will be expected based on the growing copper foil market in high-end 5G/semiconductors.

Battery Copper Foil Div. Mid-to Long-term Plans for Production & Plant Expansion



× Based on year-end gross capacity

X The average monthly exchange rate of 4Q, '21

Battery Copper Foil Div. Plant Expansion in Canada

Market Entry Process

- The battery copper foil market in North America is expected to make a rapid annual growth (approx. 28%, source: HIS Market) from 2021 to 2030.
- The market is expanding around JV between OEMs and top-tier battery manufacturers.
- The battery copper foil plant was established according to the demands in the North American market as battery manufacturers have made aggressive investments in the region.

Reasons for Choosing Quebec, Canada

- Because there was a CFL subsidiary in Canada in the past, **it is possible to enter the market much quickly** by renovating the existing plant with production infrastructure for copper foil.
 - -Using the existing factory instead of building a new one is effective as maintenance/investment costs and licensing periods will be reduced.
- Quebec has lower and more stable electricity cost and is eco-friendly in terms of ESG than other North American regions.
 - -More than 99% is hydroelectric power, resulting in **low and stable electricity costs in North America**. **As new renewable energy, it can respond to eco-friendly policies such as RE100**
- According to the "Certification of Origin" provisions in North America, no customs applied when exporting battery copper foil to America.
 - -No customs applied among 3 North American nations. Corresponds to the electric vehicle subsidy policy provided when production is higher than 75% in the region.
- Various investment incentives offer financial support for investment expenses.

Milestones & Investments

- <u>Solus plans is planning to invest approx.</u> \$350M for mass-production in the 2H of 2024, <u>achieve production capacity of 17K tons in North America</u>
- -Construction to start in 2022 and mass-production by the 2H of 2024.
- -Investments: Approx. \$350M by 2024 (Plant site purchased in Nov 2021).
- -With the aim of gross capacity of 17K tons, additional expansion will be considered according to market/customer conditions.



Battery Copper Foil Div. Entry into Ultra-thin Copper Foil Market

- The global market scale for ultra-thin copper foil is expected to be around 959M USD in 2026 (memory, HDI (SLP), SiP (System in Package), 5G Chipset, CPU/AP, etc.)
- Solus' ultra-thin copper has been officially approved for the first time in the domestic copper foil industry that <u>it can be</u> <u>applied to MSAP (Modified Semi-Additive Process)</u>, the next-generation micro-circuit manufacturing method.
- <u>Miniaturization of circuit lines</u> led to the development of ideal copper foil properties for MSAP that realize <u>compactness, integrity and high performance of</u> <u>semiconductors</u>.
- Product Application and Quality Approval
 - **Adopted in next-generation wearable devices** by domestic manufacturers in Oct 2020.

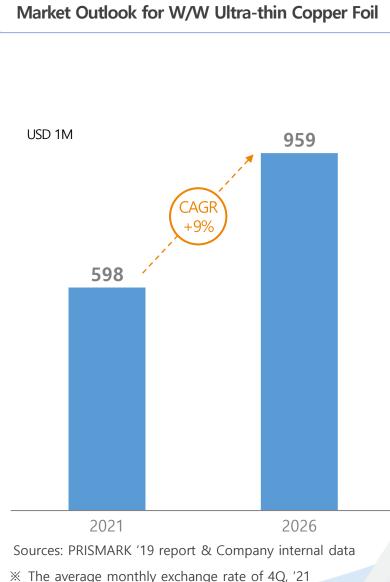
. Received an order for high-end $2\mu m$ ultra-thin copper foil for the first time in Korea, which had been monopolized by Japanese manufacturers.

- Received SK Hynix's final approval to produce ultra-thin copper foil for semiconductors

. Including reliability test, Solus passed all tests required for material approval in just a year and a half, which usually takes 2 years.

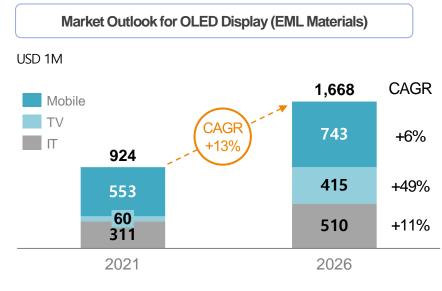
. Expected to make sales at the beginning of 2023.

Investor Relations 2021



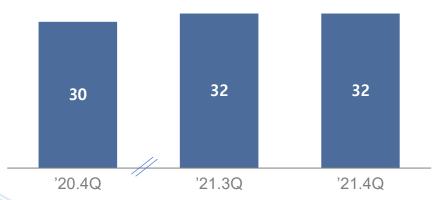
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Advanced Materials Div. (OLED & Bio) 2021 4Q Achievements & Plan

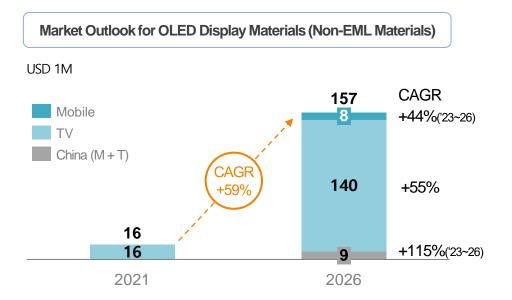


Advanced Materials (OLED & Bio) Revenue

USD 1M



X Based on revenues of Advanced Materials Div., sales of OLED account for 60~70%



2021 4Q Achievements & Plan

- <u>Achievements: Increased by 9% (YoY) and by 3% (QoQ)</u>
- -OLED: Customer diversification and product portfolio expansion with LGD HTL, QD display fillers, etc.
- -Bio: Mid to long-term Ceramide supply agreement with a major global company in October.
- Plan: Expand overseas customers and sign supply agreements
- –OLED: Plant in China(Changshu) has been set up with mass production systems. (Scheduled to mass-produce in 2H 2022)
 –Bio: Ceramide supply agreements with a global major cosmetics company will be made in 1H 2022.

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									USD 1M
Items	'19. 12	'20. 03	'20. 06	'20. 09	'20. 12	'21. 03	'21. 06	'21. 09	'21. 12
Current Asset	199	161	151	158	414	335	331	316	332
Non-current Asset	228	265	292	305	359	380	441	480	520
Total Asset	427	425	443	464	773	715	772	796	852
Current Liabilities	159	138	135	120	154	162	211	237	241
Non-current Liabilities	146	162	178	212	169	110	113	113	171
Total Liabilities	305	300	313	331	323	272	324	350	412
Capital Stock	3	3	3	3	4	4	4	3	3
Total Equity	121	125	130	132	450	443	448	446	440
Debt-to-Equity Ratio	251%	240%	241%	250%	72%	61%	72%	79%	94%
[Loan Payable]									
Loans Payable	159	173	207	218	228	139	180	208	253
Cash	82	45	55	45	281	178	166	141	118
Net Debt	77	128	151	173	-53	-39	14	67	135

% The above data for 2021 4Q is based on unaudited financial statements.

X The exchange rate is based on the quarter-end exchange rate.

	110			'20			'21					
ltems	'19	1Q	2Q	3Q	4Q	계	1Q	2Q	3Q	4Q	계	
Revenue	60	59	62	62	59	246	80	82	90	81	322	
COGS	40	40	40	41	41	164	63	66	71	65	256	
Gross Profit	20	20	22	20	18	82	16	16	19	16	66	
SG&A	11	12	13	14	16	56	16	14	16	20	64	
EBIT	9	7	9	6	2	26	0.4	2	3	-4	2	
(%)	15%	13%	15%	10%	15%	10%	0.5%	2.3%	3.6%	-4.4%	0.5%	
Gain/Loss on Interest	-1	-1	-1	-1	-2	-5	-2	-1	-1	-0.3	-4	
Gain/Loss on foreign currency transaction	-1	1	0.2	-1	-6	-6	5	2	0.7	-0.2	7	
Gain/Loss on foreign currency translation	-2	1	-3	-4	-8	-14	2	-2	2	-0.2	1	
Earnings before Interest and Taxes	6	7	6	-1	-15	-2	3	-0.3	2	-4.4	0.5	
Income Taxes	2	3	1	1	2	7	4	-3	2	-2.5	0.4	
Net Income	4	5	5	-2	-17	-9	-1	3	0.6	-2	0.1	
Income for controlling shareholder	4	5	5	-2	-17	-9	2	5	2	1	10	

USD 1M

※ The above data for 2021 4Q is based on unaudited financial statements.※ The exchange rate is based on the average exchange rate

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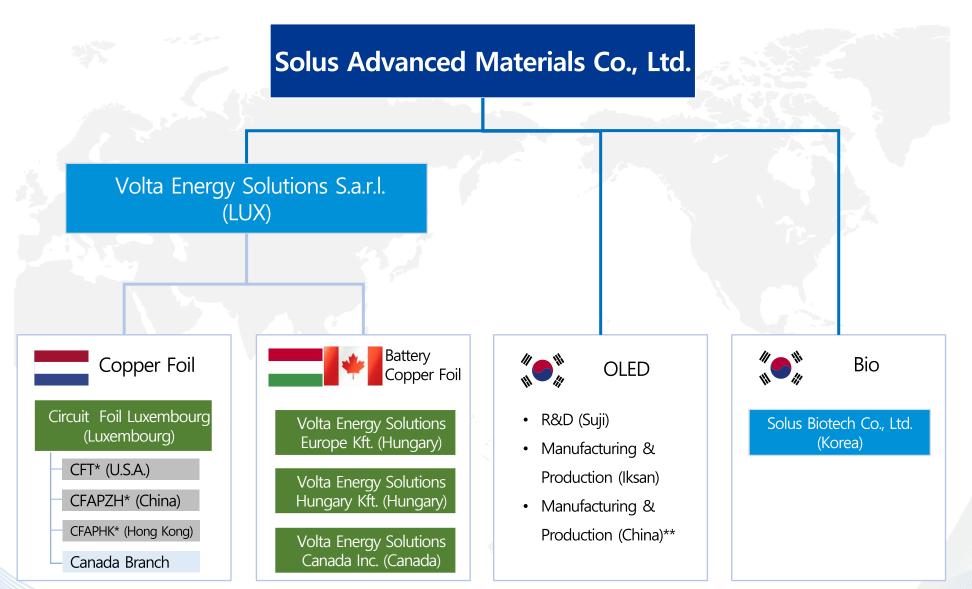
Company Intr	oduction	Business Introduction							
<u>Company Name</u> <u>CEO</u>	Solus Advanced Materials Co., Ltd. Daeje Chin & Kwangpyuk Suh		Battery Copper Foil	Copper foil for EV batteries					
Established Listed	2019. 10. 01 2019. 10. 18 (KOSPI)	Battery Copper Foil	Copper Foil	Copper foil for 5G Networks & electronic devices					
<u>Total Assets</u> <u>Employees</u>	USD 852M* (As of end of Dec '21) 1,054 (As of end of Dec '21)	Division	FOII	(PCB)					
Based	627 Seodong-ro, Iksan-si, Jeollabuk-do		OLED	OLED and display materials for smartphone, TV, laptop, etc.					
- <u>Battery Copper Foi</u> - <u>Copper Foil</u>	Hungary, Canada (R&D/Production/Sales) Luxembourg (R&D/Production/Sales)	Advanced Materials		Natural-based materials for	Regingy				
- <u>OLED, Bio</u>	Yongin (R&D/Sales), Iksan (Production), China (R&D/Sales)	Division	Bio	cosmeceutical, pharmaceutical and nutraceutical	A real real real real real real real real				

※ The above data for 'Total Assets' (as of end of Dec '21) is based on unaudited financial statements.



Domestic & Overseas Corporations

Investor Relations 2021



* CFT(Circuit Foil Trading Inc.) / CFAPZH(Circuit Foil Asia Pacific Zhangjiagang) / CFAPHK(Circuit Foil Asia Pacific Hong Kong) ** Solus Advanced Materials (Changshu) Co., Ltd

I/S

Items	5	'18.1	Q	'18.:	2Q	'18	.3Q	'1	8.4Q	1	19.1Q	'19.2Q	'19.3Q	'19.4Q
B/S		1,06	56.50	1,1	21.70	21.70 1,7		1,118.10			1,137.80	1,156.80	1,201.30	1,157.80
I/S		1,07	72.27	1,0	75.37 1,		,090.78	1,100.19			1,124.97	1,145.78	1,161.94	1,165.46
Items	12	20.1Q	'2().2Q	'20.	.3Q	'20.4	Q	'21.1C	2	'21.2Q	'21.3Q	'21.4Q	2021(P)~ 2025(P)
B/S		1,222.60	1,	,200.70	1,1	73.50	1,088.00		1,133	.50	1,130.00) 1,184.90	0 1,185.50) 1,100.00

1,113.62

1,121.33

1,157.95

1,183.14

1,179.96

1,200.52

Source : First notified basic exchange rate from Hana BankSource : Internal materials for projections

1,206.70

1,193.03

1,100.00

Solus Advanced Materials Co., Ltd. www.solusadvancedmaterials.com