



March 2015

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- Established technology platform
- Sales increasing in both volume and A\$ terms
- Broad range of sales growth opportunities being actively pursued
- Cost reduction and margin improvement delivered (with more to come)
- Engagement with over 20 companies in the automotive industry and supply chain – moving to evaluations and licence opportunities
- MoU signed with Global Tier-1 Automotive components company for truckStart application

- Export-driven supercapacitor manufacturer founded in 1996
- Leader in design & development of thin, prismatic, high power supercapacitors for portable & space-constrained devices
- Unique technology which is built on in-house R&D
- More than 20 million cells sold, including to global, brand name customers
- Applications in multiple high-growth markets, including IoT, wearable technology & automotive applications (large capacity devices)
- Strong IP platform
- Admitted to the LSE AIM in 2006

EQUINOX
PAYMENTS

ingenico

SECURE

VeriFone
VERIFONE

QUALCOMM

Roche



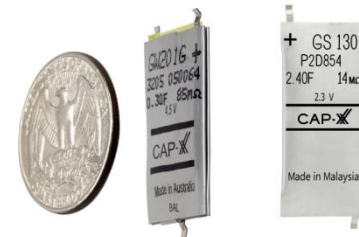
MOTOROLA SOLUTIONS

VIKING
MODULAR SOLUTIONS™
SANMINA-SCI CORPORATION

Honeywell

Intermec

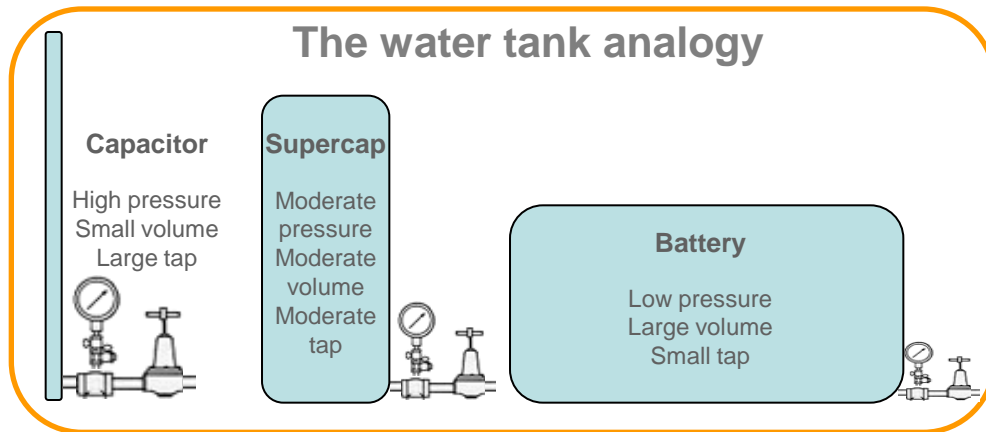
- Supercapacitors store large amounts of energy very quickly
 - *larger amounts of energy than a normal capacitor can deal with*
 - *over time periods that are too short to charge a battery*
- Supercapacitors stockpile energy for release in bursts
 - *e.g. transmitting radio signals*
- To date CAP-XX's supercapacitors have mainly been used in data transmission devices
 - *point of sale terminals, two-way radios, wireless modems, digital cameras, PDAs etc*
- Rapidly developing market for large capacity devices for automotive market
 - *energy capture and storage, including auto start-stop applications*



- Secure power**
 Provides reliable interim power, even if the primary source fails or fluctuates
- Store energy**
 Stores energy from low power sources, enabling support for high power loads
- Pulse power**
 Supplies peak power to the load while drawing average power from the source

User benefits

- Reduce the size & weight of the battery / power source required
- Improve run-time & battery life, particularly at low temperatures
- Enable more power-hungry features, being used more often
- Can replace battery & harvest energy from clean sources
- Protect against accidental power loss or fluctuations
- Doesn't need to be replaced vs. batteries limited discharge cycles
- Environmentally friendly & safe

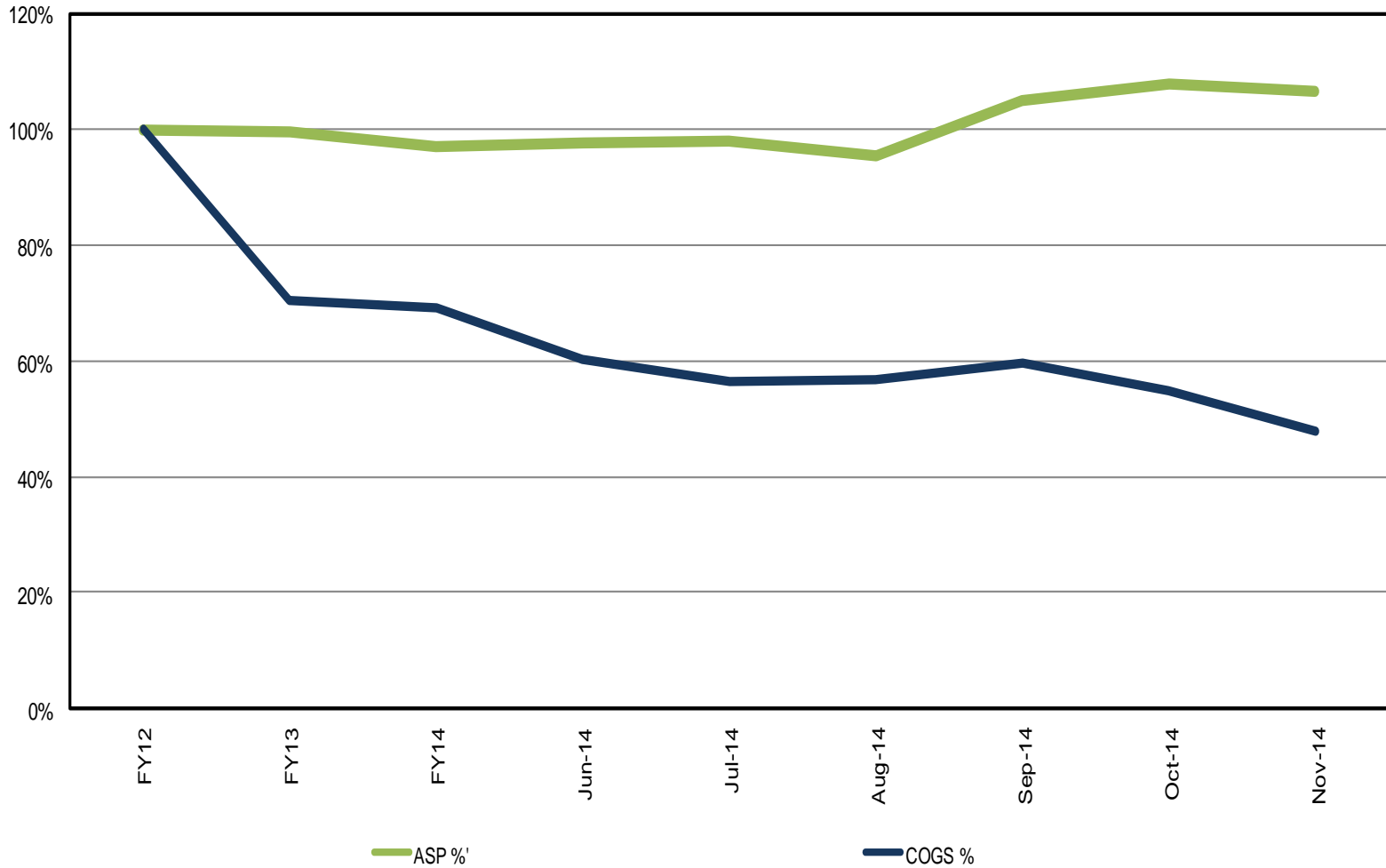


Profit & Loss \$AUD 000's	Half-year ended 31 December 2014 <i>(unaudited)</i>	Half-year ended 31 December 2013 <i>(unaudited)</i>	Full-year ended 30 June 2014 <i>(audited)</i>
Sales - Units (DCEs) - ASP	643.6 US\$ 3.08	610.0 US\$ 3.28	1,088.4 US\$ 3.30
Product Revenue	2,228	2,183	3,917
Royalty – Murata	37	39	53
Revenue from sale of goods and services	2,265	2,222	3,970
Cost of sale of goods and services	(1,608)	(1,848)	(3,430)
Operational Margin on sales of goods and services	657	374	540
Nationgate Amortisation	-	194	194
Reported Gross Margin	657	568	734
Other revenue	7	30	54
Other income	99	94	36
Total expenses	(2,110)	(2,334)	(4,539)
Tax benefit	475	450	1,172
Reported Net Loss	(872)	(1,192)	(2,543)
EBITDA	(1,269)	(1,729)	(3,547)

Balance Sheet AUD 000's	As at 31 December 2014 <i>(unaudited)</i>	As at 31 December 2013 <i>(unaudited)</i>	As at 30 June 2014 <i>(audited)</i>
Cash	546	2,730	900
Other current assets	2,062	1,832	2,574
Total current assets	2,608	4,562	3,474
Total non-current assets	612	631	614
Total assets	3,220	5,193	4,088
Total current liabilities	1,710	1,457	1,792
Total non-current liabilities	37	127	40
Total liabilities	1,747	1,584	1,832
Net Assets	1,473	3,609	2,256

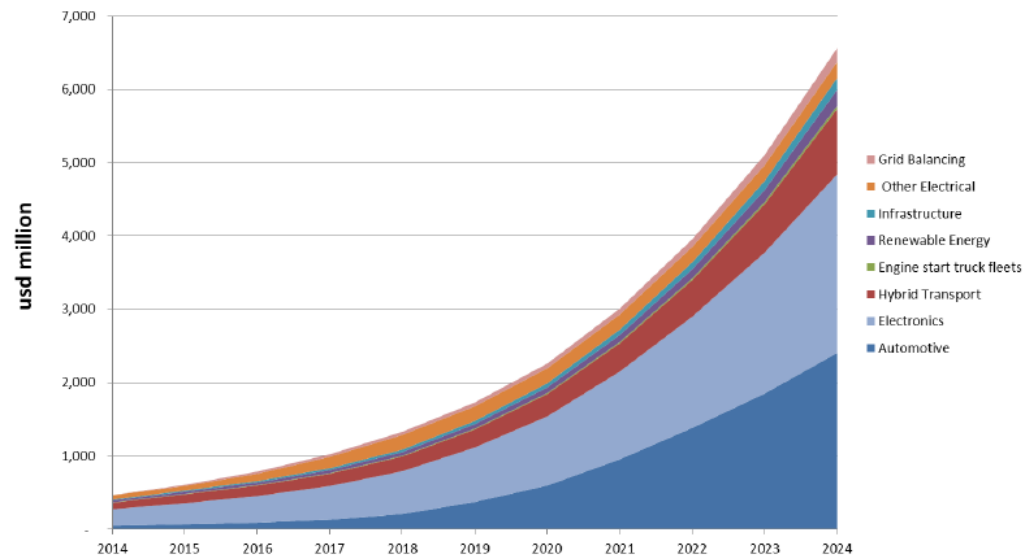
Cash Flow \$AUD 000's	Half-year ended 31 December 2014 <i>(unaudited)</i>	Half-year ended 31 December 2013 <i>(unaudited)</i>	Full-year ended 30 June 2014 <i>(audited)</i>
Net cash outflow from operating activities	(292)	(682)	(2,491)
Net cash outflow from investing activities	(89)	(29)	(85)
Cash flows from financing activities	112	2,361	2,361
Net increase (decrease) in cash and cash equivalents	(269)	1,650	(215)
Opening cash	900	1,106	1,106
Effects of exchange rate changes	(85)	(26)	9
Closing cash	546	2,730	900

- In June 2014 target was to reduce total production cost by ~30%
- As of November 2014 savings of 27% had been achieved
- Board now expect total cost reduction of 36% from June 2014 to June 2015
- Board believes that further savings can be achieved beyond June 2015
- Benefits
 - Will allow CAP-XX to be cost-competitive on higher volume business, whilst increasing the margin contribution
 - Material & process improvements already delivering improved product performance
 - More focused product range, will drive further reductions in production costs & working capital over time
 - Additional raw material cost reductions are currently being investigated



- CAP-XX market share has been fairly steady in existing electronics markets
- Growth in these markets has been modest to date
- Demand for thin, small devices (such as wearable electronics) & growth in energy-harvesting as a power source will drive rapid growth in these markets
- Competitive products & cost reductions should allow share growth in an expanding market
- Large cell markets have also been growing strongly
- CAP-XX now has the large cells needed to enter these markets

Supercapacitor Market 2014-2024 by Market Application



Source: IDTechEx 2014.

IDTechEx is a leading provider of independent market research, business intelligence and events in emerging technologies.

Information on the market size and growth rates for supercapacitors in this presentation has been drawn from their report titled "Supercapacitors, 2014-2024".

Global Tier-1 Automotive components company has signed a mutually exclusive MOU covering future sales of CAP-XX truckStart units

- MoU counterparty believes there is a large market for a supercapacitor-powered truck starter unit
- Truck market in US is 9-12 million batteries p.a.
- One supercapacitor unit can replace 1 in 3 or 1 in 4 truck batteries
- Competitor is already in market with US\$1,050 - \$1,250 per unit
- US TAM = US\$1.8bn
- MoU counterparty has purchased prototypes for testing. Next step will be field tests



CAP-XX truckStart

The permanent solution to flat truck batteries

Keep your fleet going no matter what, no matter when, no matter where. The CAP-XX **truckStart** engine starter unit will bring your truck's engine to life when its batteries won't, because **truckStart** NEVER runs flat, so your truck will never be stranded.

Introducing extreme cranking power

Increased electrical loads and anti-idle laws have placed more demand on truck batteries than ever before.

That's why CAP-XX has developed a powerful supercapacitor module that is simple to install, requires virtually no maintenance and is good for literally thousands of engine starts – even in the most extreme temperatures. Gone are the days of stranded vehicles, jump starts, late deliveries and high recovery costs.

Check out these features and benefits:

- Scalable for all types of trucks, including medium, heavy and refrigerated (class 4 to class 8)
- Reliable starting from -40°F to 140°F (-40°C to +60°C)
- Uses supercapacitor technology. No lead. No acid.
- Improves overall system power performance
- Higher power (1800 CCA for 3 seconds) means faster engine starting
- Easily cranks large diesel engines
- Cost effective (no more costly jump starts)
- Long life
- Recharges fully in less than 3.5 minutes (initial charge is 6 minutes or less)
- Solves your battery problems as a result of new anti-idle laws
- Low maintenance, low total cost of ownership
- Shock & vibration resistant
- Built-in overcharge protection
- Industry standard BCI Group from 31 form factor
- Simple installation – replaces one Group 31 battery



Global Tier-1 Automotive systems company has bought 500F custom cells for a trial in EV racing cars prior to anticipated broader adoption in sports cars. Client very pleased with test results to date

- Timetable is:
 - 2015 module development & laboratory testing (estimated volume 4,000)
 - 2016 track testing (estimated volumes 15,000)
 - 2017/2018 race series starts

Global Tier-1 Automotive components company approached CAP-XX to licence a patent

- They have tabled initial offer of upfront license fee plus sliding scale royalty on sales
- Currently in active negotiation



Established market, poised for explosive growth: \$20 billion in 2015, forecast to reach almost \$70 billion in 2024 (IDTechEx)

1. Social (Infotainment & Communication)

- CAP-XX example: **Activity wristbands**
 Coin cell battery can't support vibration alert.
 Supercapacitor provides peak power

2. Sport (Activities & Goals)

- CAP-XX example: **Shoe sensors**
 Kinetic transducer harvests energy.
 Supercapacitor provides power

3. Medical (Health & Wellbeing)

- CAP-XX example: **e-Call wristbands**
 Supercapacitor powers radio in emergency &
 monitoring device for Alzheimer's patients
- CAP-XX example: **Insulin pumps**
 Supercapacitor powers pump & wireless
 comms (final prototype now in production)

Shoe sensor



Fitness wristband



Drug delivery pump



Medical monitoring wristband



1. Electricity meters

- Power supply: 120/240V mains supply
- CAP-XX benefits: Backup power for power failure alert
- CAP-XX example: ASL modem for XP Sprint e-meters

ASL PRI Wireless Modem for XP Sprint Electricity Meters



2. Gas meters

- Power supply: Long-life batteries
- CAP-XX benefits: Peak power to modem; Backup power for failure messaging & emergency valve operation
- CAP-XX example: Flonidan SciFlo GXS gas meter

Flonidan GXS Gas meters



3. Water meters, Flow meters, Leak & Level monitors

- Power supply: Long-life batteries or Energy harvesters
- CAP-XX benefits: Energy storage; Peak power to the modem; Backup power for messaging & shutdown
- CAP-XX example: ABB Aquamaster; Telular TankLink

ABB Aquamaster 3



Telular TankLink 90 Tank level meter



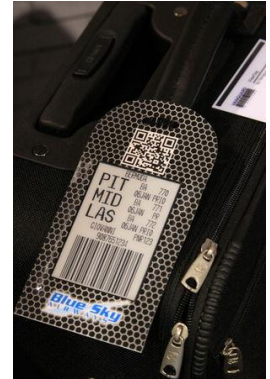
4. Taxi & other service meters

- Power supply: Current-limited 12V battery
- CAP-XX benefits: Backup power during outages & transients
- Example: Hale Rear View Mirror taxi-meter

Hale RVM Taxi-meter



- Energy harvesters are increasingly being used to power autonomous products & wirelessly networked devices
- Ambient energy sources include:
 - **Solar** (photovoltaic cells, thermoelectric generators, 'nantennas')
 - **Kinetic** (electromagnetic micro-generators, piezoelectric transducers & biomechanical from pedalling, walking, turning handles, pushing buttons)
 - **Radio** (inductive coupling & microwave 'rectennas', ambient or generated)
 - **Heat** (thermoelectric/Seebeck gradient & pyro-electric/Olsen cycle)
 - **Wind/Water/Fluids** (flow-powered micro-turbines)
- Supercapacitors store & deliver the harvested energy, enabling battery-free devices
- Major markets are:
 1. **Building control systems** (e.g. lights, heat, air-con, security, access)
CAP-XX example: Schneider Tango solar-powered lighting control
 2. **Industrial control systems** (e.g. vibration monitoring, flow/level control)
CAP-XX example: GE Ranger vibration-powered bearing health monitor
 3. **RFID tags** (e.g. tracking, identification, tolling)
CAP-XX example: Powercast Airline Luggage tags
 4. **Metering** (e.g. remote monitoring systems)
CAP-XX example: ABB solar-powered Aquamaster meter



RFID luggage tags (Powercast)



Solar building controls (Schneider "Tango")



Vibration-powered bearing monitors (GE "Ranger")

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