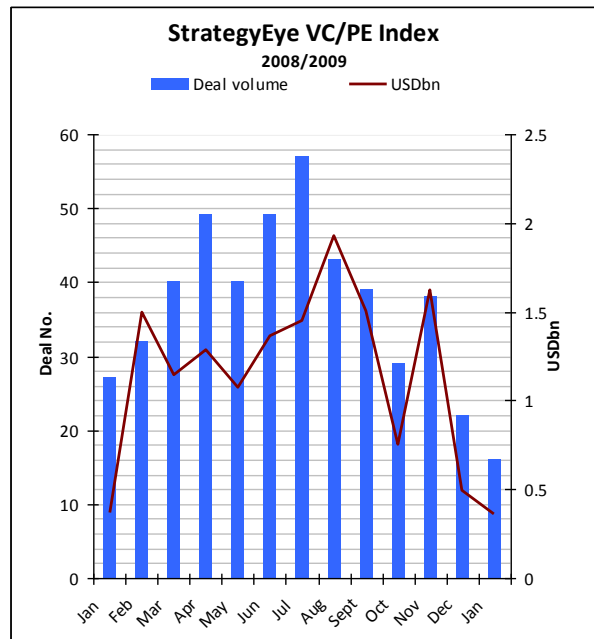
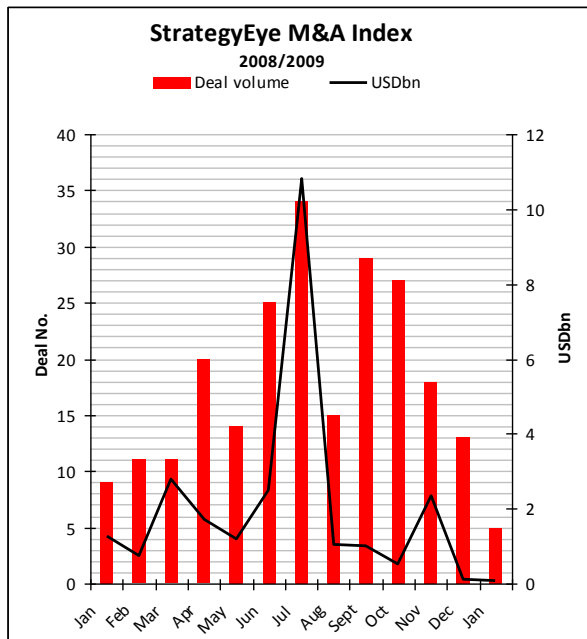


StrategyEye Weekly Dealflow Report – January 12-16, 2009

Deal Type	Transactions Tracked	Transaction Value (completed)	Aggregate Transactions 2009	Aggregate Value of Transactions 2009
M&A	3	n/a	8	USD 48.64m
VC/PE	5	USD 124.5m	13	USD 164.8m
Partnership	14	-	23	-



FEATURED DEAL

[LG to supply batteries for GM's Volt](#)

South Korea's LG Chem will supply lithium-ion batteries to General Motors (GM) for its plug-in hybrid electric vehicle (PHEV), the Chevrolet Volt. Under the five-year deal, LG will manufacture the battery cells at its Korean facility and GM will assemble them at a plant to be constructed in Michigan. Until GM's plant begins operating, LG's North American subsidiary Compact Power will build the battery packs.

LG was competing for the contract against a collective comprised of Germany's Continental and US-based A123Systems. GM CEO Rick Wagoner says LG was picked due to the performance, production readiness, efficiency and durability of its products.

GM expects to begin commercial production of the Volt late next year and will offer a 10-year 150,000 mile warranty. LG says its battery warranty will match GM's. The company hopes to produce 10,000 cars in the first year, before ramping up to 60,000.

LG plans to invest USD1bn on lithium-ion batteries by 2013 with the aim of grabbing a large chunk of the supplier market for hybrid-electric and all-electric vehicles.

SOLAR

[Enviromena to build USD50m solar farm for Masdar city](#)

Enviromena Power Systems is developing a 10MW solar farm for Abu Dhabi's sustainable city, Masdar. The project, which is expected to cost USD50m, will be comprised of 87,777 thin-film and crystalline solar modules. First Solar will meet the thin-film solar requirements of the development, by supplying Enviromena with 5MW of its cadmium telluride-based panels.

[REC and LG in USD340m solar deal](#)

Norwegian solar group Renewable Energy Corporation (REC) will supply Korea's LG Electronics with solar wafers, in a NOK2.2bn (USD340m) deal. REC will supply the multicrystalline silicon wafers from 2010 through to 2014. REC expects prices to decrease over the contract period depending on LG's ability to use thinner wafers.

[Nippon Oil and Sanyo to form 50-50 thin-film solar venture - Rumour](#)

Japan's Sanyo Electric and Nippon Oil are planning to launch a thin-film solar joint venture, according to the Nikkei Business Daily. Each company would take a 50% equity stake, with Panasonic also likely to be involved following its agreed acquisition of Sanyo, which is expected to go through in April. In September, Sanyo and Nippon Oil announced that they were exploring the possibility of a thin-film solar joint venture.

[Starwood buys majority stake in solar project developer](#)

Connecticut-based private equity firm Starwood Energy is paying an undisclosed sum to acquire a majority stake in Nautilus Solar Energy. Nautilus finances and develops commercial and utility-scale solar farms. Starwood has committed to providing USD50m to fund future solar projects.

WIND

[Airtricity to build 260MW Dutch offshore wind farm](#)

Scottish and Southern Energy (SSE) subsidiary Airtricity has received approval for a 260MW offshore wind farm by the Dutch Ministry for Transport, Public Works and Water Management. The West-Rijn wind farm will consist of 72 turbines off the coast of the Dutch North Sea. Airtricity now plans to get financial support for the project through the renewables support mechanism – an initiative of the Dutch government.

[GE forms wind turbine gearbox JV with A-Power](#)

GE Drivetrain Technologies and A-Power Energy Generation Systems are forming a joint venture to develop a manufacturing facility for wind turbine gearboxes. GE Drivetrain Technologies will majority own the gearbox manufacturing business in China, which will operate under the name GE Transportation.

In addition the GE unit will supply A-Power with more than 900 2.7MW wind turbine gearboxes, from 2010. Based in China, A-Power is a developer of wind turbines and wind farms.

[EDF to build 100MW Minnesota wind farm](#)

EDF Energies Nouvelles (EDF EN), the renewables arm of French energy company Electricite de France, plans to build a 100.5MW wind farm in the US state of Minnesota. The Wapsipinicon wind farm, which is to comprise of 67,

1.5MW wind turbines supplied by GE Energy, will sell its electricity to Southern Minnesota Municipal Power Agency under a 25-year contract.

[Turkana to build USD760m wind farm in Kenya](#)

Turkana Wind Power plans to build a 300MW wind farm in Kenya scheduled for completion in 2012. The project, which will be located in Loiyangalani in northern Kenya. It will cost approximately USD760m and comprise 360 turbines to be supplied by Vestas Wind Systems. According to the company, the African Development Bank could fund 30% of the project. Other investors are expected to include investment banks in the Middle East, South Africa and the US.

[Darby invests in Korean wind energy](#)

US-based private equity firm Darby Overseas Investments has paid an undisclosed sum to acquire a 32.4% stake in Gangwon Wind Power. The company owns and operates the country's largest wind farm. The investment was made through Darby's Korea Emerging Infrastructure Fund, which is jointly managed with Korean financial firm Hana Bank.

BIOFUEL

[Proteus and Syngenta to develop biofuel enzymes](#)

French biotech firm Proteus is partnering with Swiss agribusiness Syngenta to develop enzymes for biofuel production. "We believe that our strategy based on optimized enzymes holds tremendous potential for the creation of next-generation biofuels" says head of enzymes R&D at Syngenta, Dr Ian Jepson.

[Agresti Biofuels to build waste-to-ethanol plant in Vietnam](#)

Indianapolis-based Agresti Biofuels is forming a joint venture with Vietnam-based Phuc Yen Company, to build a waste-to-ethanol facility in the country. The venture, called Agresti Vietnam, will use gravity pressure vessel technology licensed by GeneSyst International to produce ethanol and various byproducts from municipal solid waste. Development of the project is expected to begin in spring.

ENERGY EFFICIENCY

[Energy management firm MicroPlanet partners with Ergon Energy](#)

Seattle-based energy management firm MicroPlanet will supply its technology to Australian electricity utility Ergon Energy. MicroPlanet's voltage management technology aims to reduce the amount required by electrical equipment and appliances to a minimum level, thereby reducing overall energy consumption. The company claims its devices can reduce energy usage by up to 12%. Ergon was initially using the technology internally, but now plans on supplying it to other utilities and commercial customers.

ENERGY STORAGE

[Boston Power raises USD55m for lithium-ion batteries](#)

Battery developer Boston Power has raised USD55m in a Series D funding round led by Foundation Asset Management. Return investors include Oak Investment Partners, Venrock, GGV Capital and Gabriel Venture Partners. The firm is developing lithium-ion battery technology for use in consumer electronic devices such as

laptops, mobile phones and PDAs. Boston Power says the funding will be used to scale up sales, marketing, manufacturing and research and development.

[ReVolt raises USD13m for battery technology](#)

Norwegian battery developer ReVolt Technology has raised EUR10m (USD13m) in a Series B funding round. Participants in the round include RWE Innogy and return investors NorthZone Ventures, SINTEF, SOFINNOVA Partners, TVM Capital, Verdane Capital and Viking Venture. In 2007 the company raised EUR5.5m (USD7.2m) in the first tranche of the round.

[Ultracapacitor firm Graphene Energy raises USD500,000](#)

Texas-based energy storage startup Graphene Energy has raised USD500,000 in seed financing from Quercus Trust and 21Ventures. The company is licensing graphene-based ultracapacitor technology developed at the University of Texas and The College of William & Mary in Virginia.

[Johnson Controls-Saft and Azure strike hybrid partnership](#)

Johnson Controls-Saft (JCS) is partnering with Azure Dynamics to supply hybrid battery systems to commercial vehicle fleets in North America. JCS, a joint venture between US-based Johnson Controls and French battery developer Saft, will provide lithium-ion battery technology for integration into Azure's hybrid electric drivetrains. A JCS facility in Milwaukee will manufacture the battery systems.

CLEAN TRANSPORT

[Ford partners with Magna to build EV by 2011](#)

Ford Motor Company is partnering with Canadian parts supplier Magna International to develop an all-electric vehicle (EV). Talking at the Detroit auto show, Ford's chief of global product development, Derrick Kuzak says that the model will be comparable to the Focus, and will use lithium-ion batteries capable of traveling 100 miles on a single charge. The companies hope to begin producing the car on a large-scale by 2011.

[Fallbrook raises USD25m for efficient transmission](#)

California-based Fallbrook Technologies has raised USD25.4m in a funding round led by NGEN Partners and Robeco. Support for the round was provided by advisory firm Windstone Capital Partners. Fallbrook develops increased efficiency mechanical transmissions for vehicles, wind turbines and industrial equipment. The company plans to use the funding to commercialise its transmission technology and to fund further research and development.

[EV firm Think escapes bankruptcy](#)

Norwegian electric vehicle (EV) developer Think Global has secured a bridge loan of NOK40m (USD5.59m) from investors including Ener1 Group. The financing will be used to restart production of its Think City EV, which ground to a halt in December following trouble raising equity capital. Think, which has gone bankrupt twice since its inception in 1990, had hoped to receive NOK280m (USD40m) in loan guarantees from the Norwegian government to see it through.

[Mitsubishi to supply Peugeot Citroen with EVs – Rumour](#)

Japanese car manufacturer Mitsubishi Motors will supply PSA Peugeot Citroen Group with its i-MiEV electric vehicle (EV), according to the Nikkei. The partnership would enable Mitsubishi's cars to use PSA's large distribution network to proliferate the European market. The company could supply more than 10,000 cars per year by 2011.

POLLUTION MANAGEMENT

[Ze-gen raises USD20m for waste gasification](#)

Boston-based startup Ze-gen has raised USD20m in a Series B funding round led by Waroz Holding Company, a subsidiary of Oman-based conglomerate, Omar Zawawi Establishment. Return investors include Flagship Ventures, VantagePoint Venture Partners and Massachusetts Technology Development Corporation.

[Water treatment firm WaterHealth raises USD10m](#)

California-based water treatment firm WaterHealth has raised USD10m in a Series D funding round led by existing investors, Dow Venture Capital and Sail Venture Partners. The company hopes to raise a further USD10m in March.

[Recycling firm ROUND2 acquires Monitex](#)

Austin-based electronics recycler Round2 Technologies has paid an undisclosed sum to acquire fellow recycling firm, Monitex. The companies will merge to form ROUND2 Monitex, which CEO Ian Bagnall expects to have revenues of more than USD50m this year, following around USD30m in combined revenues last year.

OTHER BREAKING STORIES

[ETI announces USD29m funding for UK cleantech projects](#)

The Energy Technologies Institute (ETI), a partnership between the UK government and a number of global industrial companies, have approved approximately GBP20m (USD29m) in funding for four cleantech projects in the UK. The projects include offshore wind turbine technology development and the demonstration of a large-scale tidal turbine.

[PwC acquires Sustainable Finance](#)

PricewaterhouseCoopers (PwC) is paying an undisclosed sum to acquire the international advisory firm Sustainable Finance Limited (SFL). SFL provides environmental and social risk management services within the financial sector.

DEAL LEAGUE TABLE

VC Deals	Region	Amount (USDm)	Status	Target	Investor / Partner / Buyer
Boston Power raises USD55m for lithium-ion batteries	USA	55	Completed	Boston Power	Foundation Asset Management, Gabriel Venture Partners, GGV Capital, Oak Investment Partners, Venrock Associates
Fallbrook raises USD25m for efficient transmission	USA	25	Completed	Fallbrook Technologies	NGEN Partners, Robeco Private Equity
Ze-gen raises USD20m for waste gasification	USA	20	Completed	Ze-gen	Flagship Ventures, Massachusetts Technology Development Corporation, VantagePoint Venture

					Partners, Waroz Holding Company
ReVolt raises USD13m for battery technology	Norway	13	Completed	ReVolt Technology	Viking Venture, Verdane Capital, TVM Capital GmbH, Sofinnova Partners, SINTEF, Northzone Ventures
Water treatment firm WaterHealth raises USD10m	USA	10	Completed	WaterHealth International	SAIL Venture Partners, Dow Venture Capital
Electric motor firm KLD raises USD1m	USA	1	Completed	KLD Energy Technologies	n/a
Ultracapacitor firm Graphene Energy raises USD500,000	USA	0.5	Completed	Graphene Energy	21Ventures, Quercus Trust
Darby invests in Korean wind energy	South Korea		Completed	Gangwon Wind Power	Darby Overseas Investments
Partnership Deals	Region	Amount (USDm)	Status	Target	Investor/Partner/Buyer
Proteus and Syngenta to develop biofuel enzymes	France				Syngenta, Proteus
Turkana to build USD760m wind farm in Kenya	Kenya				Vestas Wind Systems, Turkana Wind Power, African Development Bank
REC and LG in USD340m solar deal	Norway				LG Electronics, Renewable Energy Corporation (REC)
Agresti Biofuels to build waste-to-ethanol plant in Vietnam	Vietnam				Phuc Yen Company, Agresti Biofuels
Nippon Oil and Sanyo to form 50-50 thin-film solar venture - Rumour	Japan				Sanyo Electric Solar, Nippon Oil (ENEOS)
Enviromena to build USD50m solar farm for Masdar city	UAE				First Solar (FSLR), Enviromena Power Systems
Majestic Wind Power signs 20-year PPA	USA				Southwestern Electric Power Company (SWEPCO), Majestic Wind Power
EDF to build 100MW Minnesota wind farm	USA				Southern Minnesota Municipal Power Agency, GE Energy, EDF

					Energies Nouvelles
Johnson Controls-Saft and Azure strike hybrid partnership	USA				Azure Dynamics, Johnson Controls-Saft (JCS)
Mitsubishi to supply Peugeot Citroen with Evs - Rumour	France				PSA Peugeot Citroen, Mitsubishi Motors
Ford partners with Magna to build EV by 2011	USA				Ford Motor Company, Magna International
GE forms wind turbine gearbox JV with A-Power	China				A-Power Generation Systems, GE Drivetrain Technologies
Energy management firm MicroPlanet partners with Ergon Energy	Australia				Ergon Energy, MicroPlanet
M&A Deals	Region	Amount (USDm)	Status	Target	Investor/Partner/Buyer
PwC acquires Sustainable Finance	USA		Completed	Sustainable Finance Limited	PricewaterhouseCoopers
Starwood buys majority stake in solar project developer	USA		Completed	Nautilus Solar Energy	Starwood Energy
Recycling firm ROUND2 acquires Monitex	USA		Completed	ROUND2 Monitex	Recycling firm ROUND2 acquires Monitex

StrategyEye Cleantech

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