

30 March 2017

## **Lyon Group building \$1 billion Riverland Solar and Battery Storage this year**

A \$1 billion combined large-scale solar and battery storage project – the world’s biggest – will commence operations in South Australia’s Riverland district by the end of 2017.

Speaking at the announcement of Riverland Solar Storage with the South Australian Premier Jay Weatherill in Adelaide today, Lyon Partner David Green said construction will commence in the coming months and is expected to employ 270 workers.

“Riverland Solar Storage’s 330MW solar generation and 100MW battery storage system will be Australia’s biggest solar farm with 3.4 million solar panels and will also include 1.1 million batteries,” Mr Green said.

Mr Green said that Lyon’s previously announced Kingfisher Solar Storage project near Roxby Downs was also likely to start construction in 2017. Riverland Solar Storage will proceed first, as the land has been secured and the grid connection is further advanced.

“Our projects are 100% equity financed, technology and other commercial arrangements are in place, network capacity analysis and discussions with network owners are well advanced, and development consultation and approvals have commenced.”

Mr Green said Riverland and Kingfisher will each have battery storage systems larger than any already operating around the world.

“If the 4.7 million solar panels at Riverland and Kingfisher were placed end to end, they would reach from Adelaide to Brisbane and back, and then all the way to Melbourne.”

Lyon Group was joined at the announcement by its alliance partners US-based energy giant AES Energy Storage, the world’s leading utility-scale energy storage provider,<sup>1</sup> and its EPC contractor Downer.

“Lyon and its partners have been working with governments, market bodies and utilities over an extended period. We can deliver reliable, flexible power to meet South Australia’s Summer peak.”

Mr Green said that South Australian energy consumers would benefit from the South Australian Government’s recently announced utility-scale battery tender.

“The South Australian Government’s leadership on large-scale battery storage has come together with technology cost reductions and international financial interest to provide a timely solution to some of the challenges in the state’s electricity system.”

“Large-scale renewables and large-scale battery technology will play a central role in keeping our electricity system stable, reducing prices, and reducing emissions. Right now, South Australia is at the forefront of an irrepressible global energy transition.”

“Our team is at site right now, today. Timing is critical and we are moving forward”.

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<sup>1</sup> As recognized by Navigant Research in both 2015 and 2016 (<https://www.navigantresearch.com/research/navigant-research-leaderboard-report-utility-scale-energy-storage-systems-integrators>)

Mr Green said that the outcome of the tender would not determine whether Lyon's projects are built but would influence the final storage configuration in terms of the balance between optimising grid security and the capture of trading revenue.

Lyon Group has Australia's largest pipelines of large-scale solar and large-scale battery storage projects, and will announce the commencement of further combined solar storage and grid-connected battery storage projects in the coming months.

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### Lyon Group's Announced South Australian Solar Storage Projects

	Riverland	Kingfisher
<b>Dates</b>		
Planned construction commencement	June 2017	September 2017
Planned operational date	December 2017	June 2018
<b>Location</b>	Morgan	Roxby Downs
<b>Solar</b>		
Capacity	330MW (max active power injection 160MVA plus 110MVA (two lines))	120MW (max active power injection 80MVA)
Approximate investment value	\$700m	\$250m
People during construction	270	200
Number of panels	3.4 million	1.3 million
Number of foundations required	273,000 (combined)	273,000 (combined)
Kilometres or wiring in total required	1,847Km of AC & DC cabling (combined)	1,847Km of AC & DC cabling (combined)
Estimate of the value of services that will be sourced from SA*	\$100 million	\$48 million
<b>Storage</b>		
Capacity	100MW / 400MWh (depending on config.)	100MW / 200MWh (depending on config.)
Approx. investment value	\$200-\$300m	\$100m - \$150m
Number of batteries	1.1 million	1.1 million

\* Possible services and equipment that can be sourced from SA include site preparation, accommodation, tracker structure assembly, access roads development, electrical services, panel installation

## About Lyon Group

Lyon Group is a developer and principal investor in utility, commercial/industrial and residential scale solar and solar battery projects in Australia, Japan, Philippines, Thailand and India, and is soon to expand into Korea and Indonesia.

## About AES Energy Storage

AES is a leader in commercial energy storage solutions. AES manages installations from concept to operation with a market-proven solution that integrates best in class battery and power conversion technologies. AES introduced the first grid-scale advanced battery-based energy storage solution in commercial operations in 2008 and operates the largest fleet of battery-based storage assets in service today. Outside Australia, AES has a total of 436MW in operation, construction or late stage development in seven countries.

The AES Corporation is a Fortune 200 global power company. It provides energy in 17 countries and has a workforce of 18,500. It owns and manages \$39 billion in total assets.

AES Energy Storage just delivered the world's largest battery storage system in six months.

<https://www.youtube.com/watch?v=t-9PrcPceY4>

<http://www.energy-storage.news/news/sdgc-and-aes-complete-worlds-largest-lithium-ion-battery-facility>

<https://cleantechnica.com/2017/02/27/worlds-biggest-lithium-ion-energy-storage-facility/>

## About Downer

Downer is a leading provider of services to customers in markets including: Transport Services; Technology and Communications Services; Utilities Services; Engineering, Construction and Maintenance (EC&M); Mining; and Rail.

Downer operates primarily in Australia and New Zealand but also in the Asia-Pacific region, South America and Southern Africa.

Downer is one of Australia's largest and most experienced providers in the renewable energy market, providing design, build and maintenance services for:

- wind farms and wind turbine sites;
- solar farms;
- large-scale battery storage systems;
- landfill methane generation plants;
- sugar cane waste (Bagasse) fired cogeneration plants; and
- other biomass fired cogeneration plants.