

## FACT SHEET

# LMS ENERGY, JOULE ENERGY AND ALBURY CITY COUNCIL ARE PLANNING TO DEVELOP THE ALBURY RENEWABLE ENERGY HUB.

The Albury landfill gas-to-energy facility was commissioned in December 2013. This comprises a 1.1MW facility, capable of generating approximately 9,000 megawatt hours (MWh) of reliable, base-load renewable energy each year.

The proposed Albury Renewable Energy Hub will build on this existing facility, combining existing base-load landfill gas with the latest solar and electric vehicle charging technologies. The addition of the 1.1MW (AC) solar PV system, consisting of approximately 4,000 solar panels, will bring the total installed capacity of the site to 2.2MW.



The existing LMS landfill gas-to-energy facility, and proposed EV charging station



Example of a LMS landfill solar system

### ANNUAL BENEFITS OF THE ALBURY RENEWABLE ENERGY HUB\*

MW/H EXPORTED	11,200
GAS EXTRACTED	5,400,000 M3
HOMES POWERED	1,900
CARS CHARGED	225,000
CO <sub>2</sub> e ABATED	54,000 TONNES
WATER SAVED	24,750,000 LITRES

ENOUGH ENERGY TO PROVIDE POWER TO AN AVERAGE OF 5,000 PEOPLE EACH YEAR

This new hub will be capable of generating approximately 11,200MWh of renewable electricity each year, which is enough to power more than 1,900 homes and over 5,000 electricity users in the local community. This is the equivalent to charging 225,000 electrical vehicles each year.

Landfill gas is a potent greenhouse gas which is 25 times more harmful to the atmosphere than carbon dioxide. From power generation activities alone the facility will reduce nearly 54,000 tonnes of carbon (CO<sub>2</sub>e) from being emitted each year.

When compared to a traditional coal-fired power station generating the same amount of electricity, the Albury Renewable Energy Hub will also save nearly 25 million litres of water each year.

LMS Energy and Joule are excited to partner further with Albury City Council on this project.

**To find out more please visit:**

**LMS Energy**  
[lms.com.au](http://lms.com.au)

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## FREQUENTLY ASKED QUESTIONS

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### ALBURY LANDFILL SOLAR SYSTEM

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#### 1. How much electricity will the solar farm produce?

The solar photovoltaic farm is rated at 1.1MW. This equates to an annual generation of 2,250MWh of renewable electricity, which is enough to power approximately 400 homes or over 1,000 electricity users in the local community. This is also the equivalent to saving 4,950,000 litres of water each year when compared to a traditional coal-fired power station.

#### 2. How does the solar farm produce electricity?

The projects solar panels will use solar irradiance to generate direct current, which will then be converted into alternative current using solar inverters, and then be stepped up to 11kV to feed into the national electricity grid.

#### 3. How many panels will the solar farm use?

There will be 4,000 panels used on this solar photovoltaic farm. The panels are SunPower panels, the same panels used on the Apple headquarters in Silicon Valley, USA.

#### 4. How long will construction take?

Once Development Approval has been granted, the construction period will be less than three months. Activity onsite will be minimised by the use of prefabrication of solar arrays offsite, and then onsite activity confined to positioning of the arrays and electric cable trenching and general siteworks.

#### 5. What about glare?

Solar photovoltaic panels are designed to reflect as little light as technically possible (generally around 2% of light received) in order to maximise their efficiency. This is why solar photovoltaic farms are not considered reflective and have been installed at airports around the world.

#### 6. Is there any noise?

Solar farms do not emit noise. Solar photovoltaic technology does not use any moving parts.

#### 7. Are there any visual impacts from the solar farm?

The siting of the solar arrays is designed to minimise any visual impact on the site. It is well within the boundary of the landfill area. There are also good foliage barriers along the adjacent roads and the facility has been set back to reduce any visual impact.

**To find out more please visit:**

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