



Big Solar

Big Solar is a key part of the government strategy for renewable energy with 40 megawatts of large-scale solar renewable energy generating capacity coming online by mid 2015.

The ACT Solar Auction

The ACT's Solar Auction has proved a simple and effective way of attracting large solar projects to the Territory. It runs like a tender process whereby companies compete for the right to a feed-in tariff, with proposals evaluated in terms of their overall value-for-money. The two-stream process has been completed with FRV awarded a grant of entitlement in the fast-track stream and Zhenfa and OneSun joint winners in the regular stream.

Costs and benefits of Big Solar

The ACT's Big Solar facilities will produce GreenPower™ meaning real emission reductions above and beyond national pollution targets. In fact, enough GreenPower™ will be produced to supply around 10,000 Canberra houses, reducing greenhouse gas emissions by 1,400,000 tonnes over 20 years.

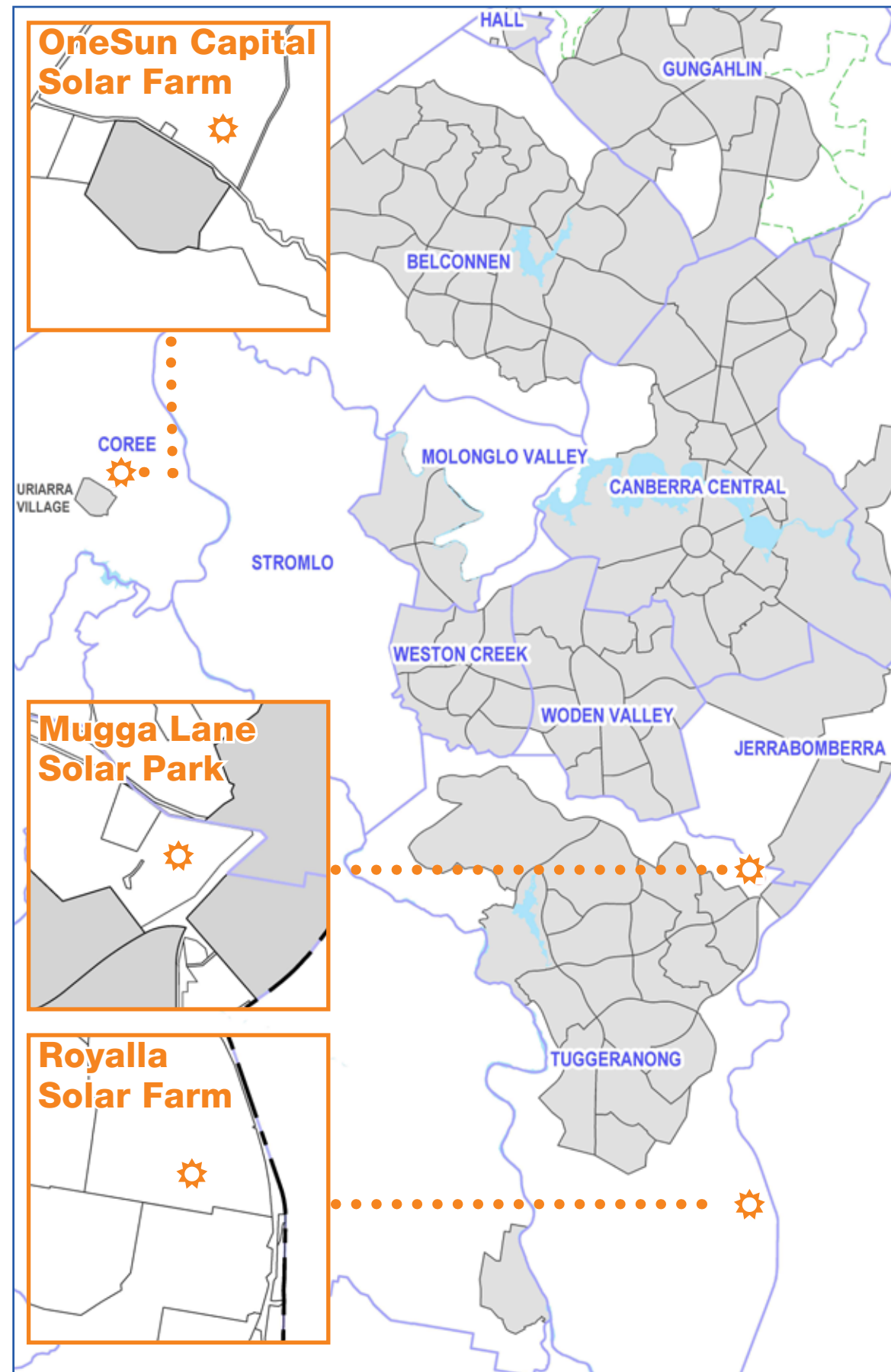
Having three of the largest solar power facilities in Australia will underpin Canberra's emergence as a renewable energy investment hub and support the continuing growth of our clean technology industries.

The Solar Auction process has delivered solar power at the lowest possible cost. The average FiT price is around \$183 per megawatt hour with the Territory paying the different between this price and prevailing wholesale electricity prices. Importantly the FiT rate is fixed over 20 years, so it declines in real terms and as wholesale energy prices rise over time.

Costs to household are expected to peak in 2016 at around \$0.45 per week and decline to around \$0.27 per week in 2021. This decline will continue over time.

A big future for rooftop solar

ACT homes and businesses continue to install roof-top solar, supported by falling solar costs and attractive discounts on energy bills offered by electricity retailers. As of 30 June 2013 there were 13,224 solar systems installed in the ACT. Roof-top solar is forecast to continue to grow to 2020.



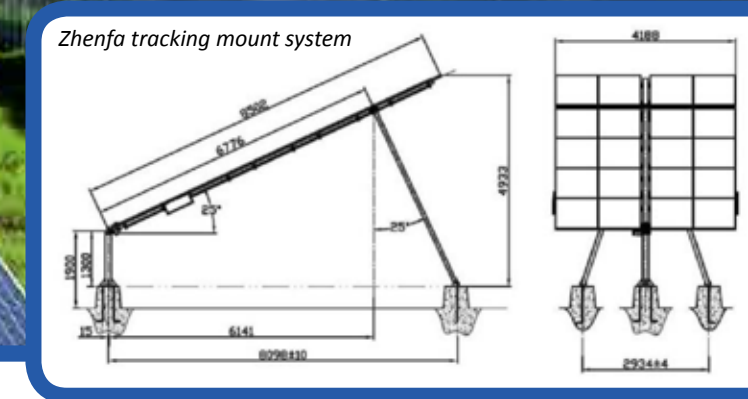
How Canberra is becoming the solar capital of Australia

Canberra is on track to become the solar capital of Australia and the nation's most climate-friendly city. It's all part of the ACT's climate change strategy which seeks to reduce the Territory's greenhouse gas emissions in line with recommendations by the international scientific community on action required to avoid dangerous climate change.



For more information

Visit: www.environment.act.gov.au/climate_change



FRV's Royalla Solar Farm

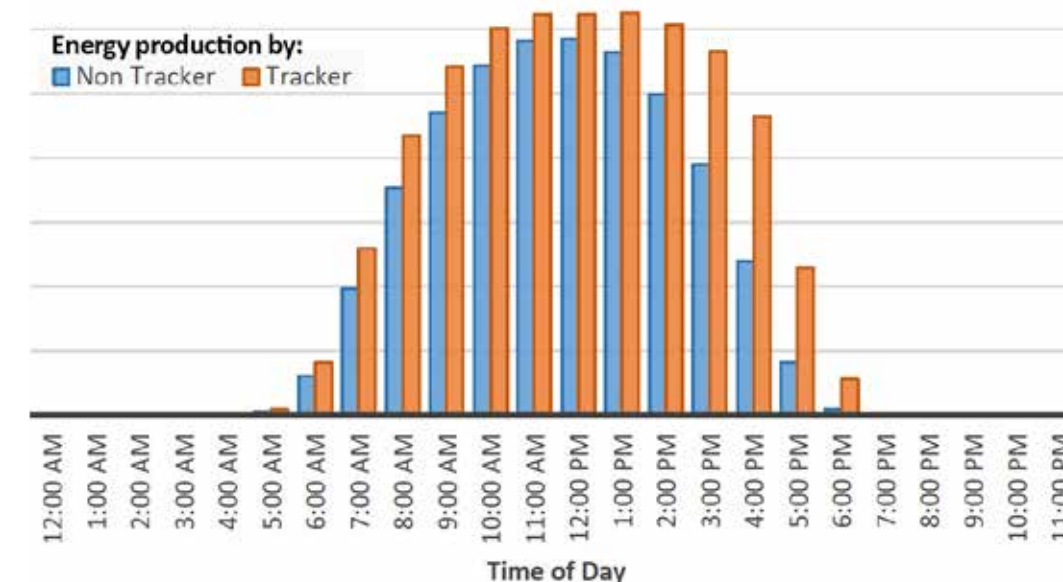
When completed in mid 2014 the Royalla Solar Farm, at 20 megawatts, will be the largest photovoltaic power station in Australia producing approximately 38,000 megawatt hours of zero-emission renewable energy each year. The 20 megawatt solar generator will be comprised of approximately 83,000 fixed photovoltaic modules. Fotowatio Renewable Ventures (FRV) is a European-based company specializing in the complete management of solar generation assets.

Zhenfa's Mugga Lane Solar Park

The Mugga Lane Solar Park, due to be completed in late 2014, is a 13 megawatt solar farm, including half a megawatt of panels attached to ground mounted tracking units. The use of single axis trackers will demonstrate this innovative technology that increases electricity output by tracking the sun over the course of the day. Zhenfa is a Chinese-based company that specialises in photovoltaic system designs, supply of materials, contracting and project finance.

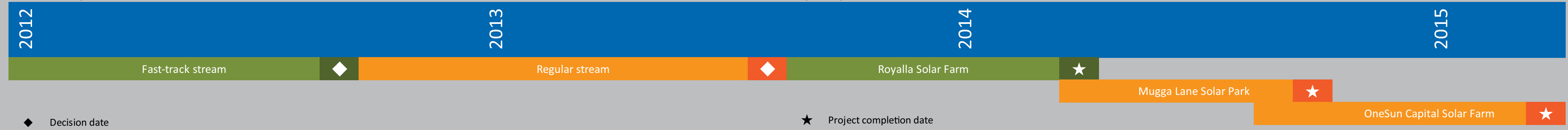
OneSun Capital Solar Farm

The OneSun Capital Solar Farm, due to be completed in mid 2015, is a 10 megawatt facility with 7 megawatts eligible for large-scale feed-in tariff support. The facility features a mono-pile frame system which will minimise disturbance to the landscape allowing for easy assembly and disassembly and allow the site's primary purpose, sheep grazing, to be continued. The project will also fund the augmentation of the electricity network that runs from the Cotter Pump Station to Uriarra. Elementus Energy Pty Limited, the project developer, is an Australian-owned and operated company.



Solar Auction process

Project implementation timeframes



◆ Decision date

★ Project completion date

How Canberra is becoming the solar capital of Australia

Canberra is on track to become the solar capital of Australia and the nation's most climate-friendly city. It's all part of the [ACT climate change strategy](#), which seeks to reduce the Territory's greenhouse gas emissions in line with recommendations of the international scientific community. This includes the target of a 40 per cent reduction in greenhouse gas emissions from 1990 levels by 2020. To do this the ACT Government has committed to an ambitious 90 per cent renewable energy target to be achieved through investments in renewables such as solar, wind and biomass in the ACT and surrounding region.

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Big Solar

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The ACT Government will deliver 40 megawatts of large-scale solar renewable energy generating capacity by late 2015. That's enough to power about 10,000 Canberra houses, reducing greenhouse gas emissions by around 1,400,000 tonnes over 20 years. When completed, the ACT will have three of the largest solar power facilities in Australia. These will underpin Canberra's emergence as a renewable energy investment hub and support the continuing growth of our clean technology industries.

The ACT Solar Auction

The solar auction is a simple and effective way of attracting large solar projects and infrastructure to the Territory. It runs like a tender process whereby companies compete for the right to build the facilities by offering to generate electricity for the lowest cost. The solar auction contains a number of innovative features:

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- Successful companies are granted an entitlement to a long-term feed-in tariff (FiT), which means a guaranteed price for the electricity they produce. A 'contract for difference' approach is applied so that the Territory only pays the difference between the FiT price and revenue received from selling the electricity into the wholesale market.
- The 'contract-for-difference' approach provides a high degree of revenue certainty, resulting in investment confidence and stronger competition. Also, the FiT price is fixed for 20 years, so payments by the Territory reduce as electricity prices rise due to inflation or other factors.
- A two-stage process means that only companies prequalified on the basis of their capacity and experience are eligible to submit pricing offers. This reduces problems experienced by similar auctions internationally, whereby companies submit low prices but are ultimately unable to complete their projects.

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- For all electricity generated and supported by a feed-in tariff, the ACT Government will surrender the related large-scale generation certificates as GreenPower, resulting in real emission reductions above and beyond national pollution caps.

Solar auction results

FRV's Royalla One

Fotowatio Renewable Ventures (FRV) has been granted a FiT to build the Royalla One solar farm in the Royalla district of the ACT, about 23 km south of Canberra city, as an outcome of the fast-track stream of the Solar Auction. When completed in 2014, Royalla One will be the largest photovoltaic power station in Australia. It will produce approximately 38,000 megawatt hours of electricity per year, enough to power around 5,000 houses with zero-emission, 100 per cent renewable energy. The 20 megawatt solar generator will be comprised of approximately 83,000 fixed multicrystalline silicone photovoltaic modules.

FRV is a European-based company and leading global operator, specializing in the complete management of solar assets for the generation of electricity from the sun.

Artist's impression of the proposed Royalla One facility



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Zhenfa Canberra Solar Farm One Pty Ltd is a subsidiary company of the Zhenfa Group. (Founded in 2004, the Zhenfa Group specialises in photovoltaic system designs, supply of materials, contracting and project finance).

Indicative Zhenfa Mugga lane Solar Park site plan

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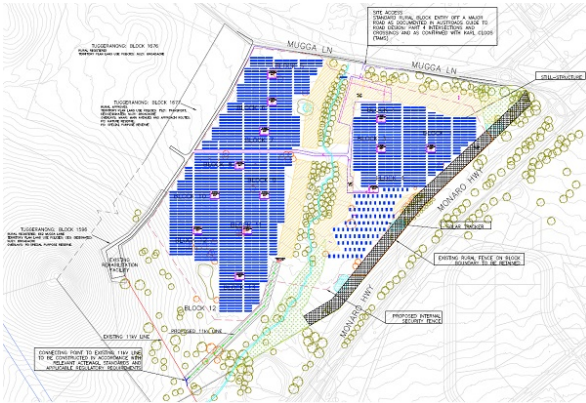
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OneSun Capital Solar Farm

OneSun Capital 10MW Operating Pty Ltd has been granted a FIT to build a 7 megawatt facility in the Core District of the ACT, approximately 30km west of Canberra, opposite Uriarra Village. The 7 megawatt solar generator is comprised of approximately 26,100 fixed polycrystalline silicone photovoltaic modules and each year will produce approximately 11,900 megawatt hours of zero-emission renewable energy. (The 7 megawatt solar generator forms part of a total 10 megawatt solar farm, however only 7 megawatts of capacity will be eligible for large-scale FIT support).

The solar farm will be developed by Elementus Energy Pty Limited, an Australian owned and operated developer of large-scale solar farms which has been operating in the ACT since 2009.

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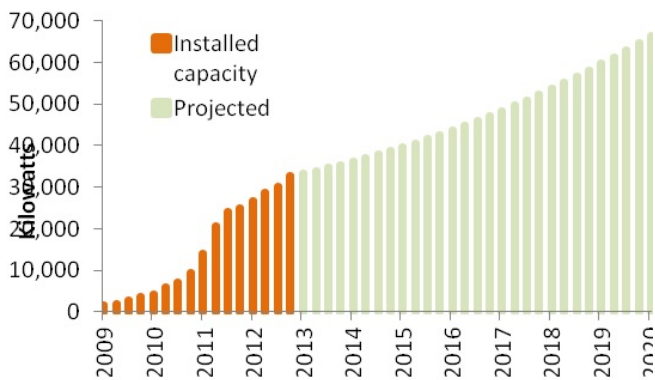


Rooftop solar

[Supporting the Territory's investments in Big Solar and greenhouse gas emission targets](#), ACT homes and businesses continue to install roof-top solar installations, attracted by falling solar costs and attractive discounts on energy bills offered by electricity retailers. As of 30 June 2013 there were 13,224 solar systems installed in the ACT and this will continue to [expand](#) to 2020.

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Projected rooftop solar capacity in Canberra



Links

- **ACT climate change strategy**
- **Greenhouse Gas Reduction Targets in the ACT**
- **Carbon Neutral Government Fund**

For more information visit www.environment.act.gov.au/climate_change

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YELLOW = TEXT FOR CONFIRMATION

How Canberra is becoming the solar capital of Australia

Canberra is on track to become the solar capital of Australia and the nation's most climate-friendly city. It's all part of the [ACT climate change strategy](#), which seeks to reduce the Territory's greenhouse gas emissions in line with recommendations of the international scientific community. This includes the target of a 40 per cent reduction in greenhouse gas emissions from 1990 levels by 2020. To do this the ACT Government has committed to an ambitious 90 per cent renewable energy target to be achieved through investments in renewables such as solar, wind and biomass in the ACT and surrounding region.

Generic solar panel image for cover art?

Big Solar

Big Solar is a key part of the government strategy for renewable energy. Compared to roof-top solar, large-scale solar facilities can achieve substantial economies of scale while increasing power output through optimised siting, orientation, construction and maintenance. This means lower costs and more energy output.

The ACT Government will deliver 40 megawatts of large-scale solar renewable energy generating capacity by late 2015. That's enough to power about 10,000 Canberra houses, reducing greenhouse gas emissions by around 1,400,000 tonnes over 20 years. When completed, the ACT will have three of the largest solar power facilities in Australia. These will underpin Canberra's emergence as a renewable energy investment hub and support the continuing growth of our clean technology industries.

The ACT Solar Auction

The solar auction is a simple and effective way of attracting large solar projects and infrastructure to the Territory. It runs like a tender process whereby companies compete for the right to build the solar facilities by offering to generate electricity for the lowest cost. The solar auction contains a number of innovative features:

- Successful companies are granted an entitlement to a long-term feed-in tariff (FiT), which means a guaranteed price for the electricity they produce. A 'contract for difference' approach is applied so that the Territory only pays the difference between the FiT price and revenue received from selling the electricity into the wholesale market.
- The 'contract-for-difference' approach provides a high degree of revenue certainty, resulting in investment confidence and stronger competition. Also, the FiT price is fixed for 20 years, so payments by the Territory reduce as electricity prices rise due to inflation or other factors.
- A two-stage process means that only companies prequalified on the basis of their capacity and experience are eligible to submit pricing offers. This reduces problems experienced by similar

auctions internationally, whereby companies submit low prices but are ultimately unable to complete their projects.

For all electricity generated and supported by a feed-in tariff, the ACT Government will surrender the related large-scale generation certificates as GreenPower, resulting in real emission reductions above and beyond national pollution caps.

Solar auction results

FRV's Royalla Solar Farm

Fotowatio Renewable Ventures (FRV) has been granted a FiT to build the Royalla Solar Farm in the Royalla district of the ACT, about 23 km south of Canberra city, as an outcome of the fast-track stream of the Solar Auction. When completed in 2014, Royalla Solar Farm will be the largest photovoltaic power station in Australia. It will produce approximately 38,000 megawatt hours of zero-emission renewable energy. The 20 megawatt solar generator will be comprised of approximately 83,000 fixed multicrystalline silicone photovoltaic modules.

FRV is a European-based company and leading global operator, specializing in the complete management of solar assets for the generation of electricity from the sun.

Artist's impression of the proposed Royalla Solar Farm

Zhenfa's Mugga Lane Solar Park

Zhenfa Canberra Solar Farm One Pty Ltd has been granted a FiT to build the Mugga Lane Solar Park, a 13 megawatt facility to be located on 32 hectares of land, adjacent to the intersection of the Monaro Highway and Mugga Lane. The park comprises approximately 51,000 polycrystalline silicone photovoltaic modules, including approximately 2,000 modules (0.5 megawatts capacity) attached to ground mounted tracking units. The use of single axis trackers will demonstrate this innovative technology that increases electricity output by tracking the sun over the course of the day. Construction is due to commence in the first half of 2014 and be completed in the second half of 2014. When completed, the facility will produce approximately 24,375 megawatt hours of electricity per year.

Zhenfa Canberra Solar Farm One Pty Ltd is a subsidiary company of the Zhenfa Group. (Founded in 2004, the Zhenfa Group specialises in photovoltaic system designs, supply of materials, contracting and project finance).

The Mugga Lane Solar Park will provide both a physical and virtual (online) solar photovoltaic educational interface for the residents and visitors to the ACT with further links to ACT research institutions and demonstration opportunities to be developed over time.

Indicative Zhenfa Mugga lane Solar Park site plan

OneSun Capital Solar Farm

OneSun Capital 10MW Operating Pty Ltd has been granted a FiT to build a 7 megawatt facility in the Coree District of the ACT, approximately 30km west of Canberra, near to Uriarra Village. The 7 megawatt solar generator is comprised of approximately 26,100 fixed polycrystalline silicone photovoltaic modules and each year will produce approximately 11,900 megawatt hours of zero-emission renewable energy. The 7 megawatt solar generator forms part of a 10 megawatt (AC) solar farm developed by Elementus Energy Pty Ltd.

One of the innovative features of the facility will be the use of a mono-pile frame system which will minimise disturbance to the landscape allowing for easy assembly and disassembly. It also means the site's primary purpose, sheep grazing, will be maintained. **An additional benefit of this project will be the upgrading of a portion of the electricity network that was damaged as a result of the 2003 bush fires [TBC].**

Elementus Energy Pty Limited is an Australian owned and operated developer of large-scale solar farms which has been operating in the ACT since 2009.

Picture of solar farm with sheep grazing

Rooftop solar

Complementing the Territory's investments in Big Solar and contributing to our greenhouse gas emission targets, ACT homes and businesses continue to install roof-top solar installations, supported by falling solar costs and attractive discounts on energy bills offered by electricity retailers. As of 30 June 2013 there were 13,224 solar systems installed in the ACT and this will continue to expand to 2020.

Projected rooftop solar capacity in Canberra

Links

- **[ACT climate change strategy](#)**
- **[Greenhouse Gas Reduction Targets in the ACT](#)**

For more information visit www.environment.act.gov.au/climate_change

Solar Capital

Canberra is on track to become the solar capital of Australia and the nation's most climate-friendly city. It's all part of the Territory's climate change strategy, which seeks to reduce the city's greenhouse gas emissions in line with recommendations of the international scientific community. This includes a reduction of 40 per cent from 1990 levels by 2020. To do this the ACT Government has committed to an ambitious 90 per cent renewable energy target to be achieved through investments in renewables such as solar, wind and biomass in the ACT and surrounding region.

Big Solar

Big Solar is a key part of the government strategy for renewables. Compared to roof-top solar, large-scale solar facilities can achieve substantial economies of scale, while increasing power output through optimised siting, orientation and construction and maintenance. This means lower costs and more energy output.

The ACT Government is delivering 40 megawatts of large-scale renewable energy generating capacity **before 2015**. That's enough to power around **9,000** Canberra houses, reducing greenhouse gas emissions by around **1,400,000** tonnes. When completed, the ACT will have three of the largest solar power facilities in Australia. These will underpin Canberra's emergence as a renewable energy investment hub and support the continuing growth of our clean technology industries.

Solar Auction

The Solar Auction is the policy mechanism for attracting Big Solar to the Territory. It runs like a tender process whereby companies compete for the right to build the facilities, but with a number of innovative features.

- Firstly, successful companies are granted an entitlement to long-term feed-in tariff (FiT) support, which means a guaranteed price for the electricity they produce. Importantly, a 'contract for difference' approach is applied so that the Territory only pays the difference between the FiT price and revenue received from selling the electricity into the wholesale market.
- The contract-for-difference approach provides a high degree of revenue certainty, resulting in investment confidence and stronger competition. Also, the FiT price is fixed for 20 years, so payments by the Territory reduce as electricity prices rise due to inflation or other factors.
- A two-stage process means that only companies prequalified on the basis of their capacity and experience are eligible to submit pricing offers. This reduces problems experienced by similar auctions internationally, whereby companies submit low prices but are ultimately unable to complete their projects.
- **The ACT Government will surrender all the large-scale generation certificates produced** by the facilities as GreenPower, resulting in real emission reductions above and beyond national pollution caps.

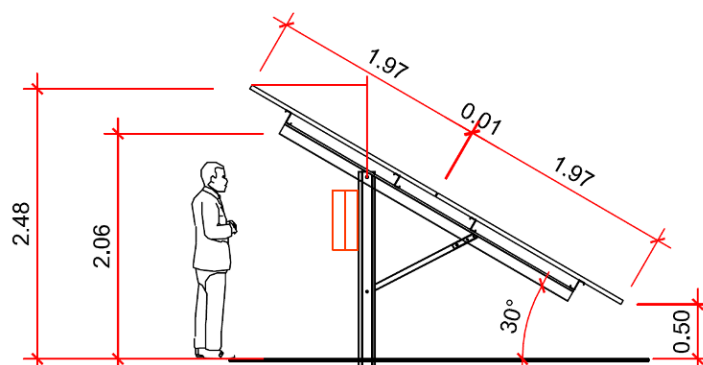
FRV's Royalla One

FRV (Fotowatio Renewable Ventures) is a European-based company and leading global operator, specializing in the complete management of solar assets for the generation of electricity from the sun. FRV has been granted a FiT to build the Royalla One solar farm in the Royalla district about 23 km south of Canberra city, as an outcome of the fast-track stream of the Solar Auction. When completed in 2014, Royalla One will be the largest photovoltaic power station in Australia. It will produce approximately 37,000 megawatt hours of electricity per year, enough to power 4,500 houses with zero-emission, 100 per cent renewable energy. The 20 megawatt solar generator is comprised of approximately 83,000 fixed multicrystalline silicone photovoltaic modules.

Artists impression of the proposed Royalla One facility

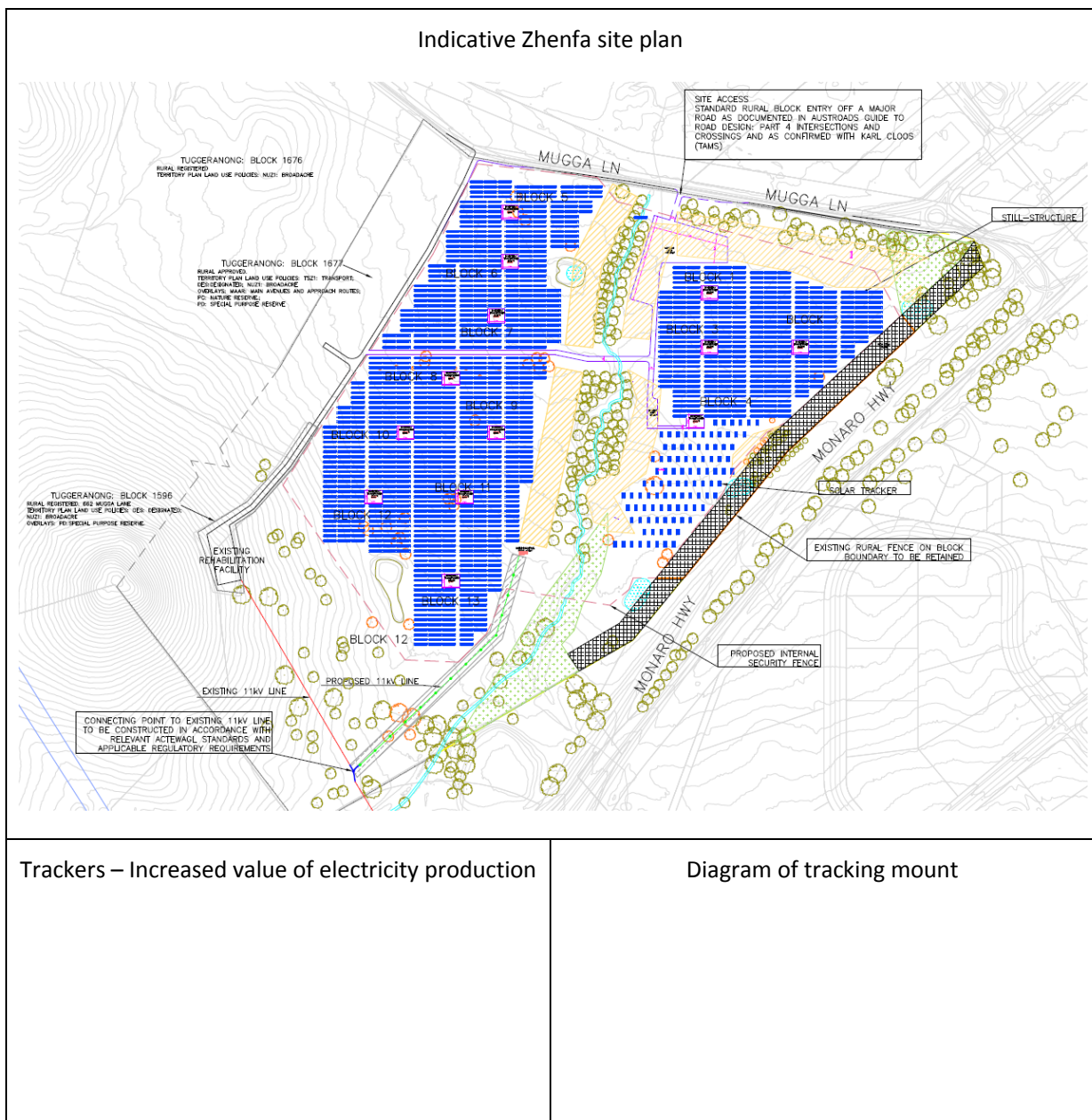


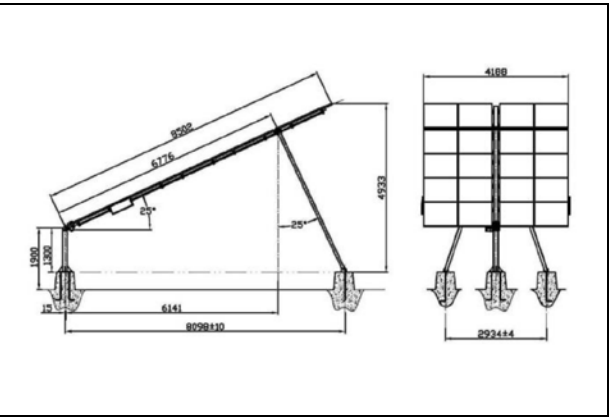
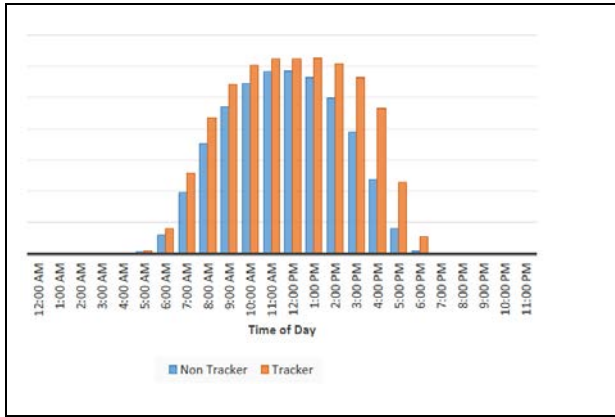
Side view of panel and mounts



Zhenfa's Mugga Lane Solar Park

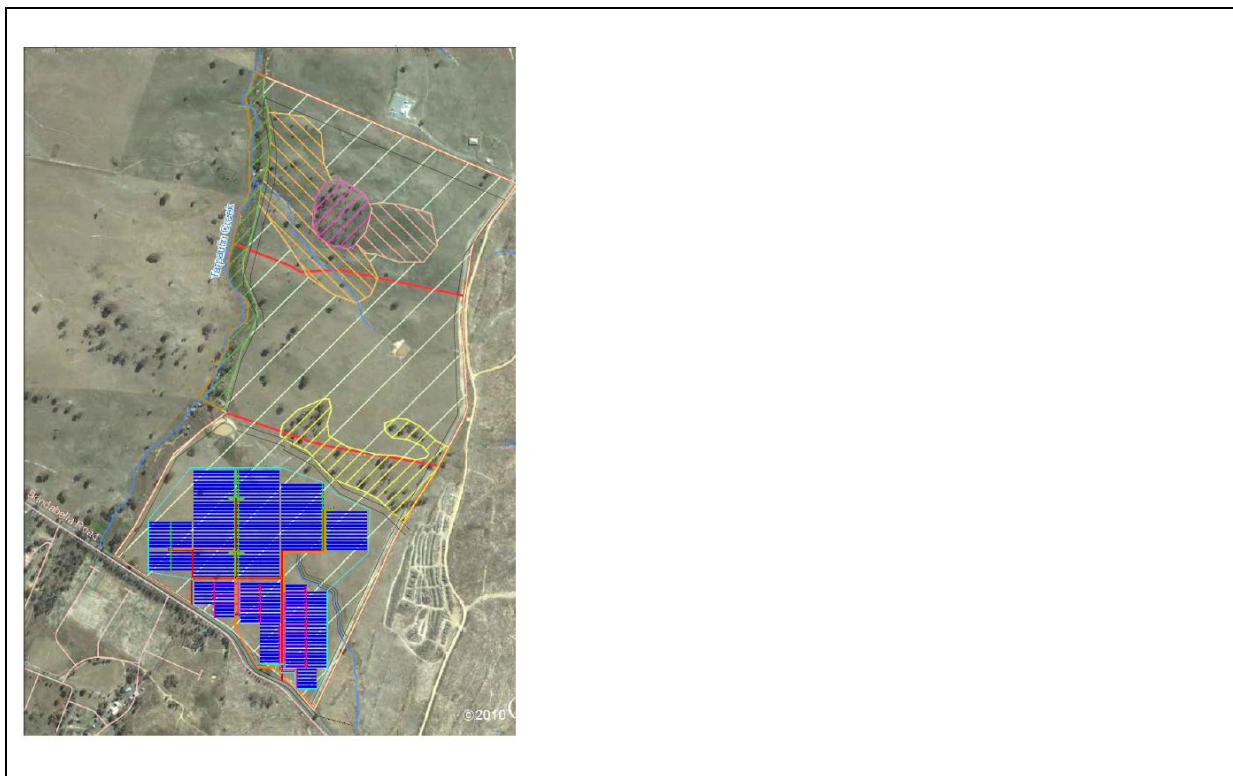
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OneSun Capital Solar Farm

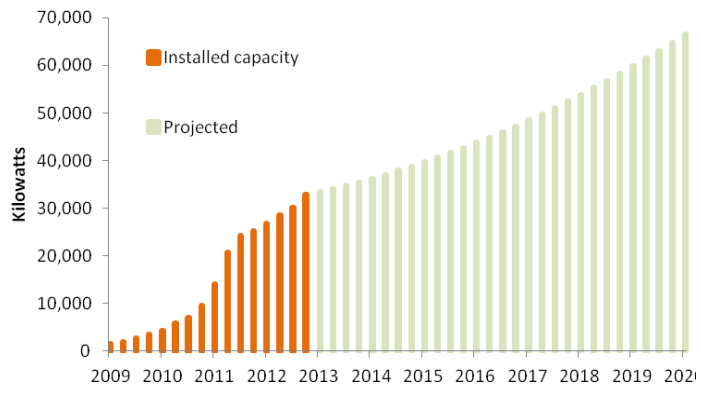
Elementus Energy is an Australian owned and operated developer of large-scale solar farms and has been operating in the ACT since 2009. Elementus has proposed a 10 megawatt facility in the Coree District, approximately 30km west of Canberra, opposite Uriarra Village, of which 7 megawatts will be provided with large-scale FiT support. A 7 megawatt solar generator is comprised of approximately 26,100 fixed polycrystalline silicone photovoltaic modules and each year will produce approximately 11,900 megawatt hours of zero-emission renewable energy.



Rooftop solar

Supporting the Territory’s investments in Big Solar, ACT homes and businesses continue to install rooftop solar installations, attracted by falling solar costs and attractive discounts on energy bills offered by electricity retailers. As of 30 June 2013 there were 13,224 solar systems installed in the ACT and this will continue to grow out to 2020.

Rooftop solar capacity in Canberra



Solar Capital

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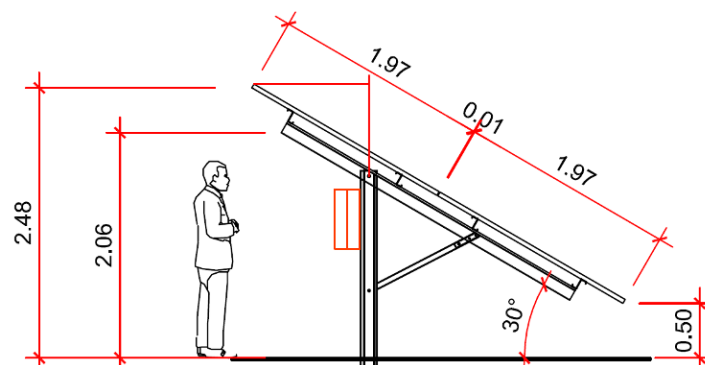
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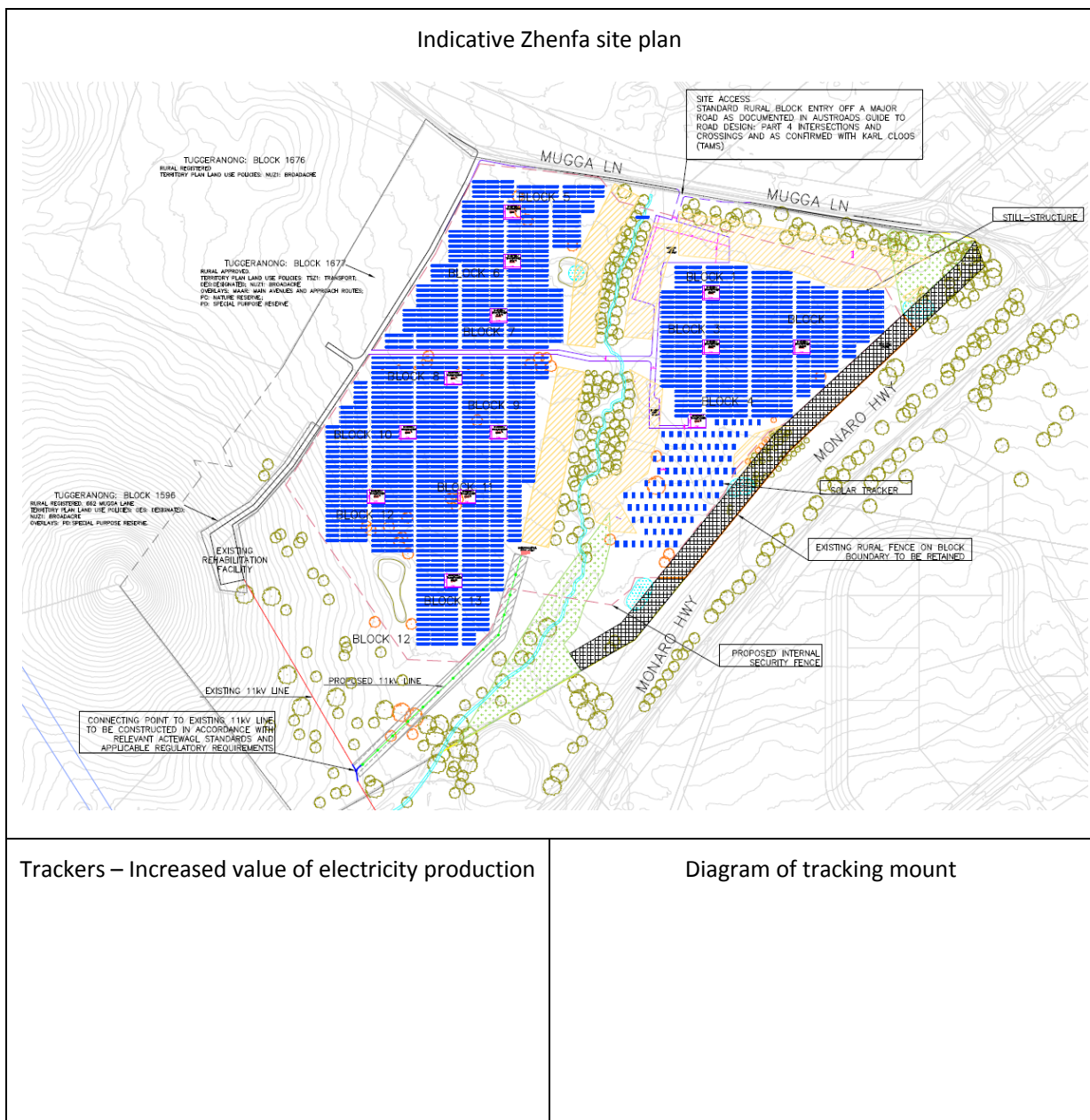


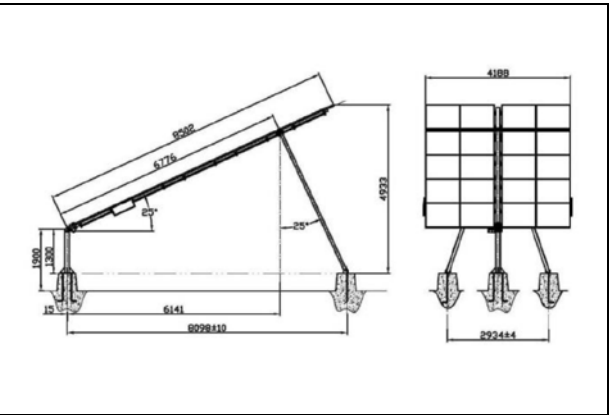
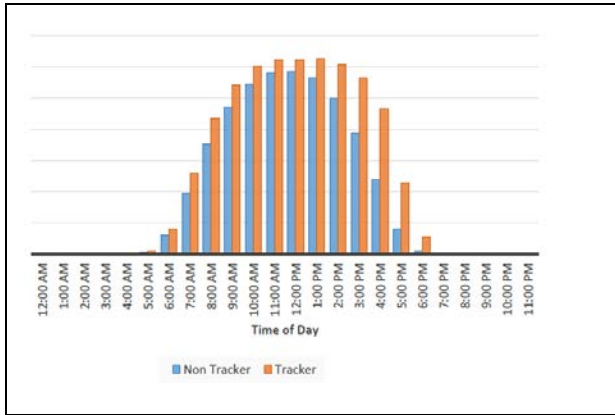
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Zhenfa's Mugga Lane Solar Park

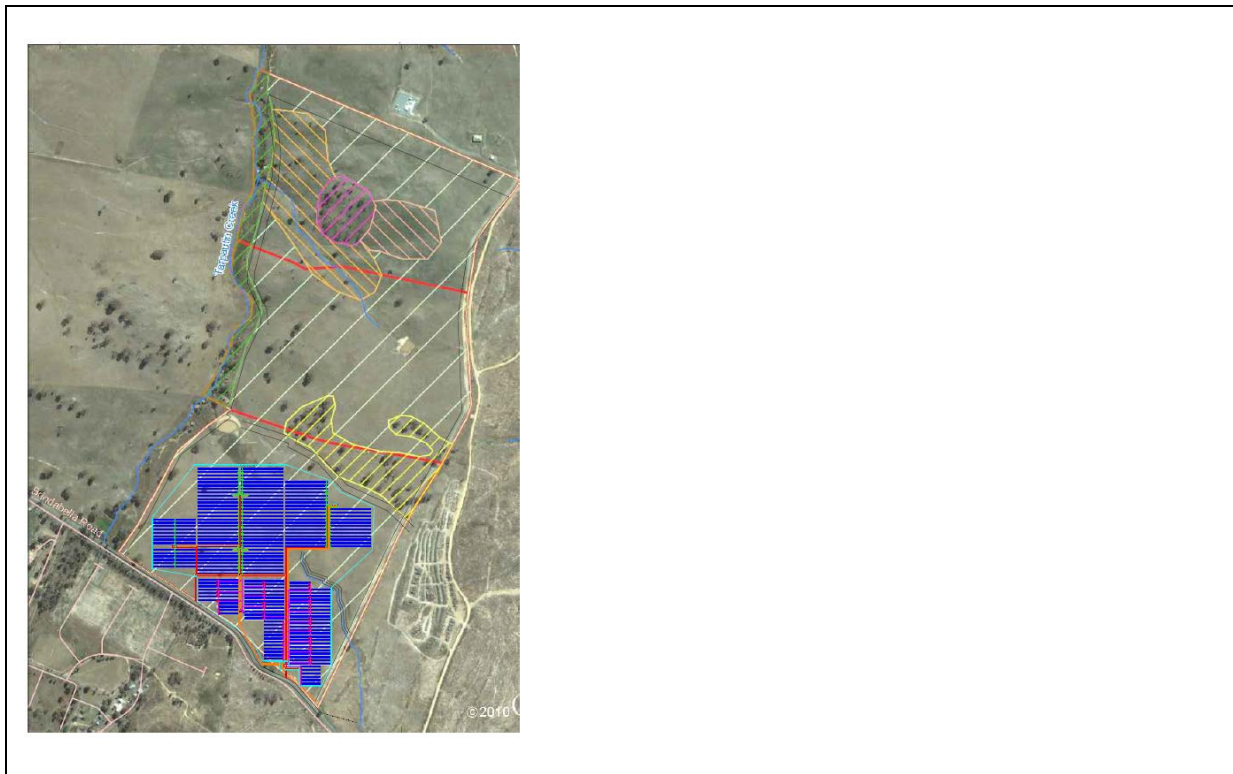
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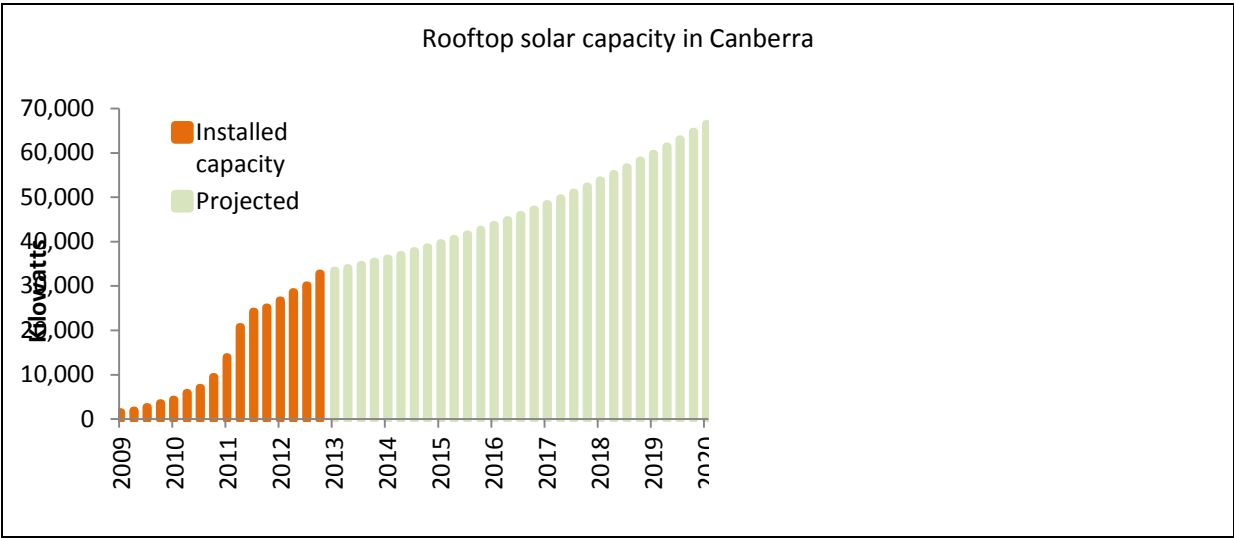
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OUTSIDE 3 (COVER)

How Canberra is becoming the solar capital of Australia

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OUTSIDE 2 (BACK)

Links

- [ACT climate change strategy](#)
- [Greenhouse gas reduction targets in the ACT](#)

For more information visit www.environment.act.gov.au/climate_change

OUTSIDE 1

Map of Canberra

Insert map of solar farm locations

A big future for rooftop Solar

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Projected rooftop solar capacity in Canberra

INSIDE 1

Big Solar

Big Solar is a key part of the government strategy for renewable energy with 40 megawatts of large-scale solar renewable energy generating capacity coming online by mid 2015.

FRV's Royalla Solar Farm

When completed in 2014 the Royalla Solar Farm, at 20 megawatts, will be the largest photovoltaic power station in Australia producing approximately 38,000 megawatt hours of zero-emission renewable energy each year. The 20 megawatt solar generator will be comprised of approximately 83,000 fixed photovoltaic modules. Fotowatio Renewable Ventures (FRV) is a European-based company specializing in the complete management of solar generation assets.

Artist's impression of the proposed Royalla Solar Farm

INSIDE 2

The ACT Solar Auction

The ACT's Solar Auction has proved a simple and effective way of attracting large solar projects to the Territory. It runs like a tender process whereby companies compete for the right to a feed-in tariff, with proposals evaluated in terms of their overall value-for-money. The two-stream process has been completed with FRV awarded a grant of entitlement in the fast-track stream and Zhenfa and OneSun joint winners in the regular stream.

Zhenfa's Mugga Lane Solar Park

The Mugga Lane Solar Park is a 13 megawatt solar farm, including half a megawatt of panels attached to ground mounted tracking units. The use of single axis trackers will demonstrate this innovative technology that increases electricity output by tracking the sun over the course of the day. Zhenfa is a Chinese-based company that specialises in photovoltaic system designs, supply of materials, contracting and project finance.

Artist's impression of the Mugga Lane Solar Park [note: need to reduce colour saturation!!]

Schematic of track mount system

Chart of tracker versus fixed-plate power output

INSIDE 3

Costs and benefits of Big Solar

The ACT's Big Solar facilities will produce GreenPower™ meaning real emission reductions above and beyond national pollution targets. In fact, enough GreenPower™ will be produced to supply around 10,000 Canberra houses, reducing greenhouse gas emissions by 1,400,000 tonnes over 20 years.

Having three of the largest solar power facilities in Australia will underpin Canberra's emergence as a renewable energy investment hub and support the continuing growth of our clean technology industries.

The Solar Auction process has delivered solar power at the lowest possible cost. The average FiT price is around \$183 per megawatt hour with the Territory paying the different between this price and prevailing wholesale electricity prices. Importantly the FiT rate is fixed over 20 years, so it declines in real terms and as wholesale energy prices rise over time.

Chart of large-scale solar costs

OneSun Capital Solar Farm

The OneSun Capital Solar Farm is a 10 megawatt facility with 7 megawatts eligible for large-scale feed-in tariff support. The facility features a mono-pile frame system which will minimise disturbance to the landscape allowing for easy assembly and disassembly and allow the site's primary purpose, sheep grazing, to be continued. The project will also fund the augmentation of the electricity network that runs from the Cotter Pump Station to Uriarra. Elementus Energy Pty Limited, the project developer, is an Australian-owned and operated company.

Picture of solar farm with sheep grazing