Croydon Solar Farm

Powering Queensland's clean energy future.

PROJECT SNAPSHOT

ACEnergy is developing the Croydon Solar Farm and Battery Energy Storage System (BESS), a landmark renewable energy project in **Lotus Creek, QLD**.

The project will generate 750 MW of solar energy and deliver 500 MW (2 GWh) of battery storage, providing **reliable, affordable and clean power** for homes and businesses across the state. It will also create local jobs and drive long-term investment in the region.

AT A GLANCE

- Solar capacity: **750 MWdc**
- BESS capacity: **500 MW / 2 GWh**
- Land size: **1,800 hectares**
- Location: **Lotus Creek (Isaac Region), QLD**

Project design

ASSESSMENTS

We are working with expert consultants to undertake studies that will help assess and mitigate any impacts and meet all regulatory and statutory requirements.

Studies we are undertaking include cultural heritage, social impact, traffic impact, agricultural soil characteristics, fire and bushfire impact, flora and fauna impact, visual amenity and landscape characteristics, acoustic impacts to the surrounding area, and stormwater and drainage management.

WHY LOTUS CREEK?

- The Isaac Region is a key area in Queensland's renewable energy transition, with projects designed for minimal environmental impact.
- It boasts high solar potential with abundant sunshine and strong solar irradiation.
- The project location provides direct access to existing 275 kV transmission infrastructure, minimising the need for new network upgrades.

PROJECT TIMELINE

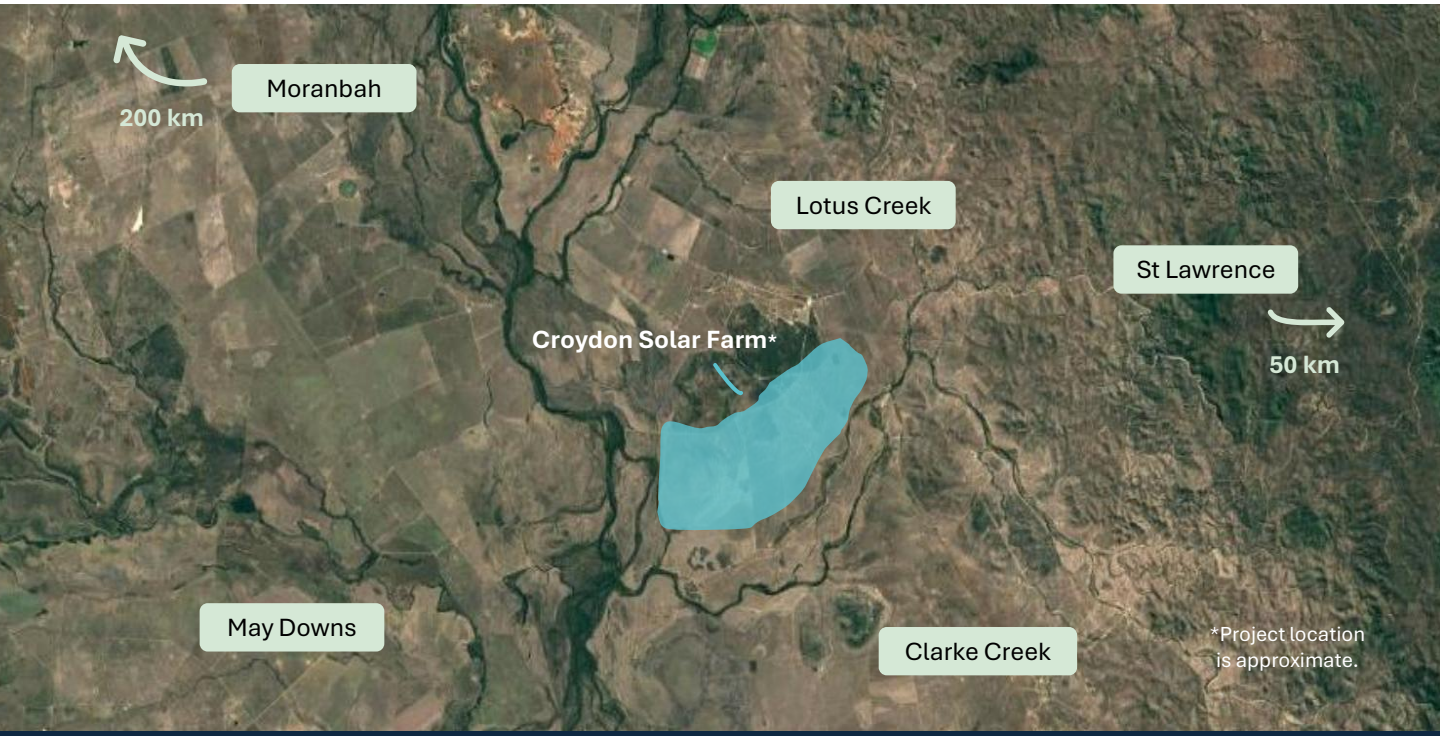
Indicative

2025-2026
Development and grid connection assessments and approvals, including Native Title and EPBC Act assessments

2027-2028
Construction and commissioning

From 2028
Operations and maintenance

Project location



Community

We are committed to building a positive legacy in the Isaac Region and sharing benefits broadly. At its core, the Croydon Solar Farm is designed to benefit community, by securing reliable and affordable energy for the future.

PROJECT BENEFITS

We are engaging early to identify benefit sharing opportunities locally and across the region. Benefits of the project may include:

- Up to 200 jobs during construction and eight full-time jobs during operation
- Securing energy to power 170,000 homes per year
- Offsetting ~940,000 tonnes of CO_2 each year
- First Nations benefits
- Business for local contractors and suppliers
- Neighbour agreements with farmers & landowners
- Community infrastructure and public amenity enhancements
- Collaboratively designed Community Benefit Agreement
- Local procurement and contracting
- Partnerships, in-kind contributions and investments in local initiatives

LEARN MORE

Visit our website for up-to-date information on the project or subscribe to our newsletter to learn more about who we are. Find us at www.acenergy.com.au or scan the QR code.

HAVE YOUR SAY

We are available to answer your questions, and we welcome feedback on the project. Connect with our team at info@croydonsolarfarm.com.au.

Frequently Asked Questions

What is the Croydon Solar Farm project?
The Croydon Solar Farm is a renewable energy project near Lotus Creek in Queensland's Isaac Region. It consists of a 750 MWdc solar farm and 500 MW (2 GWh) battery energy storage system (BESS). The project will play a key role in the state's energy transition, securing reliable and affordable power for Queenslanders, creating local jobs, and driving long-term investment in the region.

What is the project timeline?
ACEnergy secured the land in 2025, and we are currently undertaking assessments required to meet statutory and regulatory requirements. We expect construction will take place from 2026 until 2027, with the project operational from 2028.

How will the project benefit local communities?
We are committed to mitigating any project impacts and building a positive legacy in the Isaac Region. We are consulting early to identify opportunities for benefit sharing with near neighbours, Isaac Regional Council, the Barada Barna Aboriginal Corporation, and other key stakeholders. We are also undertaking a Social Impact Assessment with community and stakeholders, which will inform a Community Benefit Agreement with Isaac Regional Council and support impactful initiatives that respond to local needs and priorities.

How will the project co-exist with agriculture on site?
The project is located on a large pastoral lease, and we are exploring opportunities for agrisolar on the solar farm. Cattle grazing operations on the remainder of the property will continue as usual.

How visible will the project be?
The project will be set back from the roadway and extensive vegetation screening within the road corridor will create a significant visual buffer.

How will noise from the project be managed?
BESS typically produce low levels of noise, peaking when they charge or release energy. Typically, this is expected to take place mid-morning (charge) and in the late afternoon (release). The Environment Protection Authority (EPA) sets out the maximum recommended noise levels for commerce, industry and trade premises. We will comply with the applicable criteria and keep the community informed of our works and any changes.

Does the project pose a fire risk?
The BESS components of the project will be equipped with fire suppression systems, including aerosol fire suppressants, combustible gas detectors, smoke detectors and temperature detectors. These are all designed to detect and extinguish fires promptly. The project will also incorporate specific bushfire risk management techniques, including creating significant fuel breaks, maintaining a substantial water supply, ensuring easy access to responders, and implementing robust evacuation and staff training programs.

Who can I contact if I have questions?
You can connect with our project team at info@croydonsolarfarm.com.au.

About ACEnergy
We are an Australian-owned clean energy developer specialising in utility-scale solar and Battery Energy Storage Systems (BESS). With over 1.1 GW of capacity delivered and a further 2.7 GW in our pipeline, we are committed to advancing Australia's transition to a sustainable, low-emissions future.