Lightsource bp

STAKEHOLDER ENGAGEMENT
BRECHIN CASTLE SOLAR PROJECT
May 2024

Safety
Integrity
Respect
Sustainability
Drive

HOW WE WORK

GROUND RULES

- Stay mute when you are not speaking.
- Use the raised hand feature or physically raise your hands and wait to be acknowledged before speaking.
- Speak respectfully to others and avoid interrupting and talking over others.
- Allow one person to speak at a time to maintain clarity.
- Stick to the agenda to ensure all topics are covered within the allotted time.

BE MINDFUL

- Persons not adhering to the ground rules may be muted and or removed from the meeting.
- Please be advised that the session is being recorded for documentation purposes.
- Please be mindful of your background try to choose an appropriate space to use your video and or speak from.

AGENDA

- Welcome & Ground rules (10 mins)
- Understanding Solar Power & Solar Farms (10mins)
- Brechin Castle Solar Farm - Construction process & Timelines (20mins)
- Recruitment Process (10mins)
- Community Benefits (5mins)
- Grievance Mechanism (5mins)
- Q&A (20mins)

Safety
Integrity
Respect
Sustainability
Drive

THE PROJECT TEAM

Government of T&T

Ministry of Energy and Energy Industries.

Project Owners

Brechin Castle Solar Limited

- Bp Alternative Energy Trinidad and Tobago Limited

- Shell Renewables Caribbean Limited

- The National Gas Company of Trinidad & Tobago a subsidiary of NGC

Project Developer

Lightsource bp (LSbp)

- Grupotec: Engineering, Procurement & Construction Contractor (EPC)

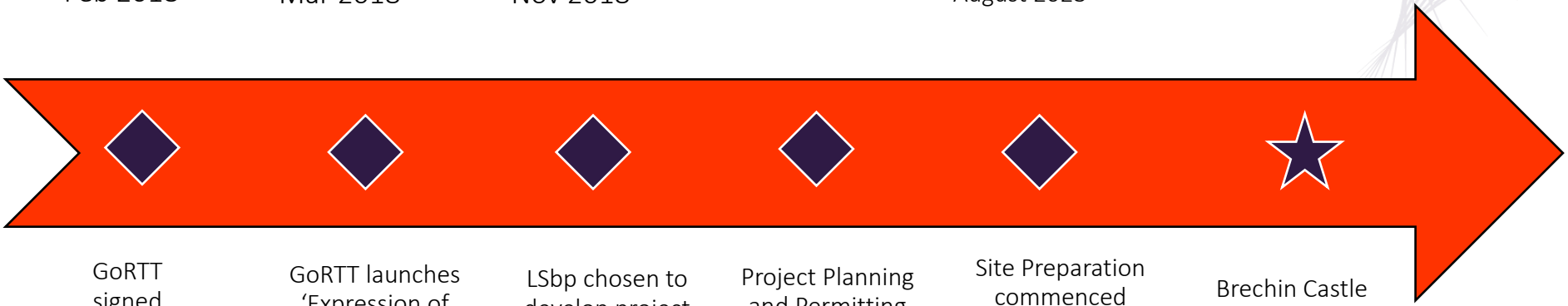
- SDV: Interconnection Provider (ICP)

- WSP: Owners Engineer

- Coastal Dynamics: Community Liaison Officer (CLO)

- T&TEC

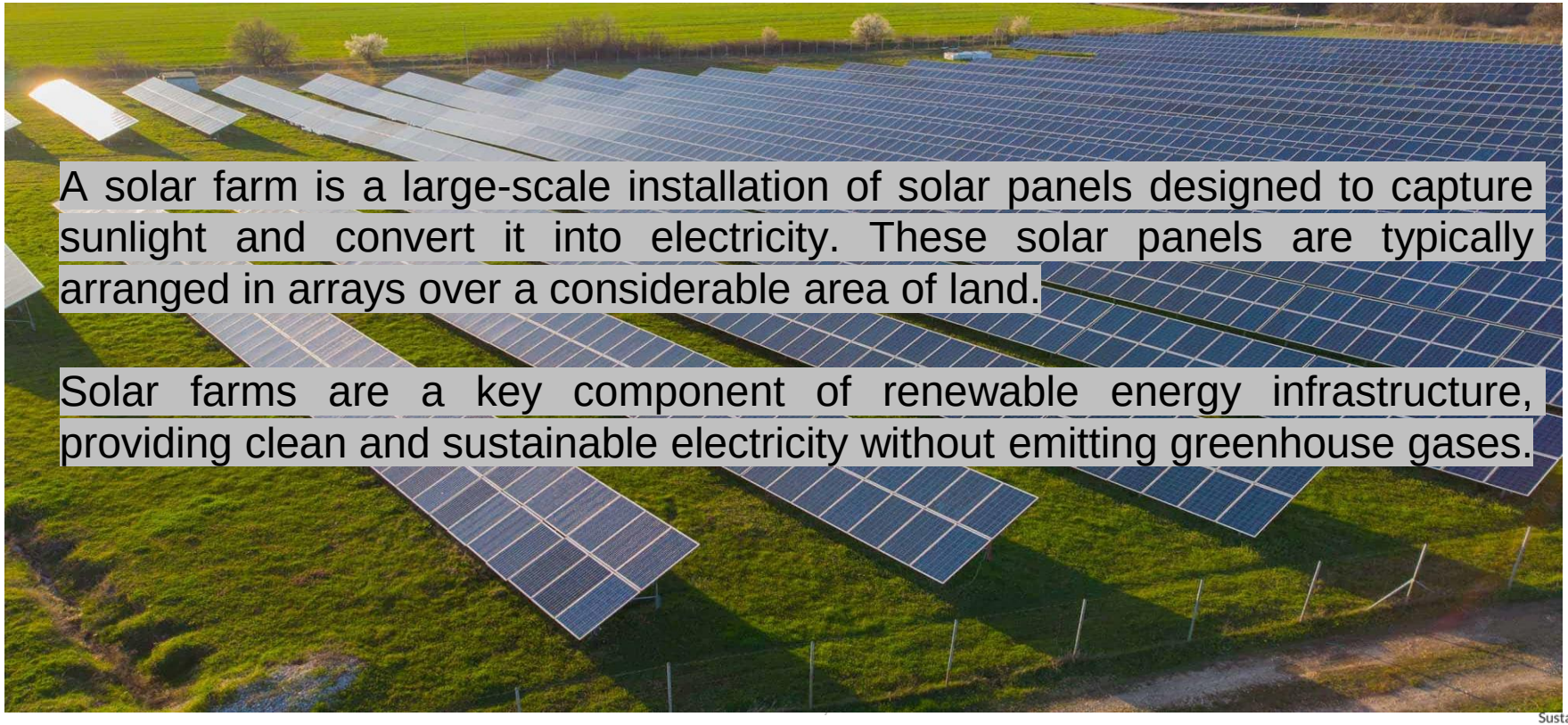
PROJECT TIMELINE



Safety
Integrity
Respect
Sustainability
Drive

ABOUT SOLAR FARMS

WHAT IS A SOLAR FARM



A solar farm is a large-scale installation of solar panels designed to capture sunlight and convert it into electricity. These solar panels are typically arranged in arrays over a considerable area of land.

Solar farms are a key component of renewable energy infrastructure, providing clean and sustainable electricity without emitting greenhouse gases.

SOLAR FARM – MAIN EQUIPMENT

Solar panels

Solar panels (or modules) are arranged in rows with wide margins to prevent shading. The panels have an anti-reflective coating and are fully recyclable made from silicon, silver and aluminium.

Mounting frames

Fixed-tilt frames: Panels are attached to mounting frames at a fixed angle.

Single axis trackers: The tracking system rotates the panels slowly from east to west.

Cabling

All cabling is weather proofed and securely attached to the structure or buried underground.

Inverters

Inverters convert the DC power into AC (Alternating Current) flowing on the local consumer's private network. Shown here are 'inverter cabinets' which house the equipment.

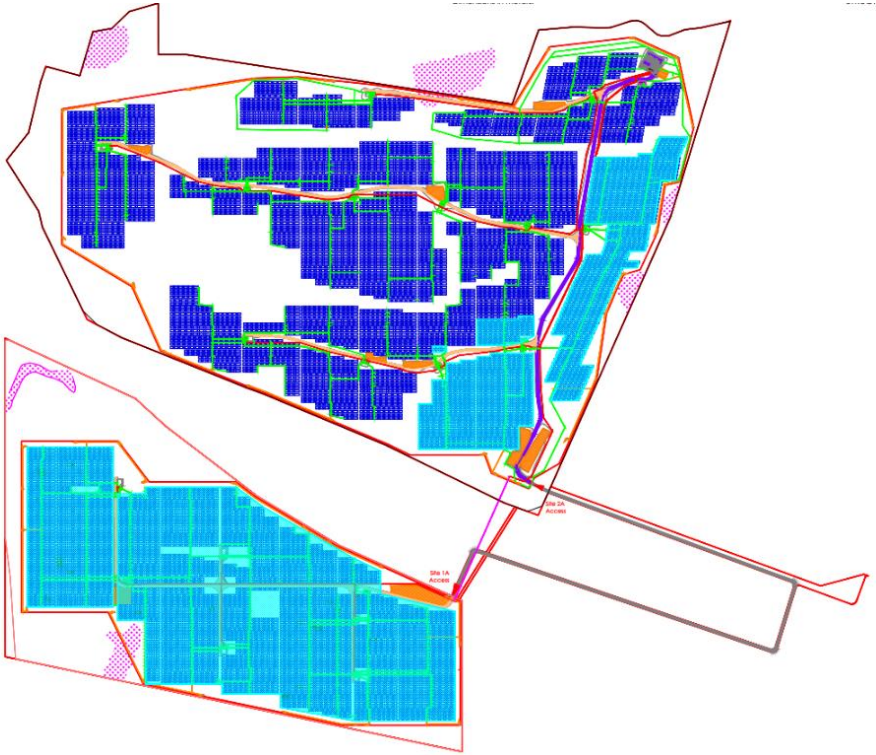
Transformer

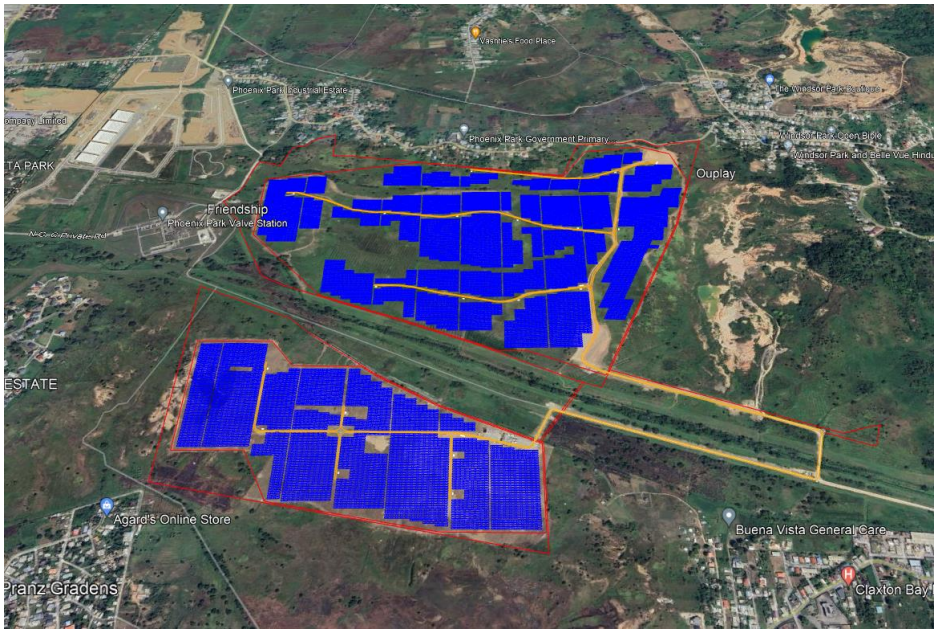
From the inverters, the electricity flows to a transformer which 'steps-up' the voltage of the electricity to match that of the existing network.

Substation

This is the on-site point of connection to the grid. From here, a high voltage cable buried underground, connects the solar farm to the existing overhead line grid network. The design of the substation will depend on the voltage and requirements of the network operator.

BRECHIN CASTLE SOLAR FARM



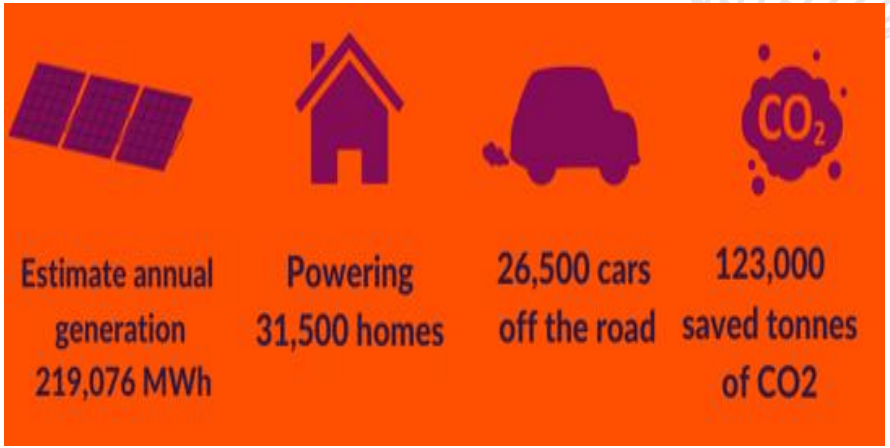


Safety
Integrity
Respect
Sustainability
Drive

WHY A SOLAR FARM

Community Benefits

- Generate renewable, low-carbon electricity;
- Reduce the volume of greenhouse gas emissions released by Trinidad and Tobago;
- Support the country in meeting its climate goals 30% reduction on emission from power generation sector by 2030.
- Creation of direct and indirect employment opportunities mainly during construction.
- Business opportunity for local entrepreneurs.



CONSTRUCTION OF A SOLAR FARM

Safety
Integrity
Respect
Sustainability
Drive

CONSTRUCTION OF A SOLAR FARM

CONSTRUCTION – WHAT TO EXPECT

The order in which different stages of construction happen, and how much they overlap, will vary from site to site, but the construction of a typical solar farm usually follows this pattern:

Site preparation & groundworks

.

Framing installation

Cabling & trenching

Panel assembly

Electrical component foundation preparation and installation

CONSTRUCTION – WHAT TO EXPECT

- Security installation
- High voltage works
- Commissioning
- Construction decommissioning & civil works
- Landscaping (according to planting season)






Safety
Integrity
Respect
Sustainability
Drive

JOB OPPORTUNITIES ON A SOLAR FARM

Safety
Integrity
Respect
Sustainability
Drive

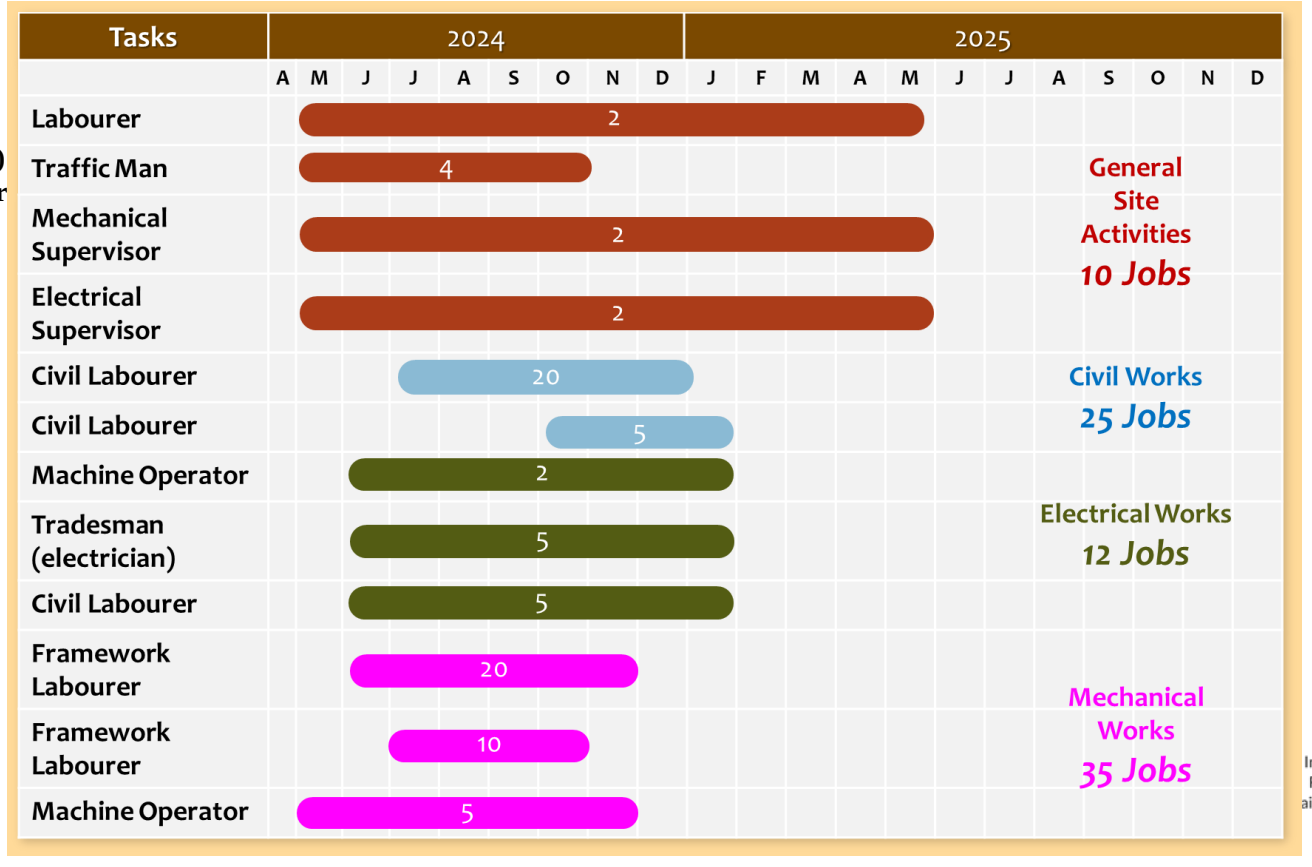
HIRES TO DATE

The Brechin Castle Solar Farm held job fair in December 2023 where over two hundred and fifty (250) applications were received.

Safety
Integrity
Respect
Sustainability
Drive

TYPES AND ESTIMATED # OF JOBS EXPECTED OVER THE MONTHS

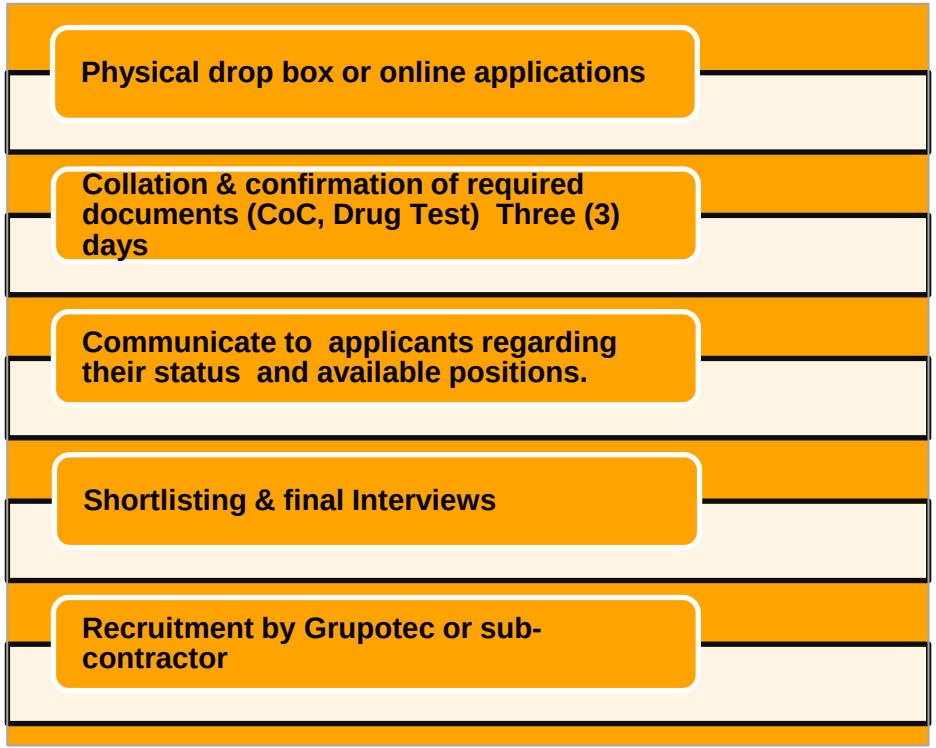
- Electrical Site Supervisor
- Equipment Operator
- Operator Driver
- Tradesman Assistant (Electrician)
- Mechanical / Framework labourer
- Labourer
- Civil Labourer
- Mechanical Supervisor and
- Traffic Controller



Safety
Integrity
Respect
ainability
Drive

EMPLOYMENT PROCESS

Lightsource bp can confirm that there will be short-term employment opportunities during the construction phase and interested persons can utilize the amended employment process described below:



Safety
Integrity
Respect
Sustainability
Drive

EMPLOYMENT PROCESS

Following the initial recruitment drive, the job application procedure during the construction phase of the project has been simplified.

Below are the steps to follow to be considered for roles on the project team as they arise:

Physical job applications submissions

- Collect an application form at Guard booth at the site entrance on Coco Road
- Complete the form and submit into the physical job application drop box

Email/Online job application submissions

- Email TTEmployment@grupotec.es and we will get back to you with application forms.

Please contact the Gruptotec office at 433-2166 between the hours of 8am-2pm if you require assistance completing job application forms.

SOCIAL INVESTMENTS

Safety
Integrity
Respect
Sustainability
Drive

CSR INVESTMENTS

Suggested investments

- Model Solar Farm expo for schools
- Solar rooms for schools
- Rehabilitation of community centres and grounds
- Micro funding for community initiatives
- Skill enhancement for fence line community
- Internship opportunities

Stakeholder Communication Process

Contact Information

Community Liaison Officer, Mr. Edwin Augustine
Phone: 1 868 389-7152
Email: EdwinA@coastaldynamics.com
Website: https://lightsourcebp.com/tt/project/brechin-castle-solar-farm/