

GOOSE CREEK
SOLAR PROJECT

June 7, 2023

Community Meeting & Project Introduction



Agenda



**Project Team
& Savion**



**Large Scale
Solar**



**Energy
Storage**



**Goose Creek
Solar Project**



Q & A

Project Team

- Tim Conboy, Development Director
- Emily Truebner, VP of Permitting & Environmental
- Jeremy Akin, Senior Associate Developer
- Adam Williams, VP of Development
- Samantha Robichaud, Development Director
- Karl Krauss, Senior Real Estate Project Manager
- Lindsey Weisman, Assistant Project Engineer
- Others in transmission, power marketing, finance, meteorology, legal, and more

About Savion

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Savion, a Shell Group portfolio company operating on a stand-alone basis, is an industry-leading solar and energy storage organization built on a foundation of specialized experience and mastery in the craft of development.

With a growing portfolio of more than 36.5 GW, Savion is currently one of the country's largest and most technologically advanced utility-scale solar and energy storage project development companies.

Savion's diverse team provides comprehensive services at each phase of renewable energy project development, from conception through construction. Savion is committed to helping decarbonize the energy grid by replacing electric power generation with renewable sources and delivering cost-competitive electricity to the marketplace.



About Savion



Founded in 2019, the Savion team is comprised of utility-scale solar and energy storage development experts.



U.S. based company headquartered in Kansas City, MO, with projects in various phases across 33 states.



Over 190 employees providing comprehensive services at each phase of renewable energy project development.



Our Team of Experts

- Utility-scale solar power project development
- Utility-scale energy storage project development
- Project Design, Contracts & Construction
- Transmission interconnection and delivery
- Meteorology
- Environmental Studies
- Land acquisition (real estate/title/mineral work)
- Permitting
- Regulatory
- Financial Analysis
- Origination and energy marketing
- Geographic Information Systems (GIS) and resource mapping systems
- Project acquisition and due diligence
- Energy storage integration



Our Partners and Customers

- Commercial and industrials
- Investor-owned utilities
- Cooperatives
- Municipalities
- State and federal utilities
- Landowners
- Project host communities
- County leadership

Projects Portfolio

Solar and Energy Storage in
Operation/Under
Construction/Contracted

2,658 MW
33 Projects
13 States

Solar in Development

19,651 MW
89 Projects
27 States

Energy Storage in Development

14,544 MW
80 Projects
27 States

Large Scale Solar

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Large Scale Solar

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Battery Energy Storage System (BESS)



Solar + Energy Storage Project Attributes

- 800+ acres of compatible private land with access to sunlight
- Access to the high voltage electric grid where capacity exists
- No undue community, environmental or cultural impacts
- Solar module arrays
- Electrical collection system
- Project substation
- Battery Energy Storage System (BESS)
- Transmission tie line connecting the project to the electric grid
- Gravel access roads
- Perimeter fence

Why Energy Storage?

Energy storage is useful on a grid scale for 3 primary reasons:

1. When charged with renewable energy like solar, energy storage delivers firm, flexible, clean energy and capacity.
2. Energy storage can store energy in times of excess production and discharge that energy when it is needed.
3. Energy storage provides real-time balance of power supply and demand, creating more reliable, stable and productive electric grids for our country.

“Energy storage fundamentally improves the way we generate, deliver, and consume electricity. Energy storage helps during emergencies like power outages from storms, equipment failures, accidents or even terrorist attacks. But the game-changing nature of energy storage is its ability to balance power supply and demand instantaneously – within milliseconds – which makes power networks more resilient, efficient, and cleaner than ever before.” (ESA, 2019)

Solar + Energy Storage Benefits



Economic Development

- New property tax revenue for local tax jurisdictions with little to no additional services required
- New local spending on goods, services and wages, primarily during construction
- Landowner revenue through leasing and sale of land
- Economic diversification
- Competitively priced electricity and long-term price certainty

Energy Security

- Electricity generation diversification and distribution
- Dispatchable energy from battery energy storage system

Environmental

- Clean, renewable electricity
- Minimal impact on underlying land
- No local emissions from electricity generation
- No cooling water required

The Solar Industry in Colorado

- Solar Installed: 2,354 MW (Ranks 13th nationally)
- Enough Solar Installed to Power: 452,007 homes
- Solar jobs: 7,426
- Solar companies: 388 (39 Manufacturers, 186 Installers/Developers, 163 Others)
- Total solar investment in Colorado: \$5.2 billion
- 5 year growth projection: 3,247 MW
- Source: Solar Energy Industries Association; Data current through Q4 2022



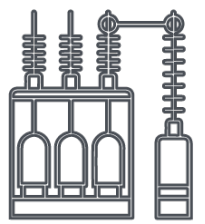
Goose Creek Solar Project Overview

Solar + Storage



- 300 MW of planned solar photovoltaic (PV) capacity, wholly located in Cheyenne County
- Optional co-located 200 MW battery energy storage capacity

Interconnection



- Interconnecting at the planned Xcel Goose Creek Substation along Xcel Energy's new Colorado's Power Pathway (CPP) 345 kV transmission line
- 2-mile transmission line to connect main project substation to the CPP Goose Creek Substation

Site Control and Permitting



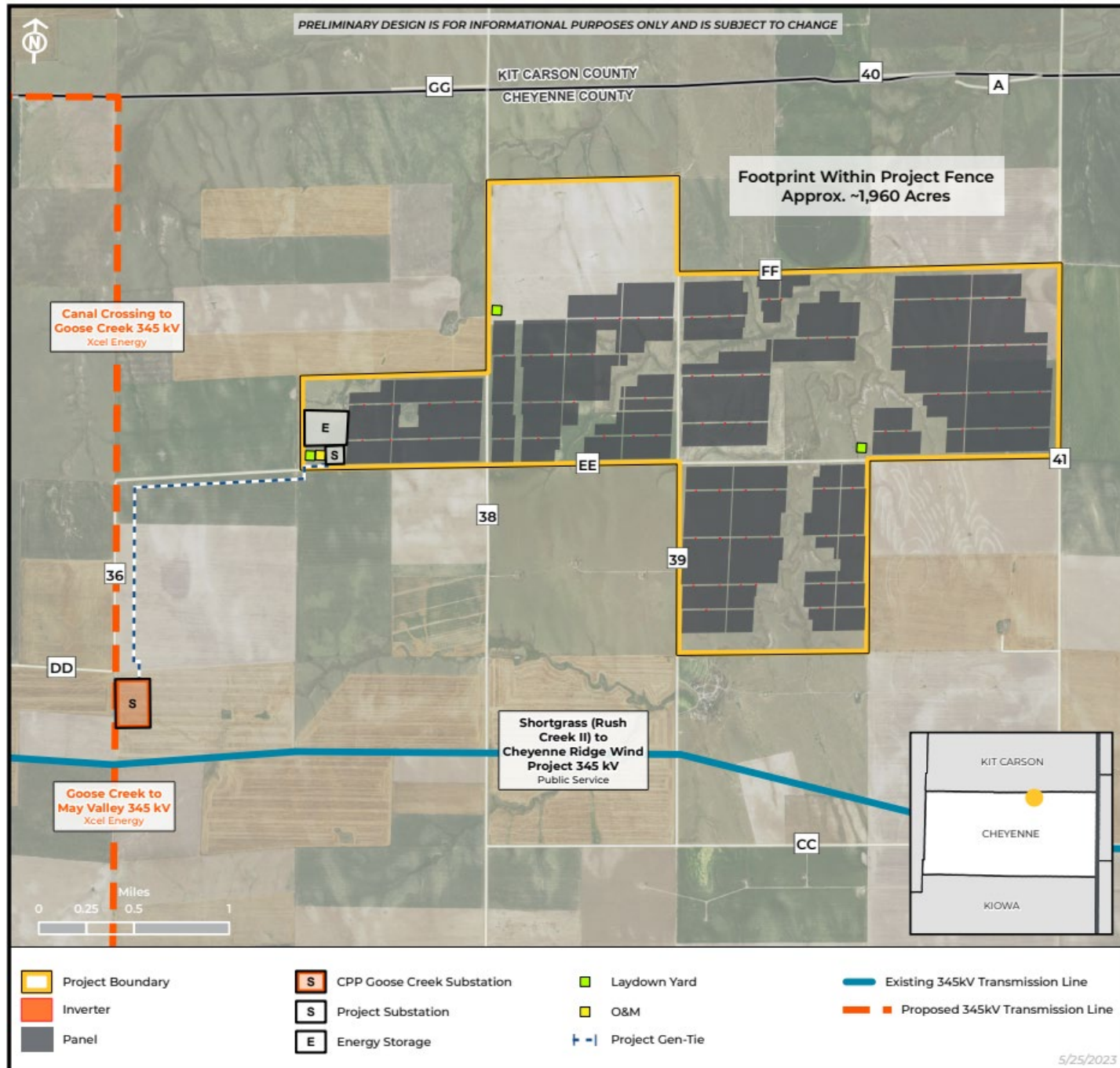
- Main project site is 100% secured via long term leases and purchase option agreements
- Negotiations underway for 2-mile transmission line
- Anticipate Conditional Use Permit (CUP) application submittal to Cheyenne County in Q3 2023



Due Diligence Completed & In-Progress

- Phase I Environmental Site Assessment
- Wetlands Delineation
- Cultural Resources Study
- Threatened & Endangered Species Habitat Assessment
- Lesser Prairie-Chicken Surveys
- Raptor Nest Surveys
- Preliminary Geotechnical Study
- Contour Mapping
- Hydrology Study
- Boundary Survey
- Mineral Report & Waivers





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The following companies and organizations provided data that contributed to the production of this map - CoreLogic, Inc., Environmental Systems Research Institute (ESRI), OpenStreetMap contributors, ReGrid, Loveland Technologies, U.S. Department of Agriculture (USDA), U.S. Federal Aviation Administration (FAA), U.S. Geological Survey (USGS), WhiteStar Corporation, Ventyx, Inc., An ABB Company, Imagery © 2023 Hexagon and data partners.

5/25/2023



Project Statistics

Preliminary Projections & Estimates



- Electricity Generation Capacity: **300 MW**
- Energy Storage Capacity: **200 MW**
- Annual Generation: **800,330 MWh**
- CO Households Powered: **94,800**
- Total Capital Investment: **TBD**
- Project Boundary Acreage: **3,217 acres**
- Footprint Within Project Fence: **1,960 acres**
- Earliest Construction Start: **2024**
- Earliest Commercial Operation Date: **2026**
- Operating Life: **35 years**
- County Impact Fee: **TBD**
- New tax revenue for Cheyenne County, Cheyenne County School District RE-5, and other local jurisdictions over the project's operating life: **TBD**



Frequently Asked Questions

End-of-Life Decommissioning

How are solar panels managed when they are no longer in use?

At the time of decommissioning, all panels, equipment and materials will be reused, recycled, or properly disposed. The project land will be restored to its original condition at the expense of the developer. This is required by ordinance and guaranteed in land agreements.

Public Safety

Are there any public safety issues that arise from areas where solar arrays are installed?

Large-scale ground-mounted arrays are enclosed by fencing. This prevents children and the general public from coming into contact with the installations. Warning signs and sometimes alarm systems are installed to deter unauthorized individuals from entering the solar array area.

Solar Panel Design / Visual Impacts

What are the visual impacts of the solar array once constructed?

Large solar projects have similar characteristics to a greenhouse or single-story structures. They are often enclosed by fencing and selective landscaping to minimize visual impacts.

How important is reflectivity and potential visual impacts from solar projects?

Solar panels are designed to absorb solar energy and convert it into electricity. They reflect only about 2% of incoming light, so issues with glare from PV panels are rare.

How does the traffic associated with large solar projects impact nearby residential and agricultural property?

Solar projects do not attract high volumes of additional traffic after the construction phase is completed.

Efficiency

Where does the power go?

Think of solar energy just like the other crops, like corn, wheat, and dairy that are currently harvested in your community. While some of those resources stay local, many are shipped outside your community but provide economic benefits locally.



Next Steps

- Review comments from community members
- Create site plan and permit application and submit to county
- Permit application review by county
- Contract for project's sale of energy and storage
- Development agreement with county
- Complete environmental studies
- Final project engineering and design
- Building permits
- Construction

- The Goose Creek Solar Project solar is an opportunity for Cheyenne County to realize significant economic benefits
- It will also provide significant benefits to electricity consumers and the environment
- The project will be designed, constructed and operated to avoid and minimize adverse impacts on participating landowners, the host community and environmental and cultural resources
- We welcome comments, questions and ideas and we will work with local government and stakeholders to agree on requirements that will enable the project to go forward

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QUESTIONS?

THANK YOU

