Westside Solar Array at the Kansas City International Airport (MCI)

Project Status Briefing

Date: 9/13/23

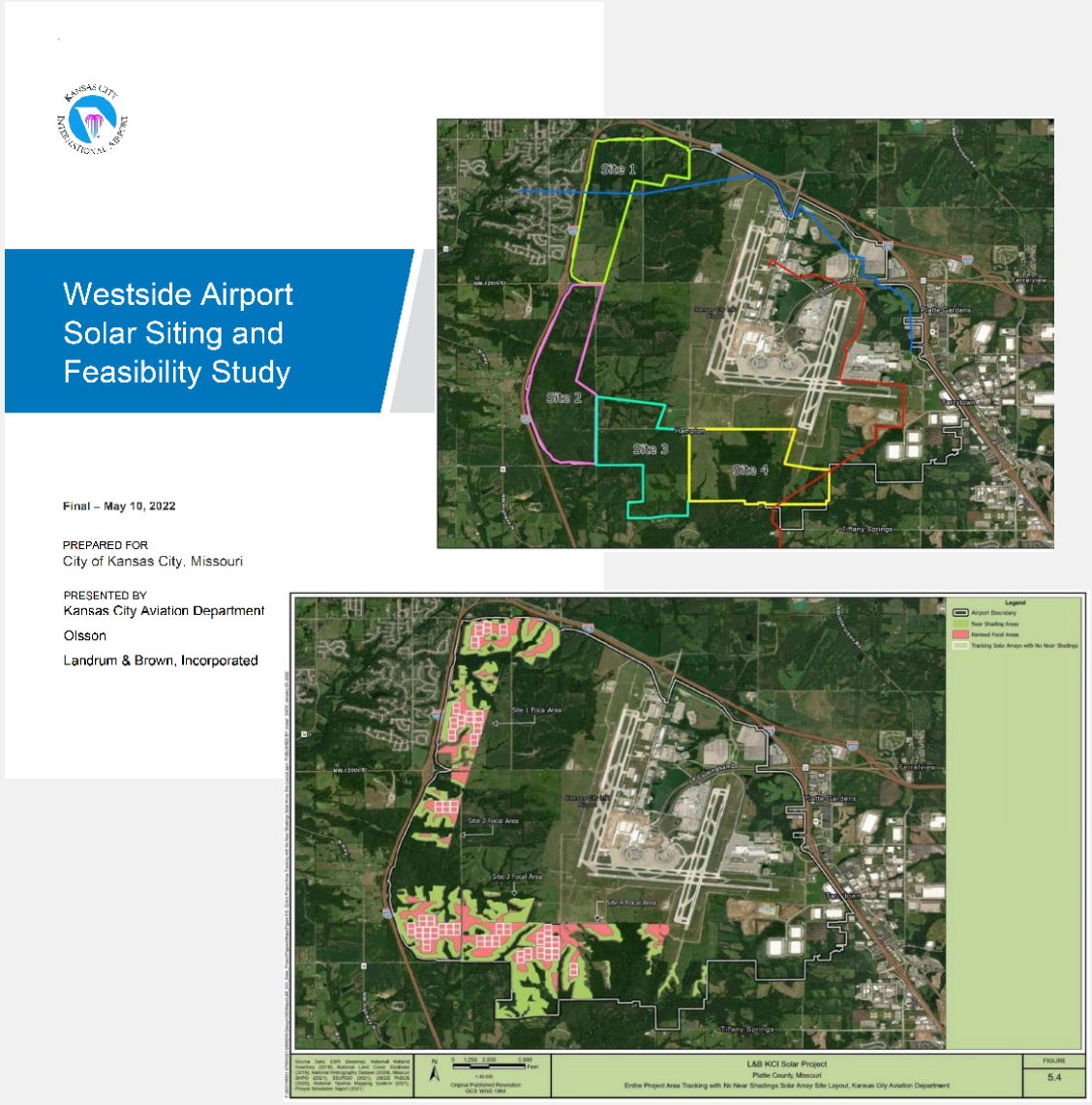
Transportation, Infrastructure, and Operations Committee

Project Goals

- Increase energy redundancy and resiliency
- Utilize solar on airport property, as non-aeronautical uses
- Position Kansas City as a national leader in sustainability measures
- Generate workforce development and job opportunities

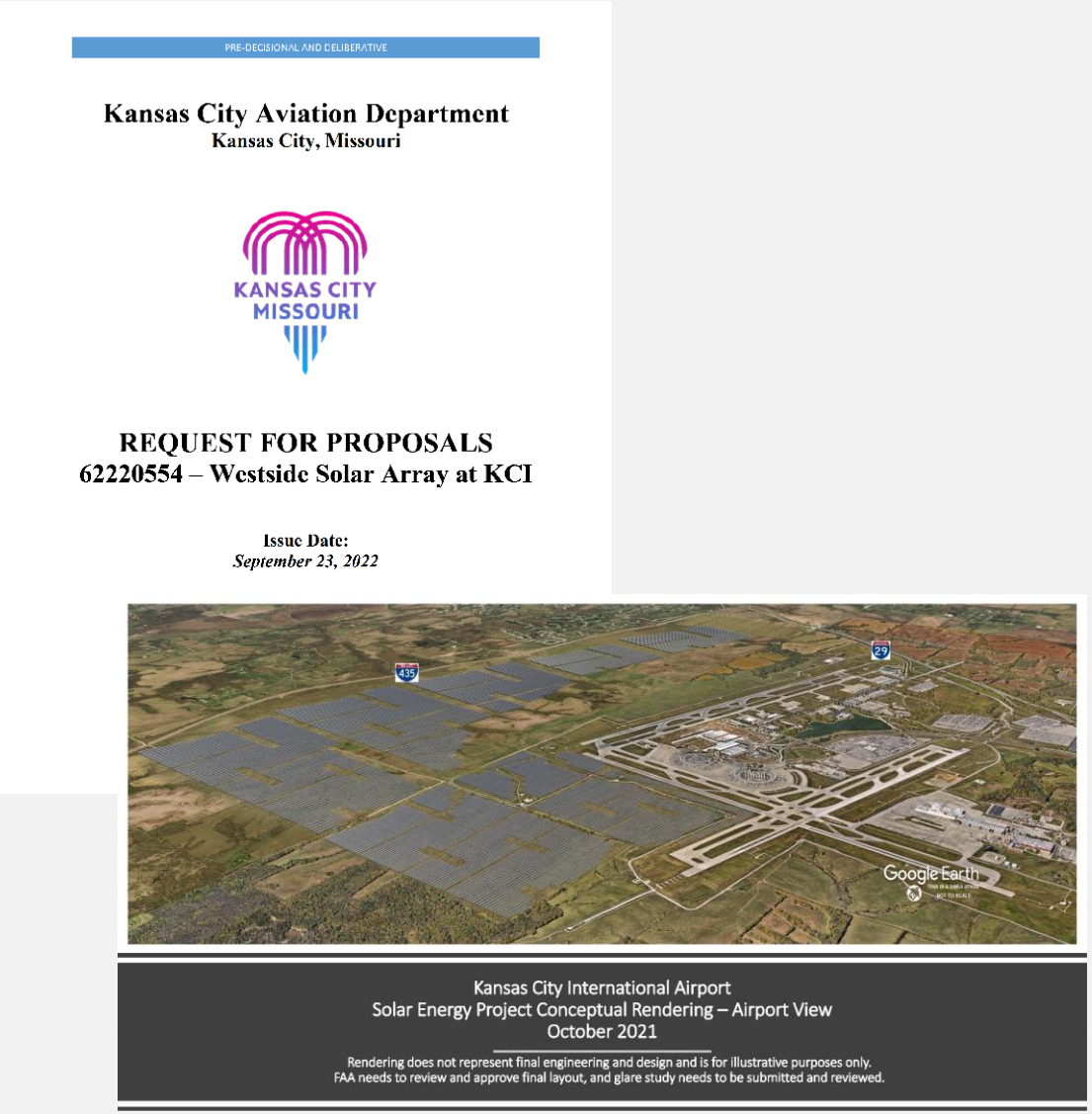
Feasibility Study

- Conducted in 2021-2022 by Landrum & Brown, Inc. and Olsson Associates
- Identified initial sites (4) on airport property (3,100 acres) for their potential opportunities to develop solar arrays
- Key considerations were: 1) airport solar case studies, 2) land availability, 3) preliminary energy output, 4) path to market and 5) next steps for implementation
- Based on the study findings, the City elected to move forward with a solar development Request for Proposal (RFP)



Request for Proposals

- City retained National Renewable Energy Laboratory (NREL) in March 2022 to assist with the development of an RFP
- A solar RFP was issued in September 2022 and five (5) proposals were received on February 8, 2023
- Interviews were held on April 24, 2023 of each of the five proposers
- The Selection Committee selected three finalists
  - Evergy, Inc. (816 Solar Consortium)
  - NextEra Energy Resources Development, LLC
  - Pedal Steel Solar
- The Committee requested revised proposals for a Phase I option capable of being implemented before summer 2026
- The Committee recommended negotiations with **816 Solar Consortium** for utility-scale solar system development at MCI


PRE-DECISIONAL AND DELIBERATIVE

Kansas City Aviation Department
Kansas City, Missouri

KANSAS CITY MISSOURI

REQUEST FOR PROPOSALS
62220554 – Westside Solar Array at KCI

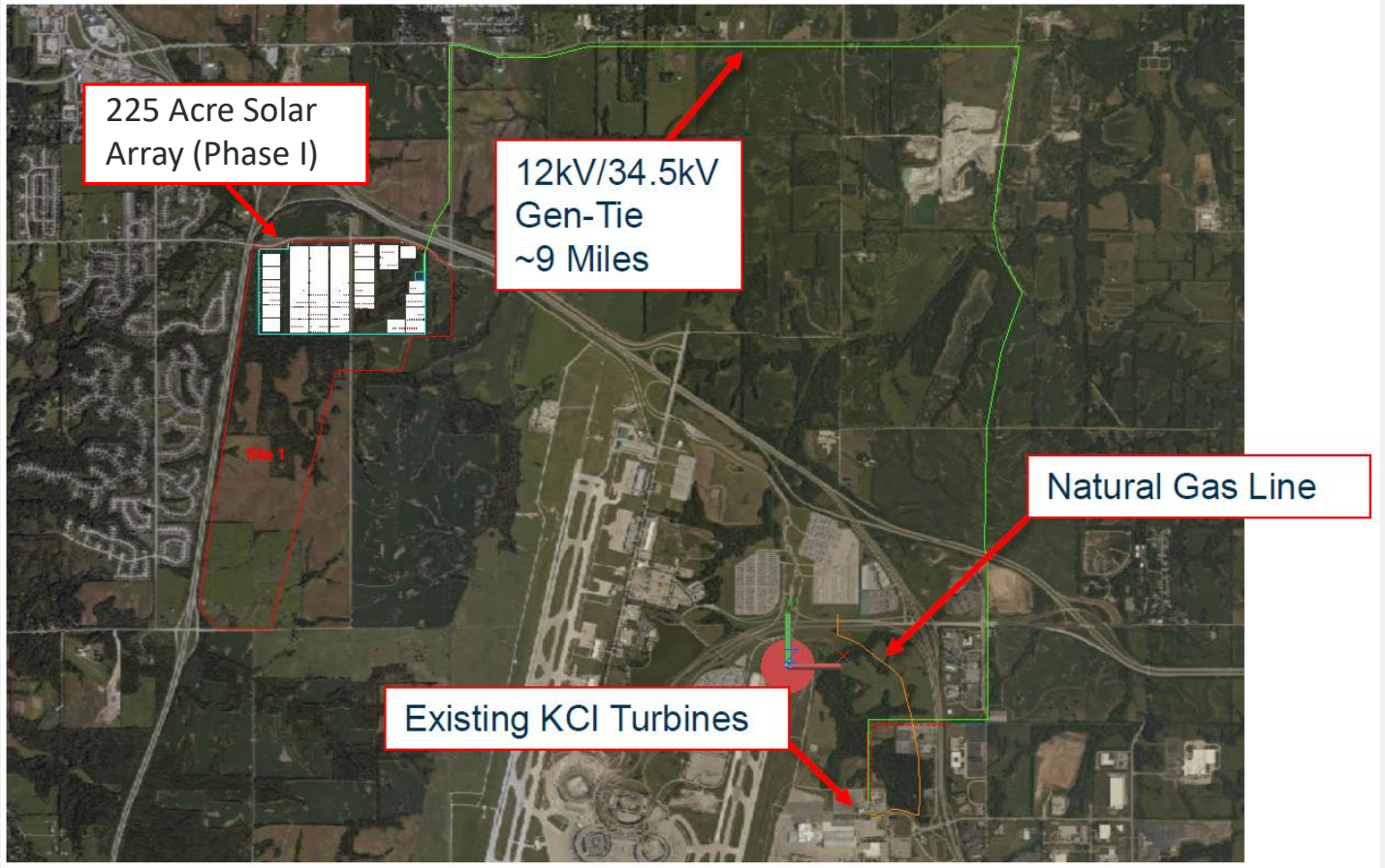
Issue Date:
September 23, 2022

Kansas City International Airport
Solar Energy Project Conceptual Rendering – Airport View
October 2021

Rendering does not represent final engineering and design and is for illustrative purposes only.
FAA needs to review and approve final layout, and glare study needs to be submitted and reviewed.

Phase I - Solar Array Implementation

Metric	Phase I
Capacity	~30 MWac
Interconnection	<24 months
Ground Acres	~225 acres
Lease Payment	$1,000/ac + 2% esc.
Net Capacity Factor	25.5%
Construction Timeline	18 months
Panel Needs	~75,000 – 550 W Panels
Earliest COD	December 2025



816 Solar Consortium – basis for selection

(Evergy, Burns & McDonnell, Savion, LLC and Herzog Contracting Corporation)

- Utilizing Evergy's electrical transmission and solar infra-structure allows delivery of **Phase I** project on an accelerated schedule sending electricity direct to the grid before 2026
- Under the **Phase I** proposal, the City would be the primary consumer of up to 30 Megawatts (MW) of electricity from the MCI solar array, plus up to 4 MW from the Hawthorn Energy Station array
- The **Phase II** development proposal envisions generation of nearly 246 MW on approximately 1,800 acres of land at MCI
- The City will own Solar Renewable Energy Credits associated with the project and may claim the environmental benefits further contributing to the City's goal of attaining carbon neutrality
- The Kansas City Aviation Department will potentially benefit from a land lease totaling nearly $9.3 million for a **Phase I** solar array over a proposed 30-year lease term
- The 816 Solar Consortium partners the region's electrical utility with locally-based engineering and contracting firms that are invested in the community and possess renewable energy project development experience
- Negotiate with 816 Consortium to develop and investigate maximum coverage of solar facilities at MCI, understanding constraints and opportunities

Permitting Requirements - Next Steps

- Coordinate with the FAA regarding National Environmental Policy Act (NEPA) documentation – *In Progress*
- Conduct a detailed market evaluation to determine the Fair Market Value (FMV) of the airport property to be leased – *In Progress*
- Conduct Environmental Assessment (EA) to determine any significant environmental impacts associated with solar array development – Scope of Work Development - *In Progress*
- Complete study to minimize impacts to FAA Navigational Aids (NAVAID) and Airport Surveillance Radar (ASR), and study/confirm solar glare will not impact the Airport Traffic Control Tower (ATCT)
- Coordinate and conduct airspace review to evaluate all phases of development and construction of solar facilities and minimize impacts to airspace surfaces