

Project Name: Rooftop Solar at the Moana Springs Community Aquatics and Fitness Center

Project Purpose: To install rooftop solar on the new Moana Springs Community Aquatics and Fitness Center

Project Scope

The City of Reno prioritized expanding distributed energy resources, including solar, under its Sustainability & Climate Action Plan adopted in July 2019. This rooftop solar project includes a 250 KW roof-mounted solar system located on the new Moana Springs Community Aquatics and Fitness Center (Moana Pool). The Moana Pool is estimated to consume 2,419,890 kWh of electricity annually. This project will help to reduce the cost of electricity through reducing demand and consumption costs at the facility. The rooftop system will be completed by the summer of 2024. The timeline and activities are:

Milestone	Date
Produce Request for Bids	April 2023
Begin NEPA review	April 2023
Solicit Proposals	May 2023
Execute Contract	June 2023
Begin solar installation	December 2023
Project completion	July 2024

The rooftop solar project is one component of the Moana Pool. The City broke ground on a new 52,600 square foot community pool on August 10, 2022. The two-level facility, located at 240 West Moana Lane, will include:

- Indoor competition pool for swimming, water polo, and diving, measuring 50 meters by 25 yards. The pool is about 12,000 square feet;
- Indoor multi-use pool for lessons and leisurely swimming. Includes a water slide, zero-depth entry, splash features, and a resistance pool (lazy river) measuring 60 feet by 60 feet. The pool is about 3,200 square feet;
- Outdoor heated soaking pool for relaxing, measuring 58 feet by 17 feet and about 900 square feet;
- Multi-purpose rooms for classes, birthday parties, and community meetings;
- Locker rooms on the first floor;
- Fitness Center on the second floor, measuring about 5,000 square feet. There will be venue seating for over 400 guests and locker rooms, as well as competition features such as a sound system and scoreboard.

Community benefits include an ADA compliant playground, bus drop-off location, underground electric, approximately 150 newly planted trees, as well as electric vehicle charging.

This project will help to reduce air pollution and carbon emissions from fossil fuel burning and transportation of fuels into Nevada. While Nevada is a leader in geothermal and solar energy resources, 87 percent of Nevada's energy in 2016 was imported in the form of coal, natural gas and other fossil fuels, the main source of Nevada's carbon emissions. Importing fossil fuels for energy generation erodes air quality as the fuels are burned to generate energy. The project environmental benefits include:

1. 1,715 Metric Tons of Carbon Dioxide (CO₂) equivalent avoided; or
2. Removing 382 gasoline powered passenger vehicles from the road for one year.¹

¹ <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>