

CASE STUDY: DC Department of General Services (DGS)



DC GOES SOLAR IN A BIG (AND COMPLEX) WAY

In early 2015, DC DGS also turned to the sun, and sought to develop one of the largest municipal portfolios of onsite solar projects in the United States as follows:

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| 34 District Facilities: schools, hospitals, recreation centers, and police training facilities | 35 Individual Projects: 34 rooftops plus one carport | 10.9MW Installed Capacity |
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BUT OBSTACLES STOOD IN THE WAY

As one of the largest and most complex onsite municipal solar projects in the United States, the DGS portfolio presented several notable challenges. The most significant hurdles were:

1. The sheer number of sites and projects across the city;
2. A challenging timeline of under 12 months; and
3. Multiple constraints at each site so as not to disrupt operations at schools and public safety facilities.

HERE'S HOW SOL SYSTEMS CLEARED THESE HURDLES

CHALLENGE: 34 oftakers with unique needs

PATH FORWARD: Coordinate reliable scheduling for each oftaker

Of course, this was no small task. As with most municipal entities, DGS required multiple levels of approvals from internal stakeholders. Each faced their own separate challenges, so implementing only one schedule wouldn't translate to success. Sol Systems worked individually with each oftaker to establish the most effective timeline to best meet these unique needs, and to ensure that milestones could be met in a timely fashion.

CHALLENGE: Design, construct, and closeout over 90% of the 35 projects simultaneously in twelve months

PATH FORWARD: Provide transparent communication and coordination channels for all parties involved.



BALLOU STUY HIGH SCHOOL, WASHINGTON, DC

The sheer size of the project and number of parties made the portfolio that much more complex. Thus, establishing a transparent channel of communication between Sol Systems and the oftakers became a major focus. Sol customized the project delivery plan utilizing web-based tools, and established a state-of-the-art coordination, tracking, and communication system. This provided clarity and transparency for DGS, each oftaker, and Sol's delivery partners enabling concise management. Sol fully leveraged its intensive system to coordinate among multiple subcontractors and communicate with all stakeholders throughout development.

CHALLENGE: Numerous space and locational constraints

PATH FORWARD: Utilize Sol Systems' expertise for each project to meet design requirements

Each site within the DGS portfolio had its own limitations. Superior array designs that worked within different layouts of each rooftop were a necessity for implementation. The Sol team maximized space for the arrays, and meticulously created optimal designs during diligence. The result: a portfolio of 35 individual projects delivered to meet each oftaker's individual circumstances.

\$25million

The amount tax payers will save over the deal's 20-year term

140Jobs

Construction and design created 140 temporary jobs, plus a projected five permanent jobs for ongoing operation and

13,800MWh

The portfolio will produce roughly 13,800 MWhs of electricity each year, equal to reduction in CO2 emissions from over 10 million pounds of coal burned.