January 2026

Safety of **Remote Virtual Inspections** for Residential Solar and Storage Systems

IREC

Independent leadership.
Trusted clean energy expertise.

INTERSTATE RENEWABLE ENERGY COUNCIL

About IREC

For four decades, Interstate Renewable Energy Council (IREC) has served as a leader to enable resilient, reliable and equitable clean energy for communities. IREC is an independent 501(c)(3) nonprofit whose mission is to build the foundation for rapid adoption of clean energy and energy efficiency to benefit all.

IREC's Local Initiatives program works with local governments (cities, counties, and regional organizations) to reduce barriers to solar, storage and electric vehicle deployment. This work focuses on permitting, inspection, planning and zoning, as well as safety.

SolSmart Program

Since 2016, IREC's SolSmart program has helped communities streamline their approach to solar deployment. SolSmart provides free training and technical assistance to local governments, achieving meaningful results:

- Over 590 local governments have completed their SolSmart designation, streamlining permitting and accelerating solar deployment in communities across the U.S.
- More than 200 communities now achieve three-day permit turnaround times—down from weeks or months.
- Hundreds of SolSmart communities have enabled residential solar as a permitted use in their zoning regulations.
- An independent, peer-reviewed study found that communities with SolSmart designations increased solar capacity by 18-19% per month, compared to non-designated communities.

Sustainable Energy Action Committee (SEAC)

From April 2020 to October 2025, IREC led a group called the Sustainable Energy Action Committee (SEAC), a forum for collaboration on guidelines for implementation of codes and standards for permitting and inspection practices of renewable energy systems. In 2024, SEAC drafted several code change proposals to reduce unintended barriers to clean energy systems while maintaining safety, as part of the International Code Council's (ICC) Group B for the 2027 International Building Code (IBC), International Residential Code, and the International Existing Building Code (IEBC). Previously, SEAC's proposals had a 74% success rate in ICC's 2024 code change process. These are codes that will eventually be adopted by communities in their local codes.

Acknowledgments

IREC would like to thank the following organizations and individuals for their support in making this research possible:

- IREC staff who contributed to the development of the report, including authors Toyah Callahan and Wrishija Roy who led the research and writing of this report, Megan Berry for the design and layout, and Gwen Brown for editing and review.
- The many individuals employed with local Authorities Having Jurisdiction (AHJs), software providers, and quality assurance inspectors who provided firsthand perspectives on remote virtual inspection through interviews that formed the basis of this research. The jurisdictions and organizations represented are detailed in the Executive Summary on page 3.
- Permit Power, a nonprofit organization that aims to make it cheap and easy for American families to power their lives, for financial support to enable this original research. IREC maintains strict standards of independence and financial support does not influence the content of our work.

Table of Contents

Executive Summary

This white paper was developed by the Interstate Renewable Energy Council (IREC) with support from Permit Power to explore the safety of remote virtual inspections (RVI) for solar and/or battery energy storage systems (BESS) in the U.S. The paper details the history and current prevalence of RVI and provides a qualitative review of its safety and benefits compared to onsite inspections, based on interviews with local Authorities Having Jurisdiction (AHJs), software providers, and quality assurance inspectors in the U.S. that have utilized virtual inspections.

IREC interviewed the stakeholders from the following organizations:

- AHJs: Pima County, Arizona; City of Tucson, Arizona; Miami County, Ohio; Union County, Ohio; Santa Clara County, California; City of Los Angeles, California; and City of Altamonte Springs, Florida
- NY-Sun, a New York state solar subsidy program implemented by the New York State Energy Research and Development Authority (NYSERDA)
- RVI software providers: VuSpex, Blitzz
- Institute for Building Technology and Safety (IBTS)
- The National Fire Protection Association (NFPA)

This document is intended for local permitting offices and state policymakers who are considering the adoption of RVI for residential solar and BESS projects. For the purposes of this document, residential projects are defined as one- and two-family homes. Only inspections related to the safety of a solar and/or BESS system were considered within the scope of the paper (i.e., planning or zoning inspections were not included in this review).

Key takeaways from the interviews conducted for this white paper include:

- RVI utilizes remote visual tools to conduct inspections without a site visit. Common approaches include uploads of photos and/or videos or real-time video calling.
- A majority of the interviewed AHJs began utilizing RVI during the COVID-19 pandemic, though some AHJs began using it prior to that point.
- RVI can be a valuable tool for jurisdictions seeking more convenient inspections with flexible scheduling and safety benefits for inspectors.
- RVI can achieve code compliance checks that are equivalent to onsite inspections.
- IBTS performs RVI for quality assurance of residential solar and/or BESS in the State of New York. These installations have undergone onsite inspections at the AHJ level. IBTS reports that ~78% of installations pass the remote inspection and 22% fail, highlighting how RVI can offer more thorough inspection quality compared to onsite inspections.

History and Prevalence of RVI

Jurisdictions employing RVI have rapidly grown in number in recent years. The technology was especially utilized during the COVID-19 pandemic to reduce viral transmission and comply with social distancing measures. A 2022 report from the National Renewable Energy Laboratory (NREL), which surveyed 171 AHJs, found that only 9 jurisdictions (5% of respondents) offered RVI or photo submissions for residential solar and storage projects prior to the pandemic, but after the first outbreak, a total of 68 jurisdictions (40%) began

offering these options. When the City of Los Angeles, California, began offering RVI in 2020, its team of three inspectors completed 20 remote inspections each day, and less than five percent of these were for solar. Now, its team of six inspectors completes over 100 remote inspections daily, with nearly 30% of those inspections for solar/BESS projects. Other local governments offer RVI for services beyond residential solar and storage.

The current prevalence of RVI is underscored by the expansion of third-party services. Recent legislation in states like Texas (SB1202) and Florida (HB683) has extended access to third-party inspection providers, promoting further adoption of RVI. In addition, there are state-funded programs that offer rebates to installers/contractors, which then require a third-party inspection as a quality assurance metric after AHJs have conducted their inspection of installed solar and/or BESS. A key example of this is the partnership between New York State Energy Research and Development Authority's (NYSERDA)'s NY-Sun program and the Institute for Building Technology and Safety (IBTS), which was retained in 2019 to provide quality assurance services using RVI in the state of New York.

The initial IBTS program to conduct RVI was supported by the U.S. Department of Energy (DOE). Today, IBTS conducts, on average, 100-130 remote inspections per month on solar and/or BESS projects throughout the state of New York. Roughly 78% of these inspections are passing, with a ~22% fail rate, highlighting how RVI can result in improved safety and quality of installations.

One early adopter of RVI is Pima County, Arizona, which launched a remote inspection program in 2013. Pima County initially offered video inspections over Skype to address a large influx of building permits serving both their own and neighboring jurisdictions. Pima County now requires RVI for all residential solar and storage projects, using a virtual inspection software called VuSpex. The county uses a VuSpex feature known as Offline Field Report (OFR), which allows contractors to upload photos and recorded videos to be reviewed by the inspector on their own time. In the month of October 2025, the jurisdiction completed 276 OFRs for residential solar and/or BESS. Nearby, the City of Tucson, AZ reports an influx of solar inspections in 2025 to utilize the federal solar tax credit before year-end. Tucson performs up to 40 remote inspections per day with residential solar and/or BESS accounting for 80% of the inspections.

Home solar and storage systems can make up a significant portion of remote inspections conducted in the jurisdiction. Between 10-20% of all RVI conducted by Pima County, Arizona and Santa Clara County, California are for residential solar/BESS systems. Additionally, AHJs like the City of Phoenix, Arizona use RVI for construction projects related to the solar installation, such as main breaker derates.

Inspections may be conducted by the AHJ or a third-party company selected by the AHJ or installer. One way to enable RVI is by utilizing virtual inspection software, such as VuSpex, iWorQ, and Blitzz. The cost for the AHJ to use an advanced software program can range from $4,000 to $40,000 per year, depending on the jurisdiction size and number of annual inspection requests. These programs integrate with commonly used government interface software, like Accela and Tyler Technologies. Some jurisdictions may opt out of using advanced software to conduct inspections, instead utilizing low to no-cost tools like

Google Form, email and platforms like Microsoft Teams, FaceTime, Google Meet, or Zoom. The inspector may take screenshots of the solar and storage system during the call and upload the photos directly to a preferred software. VuSpex offers real-time video calling within its own app alongside features like geotagging and a built-in flashlight. Inspectors can do a thorough inspection of a system's hardware using just RVI as long as clear and close-up pictures and videos are recorded. A live video call can also provide a thorough inspection, given a strong network signal.

List of Jurisdictions That Offer RVI for Residential Solar and/or BESS

Below are a sample of jurisdictions that offer RVI for rooftop solar and/or BESS:

State	Jurisdiction	Inspection Types	Platform
AZ	City of Phoenix	Video call	Cisco WebEx
	City of Tucson	Video call	FaceTime, Google Duo
	Pima County	Photo/video upload	VuSpex
	Pinal County	Video call, Photo/video upload	VuSpex
CA	City of Los Angeles	Video call	Google Duo
	City of Santa Rosa	Video call, Photo/video upload	FaceTime, Zoom
	Los Angeles County	Video call	FaceTime, Zoom
	Placer County	Video call	Microsoft (MS) Teams
	Santa Clara County	Video call, Photo/video upload	VuSpex
CO	City of Thornton	Video call	FaceTime, Google Meet
	Town of Erie	Photo/video upload	Email
FL	Alachua County	Video call, Photo/video upload	VuSpex
	City of Altamonte Springs	Video call	GoToMeeting
	City of Pensacola	Video call	FaceTime, Skype
	City of Tampa	Video call, Photo/video upload	VuSpex
	Hillsborough County	Photo/video upload	VuSpex
	Miami-Dade County	Video call	MS Teams, WhatsApp
	Osceola County	Video call, Photo/video upload	VuSpex
NC	City of Asheville	Video call	Google Meet
NV	City of North Las Vegas	Video call	Any media platform
	Clark County	Video call	Google Duo
NY	State of New York	Photo/video upload	Salesforce

State	Jurisdiction	Inspection Types	Platform
OH	Miami County	Video call	FaceTime, Skype
	Union County	Video call, Photo/video upload	VuSpex
TX	City of Austin	Video call	
	City of Tyler	Video call, Photo/video upload	VuSpex
	City of Waco	Video call, Photo/video upload	VuSpex
VA	Arlington County	Video call	FaceTime, Google Duo, MS Teams

For an extended list of jurisdictions offering RVI, see the Appendix.

Safety of Installations Inspected by RVI

Interviewees for this paper report that comprehensive remote inspections can enable code compliance checks that are equivalent in quality to comprehensive onsite inspections. RVI can also offer, in most circumstances, a higher degree of safety benefits compared to onsite inspections. This is because RVIs eliminate exposure to physical hazards that could potentially occur during an onsite inspection, such as falls from the roof or exposure to live electrical elements. "Some AHJs have been able to add new inspection types to their protocols (roofing, solar, etc.) that were previously forbidden by insurance policies," said Alex Hamberger, Director of Strategic Accounts at Blitzz. "Where they used to rely on a signed affidavit from the contractor stating that everything had been done to code "to the best of their knowledge," using a remote video tool like Blitzz has helped the AHJs verify exactly what has been done, all while keeping their inspectors' boots on the ground (literally)." Blitzz includes standard residential solar and storage systems among projects that can safely undergo remote inspections.

RVI for residential solar and storage systems follows the same rules and standards as onsite inspections, assessing compliance with the same electrical, building, and fire codes. Inspectors also report that they can achieve an equivalent level of detail about the project they are inspecting by using photo and video technology to review the systems. "If done properly, RVI can exceed onsite inspections in terms of quality assurance," said Rudy Saporite, Program Director, Energy & Sustainability at IBTS. In the field, inspectors are on their own in the case of questions or uncertainty. Behind a computer, they can get help from their chief electrical inspector.

Jurisdictions can enforce specific best practices to ensure that pictures and videos match the property being inspected. For instance, installers/contractors may be required to enable location services on their devices when using inspection software. This allows for geotagging, which automatically stamps the GPS location onto the image and video files that are uploaded. Additional best practices can be found in the International Code Council (ICC) publication, "Recommended Practices for Remote Virtual Inspections (RVI)." The National Fire Protection Association (NFPA) has also created a Standard for Remote Inspections that provides safety guidance (see NFPA 915).

Key Steps to a Remote Virtual Inspection

PHASE ONE
Preparation (Installer)

1. Obtain all the necessary permits and plan approvals, and install the solar and/or battery energy storage system.
2. Confirm RVI is permitted in the jurisdiction.
3. Schedule the inspection if conducting a real-time video call.
4. Provide all permit details to the inspector.
5. Prepare the job site and required equipment. Installer/contractor must have a sufficiently charged smartphone/tablet with a camera and 4G/5G signal (the latter is only required for a real-time video call and not OFR). Other necessary tools may include a flashlight, tape measure, Ground Fault Circuit Interpreter (GFCI) tester, and a ladder.
6. Submit preliminary documentation (if required): Some AHJs may require contractors/installers to submit photos showing racking prior to installation, equipment labels, and grounding points before the RVI begins.

PHASE TWO
Remote Virtual Inspection

1. The installer/contractor verifies the job site location by showing the building address and the front of the property before going to the installation area.
    - If an OFR is being submitted for the inspection, then the installer/contractor should take clear photos of all aspects of the installation specified above. The AHJ may provide the installer/contractor with a checklist of photos, details on photos that must be taken at specific angles, and/or instructions on how to upload the photos.
    - If conducting a real-time video inspection, the inspector contacts the installer/contractor at the scheduled time via the selected platform (e.g., FaceTime, Microsoft Teams, Zoom, VuSpex, Blitzz). The installer/contractor follows the inspector's directions by moving the camera as instructed.

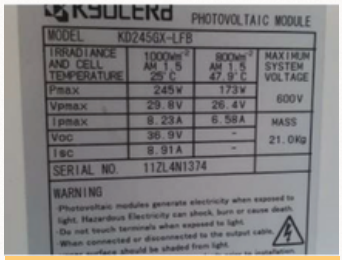
2 The inspector will ask for visual confirmation of specific aspects of the installations, which may include:

- **The Roof/Array:** Number of modules, mounting system integrity, fire pathways, wire management, and the general condition of the system

Inverter


Racking & Wire Management

- **Electrical System:** Inverter(s), disconnect switches (AC and DC), wiring connections, grounding points, main electrical panel, proper labeling, and overcurrent protection devices



Module Label


AC Disconnect

- **Storage System:** Battery location, transfer switch, serial numbers and equipment display readings

The inspector will follow guidelines that are typically found in an on-site inspection checklist for residential solar and storage systems.

3 The inspector will ask additional questions and request close-up views of specific items using tools like a flashlight. The installer/contractor should be prepared to provide additional clarity.

PHASE THREE
Results and Follow-Up

1 At the end of the RVI, the inspector will inform the installer/contractor if the installation passed, failed, or is not ready for final inspection, or the results will be delivered in writing shortly after the inspection. The results are entered into the AHJ's database.

2 If the installation failed, the inspector will note the issues for the installer/contractor to correct.

3 After the corrections are made, the installer/contractor will need to schedule a follow-up RVI or an on-site inspection, as recommended.

4 If all inspection items meet code requirements and match approved plans, the inspection is passed and the final documentation is issued.

Racking & Wire Management photo courtesy of Pima County

Module Label, Inverter, and AC Disconnect photos courtesy of NYSERDA NY-Sun

Benefits of RVI

For Jurisdictions

RVI for residential solar and storage offers several benefits to inspectors and jurisdictions. The most pronounced benefit is seen in time savings. Many AHJs have a small team of 5-10 inspectors, or even just one inspector, to cover all permits within a city or county that could span thousands of square miles. Sometimes the same staff will do inspections for multiple counties, like the Miami Valley Region of Ohio, which accounts for five counties (Miami, Shelby, Mercer, Darke, Auglaize), or Pima County, Arizona, which has supported the City of Tucson with inspections in the past. For jurisdictions located in both large, rural areas and sprawling urban areas with high traffic, travel to an onsite inspection often takes two or more hours, thus limiting the inspectors to only a couple of inspections per day.

RVI eliminates travel time between inspections, allowing the inspector to complete many more inspections in a day. “RVI can almost double capacity for inspections,” says Rob England of Miami County, Ohio. “Counting driving time, inspections used to take 90 minutes. Now they are 45 minutes depending on scope of work. Inspectors probably gain a few hours each day with RVI.”

The inspector is also able to allocate more time to each inspection, which may enable a higher quality of work. RVI can also allow qualified inspectors to provide service over a wider geographic area, increasing access to experts across jurisdictions. Reduced travel time can also enable cost savings for jurisdictions through lower fuel expenses and reduced wear and tear on vehicles. Miami County, Ohio reports that it has reduced mileage per vehicle by approximately 1,000 miles per year due to RVI. In addition, expenses related to workplace accidents (i.e., vehicle crashes and construction-site accidents) and insurance may be reduced.

RVI can also address challenges related to reduced staffing and resources. A shortage of qualified inspectors, combined with a high number of building inspection requests, can lead to a backlog of requests and an overwhelming workload. Available inspectors can use RVI to provide same- or next-day inspections, as well as re-inspections with a quick turnaround. Blitzz reported in 2025 that use of its software resulted in 120+ remote inspections per inspector per year, which translates to 230 travel hours saved. They can also review OFRs on their own time, enabling work flexibility.

For onsite inspections, many AHJs steer clear of requiring inspectors to physically go onto the roof due to insurance liability. “There are certainly many types of inspections that can be done remotely, while staying within the inspector's comfort zone. Given the right tools, remote inspections can be as safe, if not safer, than in-person inspections,” said Alex Hamberger at Blitzz. “Inspectors do not have to get up on roofs, climb ladders, or crawl

under crawl spaces; they are able to stay out of harm's way while making the verifications that keep our built world safe."

In the interviews that were conducted, no evidence was presented that remote inspections may result in job losses for AHJs. In fact, RVI can enable inspectors to continue working in the face of unforeseen circumstances, such as unexpected weather changes or a physical condition preventing travel for onsite inspections. AHJs report that RVI can be especially useful during disruptions in utility service, ensuring the homeowner is not inconvenienced with a longer wait time from onsite inspections that require advanced scheduling.

For Installers/Contractors and Homeowners

RVI also offers a number of benefits for installers/contractors and homeowners. These include increased scheduling options with shorter time windows compared to onsite inspections, since the inspector does not have to travel onsite. "With traditional onsite inspections, customers were often provided a two-hour arrival window and inspectors spent a significant portion of the day traveling between sites," says Donald Crichlow with the City of Los Angeles, California. "Remote Video Inspections allow us to schedule precise 10–15 minute video inspections days in advance, substantially reducing wait times, improving predictability, and enabling inspectors to complete more inspections per day."

Additionally, with an OFR, the installer/contractor can take photos and record videos at the end of the install, instead of returning to the job site at a later date, thus saving time and costs. The installer/contractor can also submit the photos/videos for an OFR at their own convenience (even when the inspection office is closed). Also, typically the installer/contractor will receive a faster response regarding the inspection status. This benefit was highlighted during the interview with Altamonte Springs, Florida. The interviewee stated that if an issue is identified during the virtual inspection, then the installer may schedule a reinspection immediately and rectify the issue within hours, instead of receiving a failed inspection and scheduling a follow-up on a later date (as is the case with onsite inspections).

If the homeowner needs to be present for the inspection, a narrower window for when the inspection will take place—compared to onsite inspections, which usually only offer a large, general timeframe—is beneficial in reducing how much time they may need to take off work to be available. When an AHJ uses an inspection software, the homeowner may receive reminders of an upcoming virtual inspection, making it easier to reschedule or cancel an inspection without penalty if needed. Some inspection software programs also allow homeowners to track the location of the installer/contractor who is coming to their property to facilitate the RVI; this provides a more accurate expectation of the inspection start time.

Installers and homeowners can also expect their rooftop systems to come online much faster, creating a more efficient and satisfactory service for both parties. Finally, homeowners can also benefit from additional detail in their inspections. With RVI, the installer/contractor is responsible for taking photos or recording all of the system's elements, including those that may be difficult to access like wires located below a solar array. This can result in a more thorough inspection of the entire system.

Positive Testimonials from AHJs

State of Florida

"Remote inspection has been a no-brainer. It's so easy to use, and it saves us so much time by not having to double and triple back across town for simple verifications."

- Rick H, Chief Building Official and Master Code Professional serving AHJs in Florida

State of New York

“Remote and virtual inspections have become an invaluable tool for ensuring the safety and performance of solar and storage systems. By allowing inspectors to assess installations without requiring physical entry into a customer’s home or business, we strengthen safety and convenience while reducing delays. These inspections offer significant efficiency and scheduling flexibility; projects can move forward quickly without sacrificing quality. Remote reviews are held to the same high standards as onsite inspections, and experienced inspectors bring the same level of rigor and technical expertise to every assessment.”

- Amy Kasson-Muzio, Associate Director, Quality and Market Standards, NYSERDA

City of Los Angeles, California

“The City of Los Angeles’ Virtual Inspection Program has become an increasingly important tool in modernizing our inspection operations. By reducing or eliminating travel for eligible inspections, we estimate a 30–50% reduction in travel time per inspection, along with corresponding reductions in mileage, fuel use, and vehicle wear, allowing staff to focus more on inspection quality rather than logistics.

From a safety perspective, RVI has proven to be at least as safe—and in many cases safer—than onsite inspections. Inspectors are able to clearly observe work in real time, request additional verification as needed, and avoid unnecessary exposure to construction hazards, traffic risks, and unsafe site conditions, while maintaining inspection standards. Based on this experience, RVI is well positioned to function as a default inspection option for eligible inspection types, with onsite inspections reserved for cases where they are necessary.”

- Donald Crichlow, Senior Inspector and Daniel Orrante, Chief Inspector, City of Los Angeles, California

Pima County, Arizona

“Remote video inspection is a cornerstone component of Pima County’s inspection program. Pima County is roughly the size of the state of New Hampshire, and without a robust virtual inspection program, we would need significantly more staff to meet the demand.

We have been doing remote inspections for over 10 years. At first, contractors and staff were skeptical, but now, it is embraced by both. Contractors can often grab same day inspection slots at times that are convenient for them.

Pima County was part of the SolarAPP+ pilot program.[1] SolarAPP has been a huge win for our region, and when paired with remote inspections, it is a huge win for our customers too. Installers can complete their installation, and send us an Offline Field Report (OFR) detailing their installation using the SolarAPP checklist as a guide. There is no need for the installer to even schedule an inspection in most cases, and staff can review these reports as they come in."

- Tracey Gutheim, Business Operations Manager and Daniel Ice, Chief Building Official, Pima County Development Services

Miami County, Ohio

"Our 'VIP' (Virtual Inspection Program) has benefited our Building Department and our citizens by allowing for faster turnaround times. Our program became very valuable during the COVID epidemic years ago where we were able to continue our inspection schedule safely.

We cover such a large area that virtual inspections save drive time which results in fuel and wear / tear savings on our vehicle fleet. Also, this program allows for safer inspections in some cases, as contractors would be on the roofs instead of our inspectors."

- Rob England, Chief Building Official, Miami County, Ohio

Conclusion

Remote virtual inspections (RVI) for residential solar and storage systems, when conducted properly, can be safer and more efficient than onsite inspections. RVI removes the need for inspectors to be onsite exposing them to potential hazards while enabling a comprehensive assessment of systems and complying with safety standards. RVI leverages technology and provides mutual benefits for installers, inspectors and homeowners, provided there is clear communication and installers/contractors are properly trained. AHJs using RVI see reduced wait times and backlog of inspection requests along with increased efficiency and flexibility. The benefits of RVI do not sacrifice the safety and quality of inspections as RVI achieves equivalent code compliance checks when compared to onsite inspections. Due diligence must be conducted for both onsite inspections and RVI to ensure that installers/contractors and inspectors meet the jurisdiction's safety codes and standards.

[1] Solar Automated Permit Processing+, known as SolarAPP+, is a web-based platform that automates solar permitting for local governments and other authorities having jurisdiction. Its development was funded by the U.S. Department of Energy (DOE) and initially managed by the National Renewable Energy Lab (NREL), in collaboration with local building officials and inspectors, standards development organizations, and solar installers. Learn more at https://www.gosolarapp.org/about.

References

U.S. Department of Energy Building Technologies Office, *Remote Virtual Inspection (RVI)*, https://www.energycodes.gov/remote-virtual-inspection (accessed Nov. 10, 2025).

Northeast Energy Efficiency Partnerships and Midwest Energy Efficiency Alliance, *Communities Utilizing Remote Virtual Inspection (RVI),* (Jan. 2024), https://neep.org/sites/default/files/media-files/communities_using_rvi_final.pdf.

City of Rancho Palos Verdes, *Inspection Checklist Guide for PV Systems in One- and Two- Family Dwellings*, https://www.rpvca.gov/DocumentCenter/View/7105/Inspection-Checklist-Guide-for-PV-Systems-PDF?bidId=.

International Code Council, *Recommended Practices for Remote Virtual Inspections (RVI),* (May 2020), https://icc-cds.com/wp-content/uploads/Remote_Video_Insp_FINAL_w_Covers-5-7.pdf.

Jesse R. Cruce, et al., *Residential Solar Adoption Timelines and Impacts from the COVID-19 Pandemic*, National Renewable Energy Laboratory, (Sept. 2022), https://www.nrel.gov/docs/fy22osti/83529.pdf.

Los Angeles County Public Works, *Remote Virtual Inspection Rooftop Solar Photovoltaic System*, (Aug. 2021), https://pw.lacounty.gov/building-and-safety/docs/RVI%20Rooftop%20Solar%20PV.pdf.

Appendix

Below is an extended list of jurisdictions that offer RVI for various permit requests. This list is not exhaustive and is subject to change.

Note: Highlighted entries denote jurisdictions that offer RVI for residential solar and/or BESS installations.

State	Jurisdiction	Inspection Types	Platform
AZ	City of Phoenix	Video call	Cisco WebEx
	City of Tucson	Video call	FaceTime, Google Duo
	Pima County	Photo/video upload	VuSpex
	Pinal County		VuSpex
	Yavapai County	Video call, Photo/video upload	VuSpex
CA	City of Corona	Video call	Camino
	City of Los Angeles	Video call	Google Duo
	City of Palm Desert	Photo/video upload	Clariti
	City of Sacramento	Video call, Drones	VuSpex
	City of San Diego	Video call	MS Teams
	City of San Mateo	Video call	Blitzz
	City of San Ramon	Video call	FaceTime, MS Teams
	City of Santa Ana	Video call	FaceTime, Google Duo
	City of Santa Barbara	Video call	FaceTime, Google Duo
	City of Santa Rosa	Video call, Photo/video upload	FaceTime, Zoom
	Los Angeles County	Video call	FaceTime, Zoom
	Placer County	Video call	MS Teams
	San Bernardino County	Video call	EZ Inspect
	Santa Clara County	Video call, Photo/video upload	VuSpex
	Sonoma County	Video call, Photo/video upload	VuSpex
CO	City of Centennial	Video call	FaceTime, Skype
	City of Thornton	Video call	FaceTime, Google Meet
	Town of Erie	Photo/video upload	Email

State	Jurisdiction	Inspection Types	Platform
CT	Town of West Hartford	Video call	FaceTime, Skype
DE	New Castle County	Video call	FaceTime, MS Teams
FL	Alachua County	Video call, Photo/video upload	VuSpex
	Brevard County	Photo/video upload	VuSpex
	Charlotte County	Video call, Photo/video upload	VuSpex
	City of Altamonte Springs	Video call	GoToMeeting
	City of Fort Walton Beach	Video call	FaceTime, Skype
	City of Marco Island	Photo/video upload	Citizen Self Service
	City of Pensacola	Video call, Photo/video upload	FaceTime, Skype
	City of Tampa	Video call, Photo/video upload	VuSpex
	City of Venice	Video call, Photo/video upload	VuSpex
	Hillsborough County	Photo/video upload	VuSpex
	Manatee County	Photo/video upload	VuSpex
	Martin County	Photo/video upload	VuSpex
	Miami-Dade County	Video call	MS Teams, WhatsApp
	Orange County	Video call	Camino
	Osceola County	Video call, Photo/video upload	VuSpex
	Pasco County	Video call, Photo/video upload	VuSpex
	Pinellas County	Video call, Photo/video upload	VuSpex
	Polk County	Video call, Photo/video upload	VuSpex
KS	City of Lawrence	Video call	FaceTime, Google Duo
MD	Prince George's County	Video call	FaceTime, Skype
MN	State of Minnesota	Video call, Photo/video upload	VuSpex
NC	Alexander County	Video call	
	Brunswick County	Video call	MS Teams
	City of Asheville	Video call	Google Meet
	New Hanover County	Video call	MS Teams

State	Jurisdiction	Inspection Types	Platform
NC	Town of Garner	Video call	MS Teams
	Wake County	Video call	
NH	City of Nashua	Video call	Zoom, Skype, Google Duo, Webex
NV	City of Las Vegas	Video call	VuSpex
	City of North Las Vegas	Video call	Any media platform
	Clark County	Video call	Google Duo
NY	State of New York	Photo/video upload	Salesforce
OH	Delaware County	Video call, Photo/video upload	Facetime, Google Duo, Zoom
	Miami County	Video call	FaceTime, Skype
	Union County	Video call, Photo/video upload	VuSpex
OR	City of Medford	Video call	Zoom, FaceTime
	City of Portland	Video call	MS Teams
PA	City of Philadelphia	Video call	
TX	City of Austin	Video call	
	City of Schertz	Video call, Photo/video upload	FaceTime, Zoom
	City of Sugar Land	Video call	VuSpex
	City of Tyler	Video call, Photo/video upload	VuSpex
	City of Waco	Video call, Photo/video upload	VuSpex
VA	Arlington County	Video call	FaceTime, Google Duo, MS Teams
	Fairfax County	Video call	
WA	Clark County	Video call	MS Teams