Attachment B:

SFA Transaction and Project-Level Report

As part of the Solar for All Terms and Conditions, EPA requires PEDA, the prime recipient, to report transaction and project-level data on a semi-annual cadence. PGCC, in turn, must collect this data for all projects it funds to report up to PEDA and EPA.

The OMB-approved reporting instruments can be found here: https://www.reginfo.gov/public/do/PRAViewIC?ref_nbr=202408-2090-001&icID=270003. Respondents should familiarize themselves with Appendix C – Data Dictionary and Appendix D – Transaction and Project Level Report. Note that this report is used for all three programs under the Greenhouse Gas Reduction Fund and not all data elements are relevant to Solar for All. In addition, EPA has indicated they plan to adjust these documents over the next few months to streamline and clarify reporting requirements for awardees, but as this process is not complete, Respondents should be prepared to provide all data elements requested in the OMB-approved forms.

An indicative but not exhaustive list of sample data elements is below. Conditional logic triggering the applicability of these data elements to each transaction/project can be found in the data dictionary.

Sample EPA Data Element Title	Data Element Definition	Picklist Values
Project Type (DE076)	Choose one of the pre-defined picklist values to define the project's target sector for greenhouse gas reductions. These are the same sector designations that the Terms and Conditions for the Greenhouse Gas Reduction Fund called "priority project categories" or "areas."	CLEANENERGY; BUILDINGS; TRANSPORTATION; INDUSTRY; AGRICULTURE; OTHER
Project Type Detail (DE077)	Choose the type of project.	GENERATION; STORAGE; MICROGRID; TRANSMISSION; WEATHERIZATION; ELECTRIFICATION; ZERO-EMISSIONS NEW CONSTRUCTION; ZERO-EMISSIONS RETROFITS; ENERGY EFFICIENCY; METHANE RECOVERY; FUEL SWITCHING; VEHICLECHARGING-REFUELING; OTHER
Project Equipment Useful Life (DE087)	Enter the useful life of the equipment (in months) that was installed through the use of the financial assistance product (in DE014). If there are multiple pieces of equipment on a site, then enter the shortest lifespan of the system in question.	

Project Site City (DE088)	Enter the municipality or the city for the physical address of the property or location that is receiving technical or financial assistance.	
Project Site State or Territory (DE089)	Enter the two-character abbreviation used by the USPS to identify the US state or territory for the project's location.	
Project Site ZIP Code (DE090)	Enter the five-digit USPS ZIP Code for the project receiving technical or financial assistance.	
Project Site Census Tract Code (DE091)	Enter the unique 11 digit numeric Census Tract Code that represents the location of the project. https://www.census.gov/programs-surveys/geography/guidance/geo-identifiers.html	
Project Site Census Tract and Block Group Year (DE092)	Enter the year of census tract and block group for the project site.	
Does Project Qualify as LIDAC? (DE096)	Choose one of the pre-defined picklist values that identifies how the project targets a low-income or disadvantaged community (or LIDAC). CEJST is the only qualification applicable for the Justice40 or "J40" initiative.	CEJST; EJSCREENSI; LIHOUSE; AFFHOUSE; TRIBAL; N/A
Is the asset owner not-for-profit? (DE101)	Select YES if the asset owner is a not for profit entity as defined in 2 CFR § 200.1	YES; NO
Is the asset owner a community? (DE102)	Select YES if the asset is owned by a public or private nonprofit organization that supports and/or represents a community and/or certain populations within a community through engagement, education, and other related.	YES; NO
Community Benefits Delivered (DE108)	CEEE Clean Energy, Electrification, and/or Energy Efficiency; TRANSP Clean Transportation; ZERO-E Zero Emissions Housing; HOUSING New Affordable and Sustainable Housing; CCMIT Climate Change mitigation-GHG emissions reductions/avoided; CCRES Climate Change resilience- resilience hub construction; households receiving climate change resilience benefits, etc.; REMED Remediation and Reduction of Legacy Pollution; WORKDEV Training and Workforce Development; FINMARKDEV Financial Market Development; NEWJOBS New jobs created and filled; PROJECT deployed in LIDAC(s); MEANINGFULCOMENGAGE Meaningful community engagement with community input influencing decisions	CEEE; TRANSP; ZERO-E; HOUSING; CCMIT; CCRES; REMED; WORKDEV; FINMARKDEV; REMED; NEWJOBS; PROJECT DEPLOYED LIDAC; MEANINGFULCOMENGAGE

Number of Households Served by Project (DE109)	Report the number of households receiving resiliency benefits from the project.	
Estimated Annual Household Savings Provided by Project (DE110)	Report the dollar value of the cost savings provided by the project on an annual basis.	
Description of Household Savings (DE111)	Clarify what is included in "costs savings" (e.g., utility bill savings; loan origination costs borne by financial assistance provider or other) and beneficiary who is receiving the savings.	UTILITYBILLSAVINGS; CAPITALCOSTREDUCTION; ORIGINATIONCOSTSAVINGS
Full-Time Equivalent Jobs Created [Construction] (DE114)	Report the number full-time equivalent (FTE) construction jobs (using a standard 40-hour work week) projected (at date originated) to be created in the project due to this financial assistance transaction.	
Source of Jobs Estimates (DE115)	NEWFINANCING Estimates based on actual or projected payroll data.; WAGEDATA Estimates based on state or local wage data and projected wage and salary expenditures attributable to project financing.; ECONOMICIMPACT Estimates based on economic impact modeling systems such as IMPLAN, RIMSII, or REMI.; RULEOFTHUMB Estimates based on developers “rules of thumb” about jobs created by type of business and square-footage built.; OTHER None of the above. Add the description in the following field.;	
Average Estimated Annual Household Energy Savings (DE130)	This field is a computed value and the output of the household savings calculator. Do not enter data into this field. *[Note from PGCC: the EPA household savings calculator is not finalized and we may need to submit data in this field in the first reporting cycle]*	
Clean Energy Type (DE151)	Clean energy is energy from renewable natural resources that are replenished on a human timescale. Choose the picklist value that describes the clean energy source for the clean energy project in question.	SOLAR; WIND; HYDROPOWER

Nameplate Capacity (DE152)	The nameplate capacity, sometimes also known as the "rated capacity" or "installed capacity," is the maximum output measured in kWac of an installed and grid-connected distributed electrical generation plant. The nameplate capacity can be contrasted with the capacity factor or the actual generation of the plant over a given time due to real-world conditions and factors such as downtime for maintenance or prevailing weather conditions, like cloudiness for solar photovoltaics or windiness for electric turbines.	
Capacity Factor (DE153)	A ratio of the expected generation of electricity as compared to the maximum possible generation expressed as a percentage. The capacity factor can be contrasted with the nameplate capacity or the theoretical maximum capacity measured in kWac.	
Storage Technology Type (DE54)	Clean energy storage is the storing of energy as electricity or heat and using it at a later time when clean energy is not being actively generated or to supplement needs when demand for electricity exceeds supply. Choose the storage technology type that describes the storage in the project.	BATTERIES; FLYWHEEL; COMPRESSED AIR; PUMPED HYDRO; HYDROGEN; THERMAL ENERGY STORAGE; MECHANICAL ENERGY STORAGE
Storage Power Capacity [in kW] (DE155)	The maximum output of the energy storage device in kilowatts (or kW).	
Storage Energy Capacity [in kWh] (DE157)	Enter the maximum volumetric energy output of the storage device measured in kilowatt-hours. One kilowatt-hour (kWh) is equal to 1,000 watt-hours (or Wh).	
Is the power source only renewable? (DE161)	Projects that are directly connected to and draw all their power from renewable energy sources can answer this question as "Yes." Projects that store energy from the grid, in part or whole, should answer this question as "No."	YES; NO
Principal Amount (DE241)	Report the amount (dollar value) of the original loan principal provided in this transaction. [*Note from PGCC: as this is a required field, PGCC will ask EPA if this should be the lifetime cost of the PPA or the subsidy amount provided]*	
Is Project Subject to BABA Requirements? (DE242)	Select Yes if the project Is Subject to BABA Requirements as required in Pub. L. No. 117-58, §§ 70901	YES; NO
Is Project Subject to DBRA	Select Yes if the project is subject to Davis-Bacon and Related Acts (DBRA) reporting. https://www.epa.gov/grants/davis-bacon-and-related-acts-dbra	YES; NO

Requirements? (DE243)		
DBRA Construction Category (DE250)	Select the type of construction represented in the wage determination. Building Construction includes the construction, alteration, or repair of sheltered enclosures with walk-in access for the purpose of housing persons, machinery, equipment, or supplies and the associated installation of utilities and equipment, as well as incidental grading and paving. Residential Construction includes the construction, alteration, or repair of single family houses, townhouses, and apartment buildings of no more than four stories in height and all incidental work, such as site work, parking areas, utilities, streets, and sidewalks. https://www.dol.gov/agencies/whd/government-contracts/construction/faq/conformance	BUILDING CONSTRUCTION; RESIDENTIAL CONSTRUCTION
Asset owner is (DE251)	Select the ownership arrangement of asset. Refer to n 2 CFR § 200.1 and https://www.nrel.gov/docs/fy23osti/86210.pdf	UTILITY-OWNED; THIRD-PARTY-OWNED; COMMUNITY-OWNED; HOUSEHOLD-OWNED
Transaction Date (DE252)	Enter the date the financial transaction occurred.	
Transaction Identifier – Counterparty (DE253)	Optionally report the transaction ID that your organization's counterparty uses as its transaction ID.	
Project Site Address Line 1 (DE254)	Enter the project site address in the following fields. This field, Address Line 1, captures the primary data for an address and should include the street number (building or house number), street name, and the cardinal direction (N, S, E, or W) for the street.	
Project Site Address Line 2 (DE255)	Enter the project address in the following fields. This field, Address Line 2, captures the secondary data for an address usually within the building, such as the apartment or suite number or any special delivery instructions.	
Solar PV Project Type Usage (DE256)	Choose the end beneficiary of the solar photovoltaic system.	SINGLEFAMILY; MULTIFAMILY; COMMUNITY SOLAR;

Enabling Upgrades (DE258)	Enabling upgrades refer to infrastructure that are required to facilitate the installation of distributed generation or storage per the Solar for All terms and conditions.	PANELUPGRADES; ROOFUPGRADES; GRIDUPGRADES; OTHER; N/A
Is household electrified for the first time? (DE259)	Is the household being electrified for the first time?	YES; NO
Investment Tax Credit (ITC) Amount (DE260)	Enter the dollar value of the expected Investment Tax Credit (ITC) into this field. See the DOE's website for more information on this tax credit for homeowners: https://www.energy.gov/eere/solar/homeowners-guide-federal-tax-credit-solar-photovoltaics	
Principal Subsidy Amount at Time of Origination (DE261)	This field records the upfront subsidy that reduces the upfront or starting principal balance and forms one type of subsidy on a financial product that is not a full subsidy or cash grant to the end beneficiary.	
Does Project Site Qualify as LIDAC in CEJST? (DE263)	EPA will count the project towards the Justice40 or "J40" initiative reporting only if the project site qualifies in CEJST. Additionally, if this field is marked "NO," then please select a picklist value from Does Project Qualify as LIDAC (DE096). CEJST's website can be found at: https://screeningtool.geoplatform.gov/	YES; NO
Date of Project Completion (Actual) (DE264)	This is the date the project is placed in service or connected to the grid.	
Project Interconnection Date (DE265)	This field records the interconnection date or the date that the distributed generation or storage system was connected to the utility grid.	
Investment Tax Credit (ITC) Direct Pay Amount (DE266)	Enter the expected amount of "elective pay" often times called "direct pay" as a result of qualifying for the tax credit. Please note that this field should be used only if the organization or legal entity is tax exempt. Under the Inflation Reduction Act, tax-exempt and governmental entities will be able to receive a payment equal to the full value of tax credits for building IRS-qualifying clean energy projects. See this website for more detail: https://www.irs.gov/credits-deductions/elective-pay-and-transferability	
Project Site County (DE267)	Enter the name of the county where the project site is located.	

Subsidy Type (DE268)	Choose which type of subsidy applies in the case of the financial assistance reported in this record (or row). If the subsidy is offered to the end recipient or beneficiary prior to the installation of the project, select "UPFRONT". If the subsidy is offered to the end recipient or beneficiary after the installation of the project, select "REBATE".	UPFRONT;REBATE;SUBSCRIPTION SUBSIDY
Project Resiliency Measures (DE269)	Choose the resiliency measures implemented at the project site to ensure continuity of operations in case of emergency or disaster.	STORAGEABOVEFLOODZONE;
Solar Lease Monthly Amount (DE270)	Enter the total monthly amount for the solar lease contract with the end recipient (the household which has the solar PV array).	
Solar Lease Term (DE277)	Enter the duration in months for the solar lease.	
Solar Lease - Fixed or Variable Monthly Lease Amount (DE278)	Choose whether the solar lease contract described in "Solar Lease Monthly Amount" field is a fixed amount which does not vary over term of the lease contract or whether the amount is variable over the term of the contract.	FIXED MONTHLY LEASE AMOUNT; VARIABLE MONTHLY LEASE AMOUNT
Project Placed in Service Date (DE286)	Enter the date the project is placed in service for the purposes of tax credit compliance with the US Treasury's Internal Revenue Service.	Not applicable
Total Photovoltaic System Cost (DE296)	Enter the total cost for the photovoltaic system, including all soft costs, like labor, licensing or permitting fees, and all hard costs for materials.	
Photovoltaic Panels Cost (Materials) (DE297)	Enter the total cost of the photovoltaic panels (or modules) for the project, including any shipping and taxes paid to deliver them to the worksite. Do not include any installation or labor costs.	
Inverter Cost (Materials) (DE298)	Enter the cost for the inverter that is required to convert the current from the photovoltaic panels (direct current) to alternating current ("AC") in order to connect the generation source to the electrical grid.	
Remainder of System Cost (DE299)	Enter the remainder of the systems cost excluding the Photovoltaic Module Cost (DE297), the Inverter Cost (DE298), the Interconnection Cost () and Permitting Fees () into this field. Summing those four fields and this field must equal the Total Photovoltaic System Cost (DE296).	
Interconnection Cost (DE300)	Enter the interconnection costs for the photovoltaic or clean energy generation project.	

Permitting Fees Cost (DE301)	Enter the permitting fees for the clean energy generation project.	
Solar Panel Type (DE302)	Choose the solar panel type from the picklist values.	
Contract Identifier for Financial Assistance (DE310)	Enter the unique identifier for the financial assistance contract that the recipient (typically, the borrower) will use to identify its repayments to the prime recipient or the subrecipient.	
Enabling Upgrades Cost (DE311)	Enter the total cost for the enabling upgrades for the project.	
Project Site Census Block Group (DE314)	Enter the census block group for the project site. Block groups (BGs) are statistical divisions of census tracts, are generally defined to contain between 600 and 3,000 people, and are used to present data and control block numbering. A block group consists of clusters of blocks within the same census tract that have the same first digit of their four-digit census block number. For example, blocks 3001, 3002, 3003, . . . , 3999 in census tract 1210.02 belong to BG 3 in that census tract.	
Is the battery storage dispatchable as a electrical grid resource? (DE335)	Choose yes or no. Dispatchable batteries are sources of electricity that can respond to grid demands and release energy at times of peak grid demand to improve grid stability and reduce the risk of brownouts or blackouts or simply reduce the need for peak energy generation and thus reduce marginal carbon emissions rates.	YES; NO
Does the project have battery storage? (DE338)		YES;NO
End Beneficiary 12-month Historical Utility Costs (DE364)	The utility cost is the all-in end beneficiary bill including fixed and variable charges of all types.	
End Beneficiary 12-month Historical Utility Energy Consumption (DE365)	This is the total energy (kWh) consumption that the end beneficiary is billed for	

End Beneficiary Net Cost of Solar (DE366)	The total (all-in) cost that the end beneficiary will pay for having solar (on a monthly or annual basis) n.b. If the end beneficiary costs and benefits are fixed for project, net them in this row, and then do not enter any values in the two rows below.	
End Beneficiary Allocated Solar Generation (DE367)	Data source could include contractor models/estimates or PVWatts (qualified industry standard solar model)	
End Beneficiary Solar Generation Compensation Rate (DE368)	Solar compensation rate can be set at at the known net metering compensation rate if known, however the default assumption will be that the solar is true compensated under a true net metering rate where the costs are offset 1-1 for all costs	
Utility Provider Name (DE639)	Enter the name of the utility provider for the end beneficiary, which can be done manually or using a prepopulated drop down based on the state selection.	TBD
Baseline Utility Rate (DE370)	The all in (fixed and variable charges) utility rate for the end beneficiary will either be pulled based on the state and utility selection or will be entered manually by the user if using an external source or data is not available in EIA	
Baseline Energy Consumption (DE371)	The baseline energy consumption for the end beneficiary will either be pulled based on the state and locality selected or will be entered manually by the user.	
Customer Net Cost of Solar (DE372)	The total (all-in) cost that the end beneficiary will pay for having solar (on a monthly or annual basis) n.b. If the end beneficiary costs and benefits are fixed for project, net them in this row, and then do not enter any values in the two rows below.	
Customers Allocated Generation (DE373)	Data source could include contractor models/estimates or PVWatts (qualified industry standard solar model)	
Solar Generation Compensation Rate (DE374)	Solar compensation rate can be set at at the known net metering compensation rate if known, however the default assumption will be that the solar is true compensated under a true net metering rate where the costs are offset 1-1 for all costs	

Utility bill escalation rate (DE375)	The rate at which utility energy costs are expected to rise year over year using either EIA Annual Energy outlook/Historical data, or a user set input that is defensible	
Solar degradation rate per year (DE376)	The rate at which the solar production of the system that services the end beneficiary will degrade year over year reducing the generation received by the end beneficiary	
End Beneficiary Year 1 Expected Allocated Solar Generation (DE377)	The amount of energy (kWh) generated from solar in year 1 of operation. This will be used to estimate future year energy if the user does not manually enter a yearly generation profile.	
Upfront End Beneficiary Solar Cost (DE378)	This would include loan principle, down payment, financial transaction costs, closing costs, etc. We assume that tax benefits are built into total project beneficiary costs, therefore tax incentives should be removed from beneficiary's upfront and annual costs	
Annual Solar Incentive(s) Received by End Beneficiary (DE379)	Incentives provided to the beneficiary on a regular schedule that is expected to be offered for multiple years up to the life of the project such as Renewable Energy Certificates (RECs) or program payments to the customer	
End Beneficiary Solar Generation Absolute Compensation (DE380)	Solar compensation rate can be set at at the known net metering compensation rate if known, however the default assumption will be that the solar is true compensated under a true net metering rate where the costs are offset 1-1 for all costs	
Household Savings Calculation Methodology (DE381)	Choose the picklist value that corresponds to the calculation method for the household utility bill savings.	Average Year Savings Model (amortized) - Representative Average Year Savings Model (amortized) - Empirical Single Year Savings Model - Representative Single Year Savings Model - Empirical
Region as defined by Avoided Emissions	Select the AVERT region from picklist. For more information on AVERT regions, see here:	CALIFORNIA REGION; CENTRAL; FLORIDA; MID-ATLANTIC; MIDWEST; CAROLINAS; NEW ENGLAND; NEW YORK; NORTHWEST; ROCKY

Generation Tool (AVERT) (DE382)	https://www.epa.gov/avert/avert-tutorial-getting-started-identify-your-avert-regions	MOUNTAINS; SOUTHEAST; SOUTHWEST; TENNESSEE; TEXAS; AK; HI; PR