

Instructions and Summary

Award Number: _____
Award Recipient: _____

Date of Submission: _____
Form submitted by: National Grid Service Co. Inc.
(May be award recipient or sub-recipient)

Please read the instructions on each worksheet tab before starting. If you have any questions, please ask your DOE contact!

1. If using this form for award application, negotiation, or budget revision, fill out the blank white cells in workbook tabs a. through j. with total project costs. If using this form for invoice submission, fill out tabs a. through j. with total costs for just the proposed invoice and fill out tab k. per the instructions on that tab.
2. Blue colored cells contain instructions, headers, or summary calculations and should not be modified. Only blank white cells should be populated.
3. Enter detailed support for the project costs identified for each Category line item within each worksheet tab to autopopulate the summary tab.
4. The total budget presented on tabs a. through i. must include both Federal (DOE) and Non-Federal (cost share) portions.
5. All costs incurred by the preparer's sub-recipients, vendors, and Federal Research and Development Centers (FFRDCs), should be entered only in section f. Contractual. All other sections are for the costs of the preparer only.
6. Ensure all entered costs are allowable, allocable, and reasonable in accordance with the administrative requirements prescribed in 2 CFR 200, and the applicable cost principles for each entity type: FAR Part 31 for For-Profit entities; and 2 CFR Part 200 Subpart E - Cost Principles for all other non-federal entities.
7. Add rows as needed throughout tabs a. through j. If rows are added, formulas/calculations may need to be adjusted by the preparer. Do not add rows to the Instructions and Summary tab. If your project contains more than five budget periods, consult your DOE contact before adding additional budget period rows or columns.
8. **ALL budget period cost categories are rounded to the nearest dollar.**

BURDEN DISCLOSURE STATEMENT

Public reporting burden for this collection of information is estimated to average 3 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Office of Information Resources Management Policy, Plans, and Oversight, AD-241-2 - GTN, Paperwork Reduction Project (1910-5162), U.S. Department of Energy 1000 Independence Avenue, S.W., Washington, DC 20585; and to the Office of Management and Budget, Paperwork Reduction Project (1910-5162), Washington, DC 20503.

SUMMARY OF BUDGET CATEGORY COSTS PROPOSED

The values in this summary table are from entries made in subsequent tabs, only blank white cells require data entry

Section A - Budget Summary								
		Federal	Cost Share			Total Costs	Cost Share %	Proposed Budget Period Dates
	Budget Period 1	\$6,619,771	\$40,571,000			\$47,190,771	85.97%	Example!!! 01/01/2014 - 12/31/2014
	Budget Period 2	\$13,592,284	\$23,100,000			\$36,692,284	62.96%	
	Budget Period 3	\$16,566,597	\$18,400,000			\$34,966,597	52.62%	
	Budget Period 4	\$8,286,699	\$5,300,000			\$13,586,699	39.01%	
	Budget Period 5	\$4,577,407	\$2,000,000			\$6,577,407	30.41%	
	Total	\$49,642,758	\$89,371,000			\$139,013,758	64.29%	
Section B - Budget Categories								
CATEGORY	Budget Period 1	Budget Period 2	Budget Period 3	Budget Period 4	Budget Period 5	Total Costs	% of Project	Comments (as needed)
a. Personnel	\$16,513,927	\$9,423,020	\$7,681,488	\$5,877,739	\$3,462,747	\$42,958,922	30.90%	
b. Fringe Benefits	\$0	\$0	\$0	\$0	\$0	\$0	0.00%	
c. Travel	\$0	\$0	\$0	\$0	\$0	\$0	0.00%	
d. Equipment	\$16,427,907	\$24,377,422	\$25,474,642	\$6,665,008	\$2,370,708	\$75,315,687	54.18%	
e. Supplies	\$0	\$0	\$0	\$0	\$0	\$0	0.00%	
f. Contractual								
Sub-recipient	\$0	\$0	\$0	\$0	\$0	\$0	0.00%	
Vendor	\$1,512,452	\$1,967,842	\$886,466	\$119,952	\$119,952	\$4,606,664	3.31%	
FFRDC	\$0	\$0	\$0	\$0	\$0	\$0	0.00%	
Total Contractual	\$1,512,452	\$1,967,842	\$886,466	\$119,952	\$119,952	\$4,606,664	3.31%	
g. Construction	\$12,112,485	\$0	\$0	\$0	\$0	\$12,112,485	8.71%	
h. Other Direct Costs	\$624,000	\$924,000	\$924,000	\$924,000	\$624,000	\$4,020,000	2.89%	
Total Direct Costs	\$47,190,771	\$36,692,284	\$34,966,597	\$13,586,699	\$6,577,407	\$139,013,758	100.00%	
i. Indirect Charges	\$0	\$0	\$0	\$0	\$0	\$0	0.00%	
Total Costs	\$47,190,771	\$36,692,284	\$34,966,597	\$13,586,699	\$6,577,407	\$139,013,758	100.00%	

Additional Explanation (as needed): Budget for Future Grid Proposal, National Grid Service Co. Inc.

Redacted to Prevent Disclosure of Confidential Information

Certain information in this spreadsheet has been redacted to protect confidential personnel and/or commercial information, relating to compensation rates for specific employment titles, and unit costs for competitively-sourced equipment, materials, and/or services. Public disclosure of the confidential information could result in an invasion of privacy, reveal and/or compromise the competitive position of third-party suppliers, and/or adversely impact National Grid's ability to obtain the most favorable pricing/terms in a future competitive solicitation. National Grid protects such information from public disclosure in the normal course of business.

a. Personnel**INSTRUCTIONS - PLEASE READ!!!**

1. List project costs solely for employees of the entity completing this form. All personnel costs for subrecipients and vendors must be included under f. Contractual.
2. All personnel should be identified by position title and not employee name. Enter the amount of time (e.g., hours or % of time) and the base pay rate and the total direct personnel compensation will automatically calculate. Rate basis (e.g., actual salary, labor distribution report, state civil service rates, etc.) must also be identified.
3. If loaded labor rates are utilized, a description of the costs the loaded rate is comprised of must be included in the Additional Explanation section below. DOE must review all components of the loaded labor rate for reasonableness and unallowable costs (e.g. fee or profit).
4. If a position and hours are attributed to multiple employees (e.g. Technician working 4000 hours) the number of employees for that position title must be identified.
5. Each budget period is rounded to the nearest dollar.

SOPO Task #	Position Title	Budget Period 1			Budget Period 2			Budget Period 3			Budget Period 4			Budget Period 5			Project Total Hours	Project Total Dollars	Rate Basis
		Time (Hrs)	Pay Rate (\$/Hr)	Total Budget Period 1	Time (Hrs)	Pay Rate (\$/Hr)	Total Budget Period 2	Time (Hrs)	Pay Rate (\$/Hr)	Total Budget Period 3	Time (Hrs)	Pay Rate (\$/Hr)	Total Budget Period 4	Time (Hrs)	Pay Rate (\$/Hr)	Total Budget Period 5			
1	Sr. Engineer (EXAMPLE!!!)	2000	\$85.00	\$170,000	200	\$50.00	\$10,000	200	\$50.00	\$10,000	200	\$50.00	\$10,000	200	\$50.00	\$10,000	2400	\$190,000	Actual Salary
2	Technicians (2)	4000	\$20.00	\$80,000	0	\$0.00	\$0	0	\$0.00	\$0	0	\$0.00	\$0	0	\$0.00	\$0	4000	\$80,000	Actual Salary
				\$0			\$0			\$0			\$0			\$0		\$0	
2.1	Product manager	(b) (4)					\$130,230			\$0			\$0			\$0		\$130,230	Loaded Salary
2.1	Eng Manager						\$133,927			\$0			\$0			\$0		\$133,927	Loaded Salary
2.1	Solution Architect						\$210,340			\$0			\$0			\$0		\$210,340	Loaded Salary
2.1	Business SME (DC&I)						\$179,117			\$0			\$0			\$0		\$179,117	Loaded Salary
2.1	Lead Engineer						\$241,562			\$0			\$0			\$0		\$241,562	Loaded Salary
2.1	Security Analyst						\$47,450			\$0			\$0			\$0		\$47,450	Loaded Salary
2.1	Integration Engineer						\$185,691			\$0			\$0			\$0		\$185,691	Loaded Salary
2.1	QA Engineer (QES)						\$189,799			\$0			\$0			\$0		\$189,799	Loaded Salary
2.1	CNI Engineer						\$241,562			\$0			\$0			\$0		\$241,562	Loaded Salary
							\$0			\$0			\$0			\$0		\$0	
2.3	DERMS Business SME (2)						\$268,676			\$184,491			\$9,501			\$0		\$462,668	Loaded Salary
2.3	Business Strategists (2)						\$268,676			\$184,491			\$9,501			\$0		\$462,668	Loaded Salary
2.3	CEI (2)						\$268,676			\$184,491			\$9,501			\$0		\$462,668	Loaded Salary
2.3	DG Analyst (2)						\$268,676			\$184,491			\$9,501			\$0		\$462,668	Loaded Salary
2.3	Business SME (DC&I) (2)						\$268,676			\$276,736			\$9,501			\$0		\$554,914	Loaded Salary
2.3	Change Analyst (2)						\$266,211			\$274,198			\$9,414			\$0		\$549,823	Loaded Salary
2.3	Product Managers (2)						\$390,690			\$402,410			\$13,816			\$0		\$806,916	Loaded Salary
2.3	UX Researcher (2)						\$194,729			\$300,856			\$51,647			\$0		\$547,231	Loaded Salary
2.3	UX Designer						\$191,442			\$295,778			\$50,775			\$0		\$537,995	Loaded Salary
2.3	Engineering Manager						\$267,854			\$275,890			\$71,042			\$0		\$614,786	Loaded Salary
2.3	Product Engineers						\$185,691			\$191,261			\$49,250			\$0		\$426,201	Loaded Salary
2.3	Data Engineers						\$185,691			\$191,261			\$49,250			\$0		\$426,201	Loaded Salary
2.3	Integration Engineers						\$185,691			\$191,261			\$49,250			\$0		\$426,201	Loaded Salary
2.3	Domain Architects						\$210,340			\$216,650			\$55,787			\$0		\$482,777	Loaded Salary
2.3	Solution Architects						\$210,340			\$216,650			\$55,787			\$0		\$482,777	Loaded Salary
2.3	Quality Engineers						\$185,691			\$191,261			\$49,250			\$0		\$426,201	Loaded Salary
2.3	Scrum Masters						\$232,524			\$239,500			\$123,342			\$0		\$595,366	Loaded Salary
2.3	Business Process/Training Engineer						\$177,474			\$182,798			\$94,141			\$0		\$454,414	Loaded Salary
				\$0			\$0			\$0			\$0			\$0		\$0	
2.4	Sr. DPAM Engineer (2)			\$584,350			\$0			\$0			\$0			\$0		\$584,350	Loaded Salary
2.4	DC&I Engineer (2)			\$510,731			\$0			\$0			\$0			\$0		\$510,731	Loaded Salary
2.4	Distribution Design (2)			\$247,521			\$0			\$0			\$0			\$0		\$247,521	Loaded Salary
2.4	O&M Technician (2)			\$426,299			\$0			\$0			\$0			\$0		\$426,299	Loaded Salary
2.4	Telecom Sr. Engineer			\$265,718			\$0			\$0			\$0			\$0		\$265,718	Loaded Salary
2.4	Relay Protection Engineer (6)			\$1,504,586			\$0			\$0			\$0			\$0		\$1,504,586	Loaded Salary
2.4	Overhead Lines Supervisor (15)			\$4,042,949			\$0			\$0			\$0			\$0		\$4,042,949	Loaded Salary
2.4	CNI Lead Engineer			\$111,602			\$0			\$0			\$0			\$0		\$111,602	Loaded Salary
2.4	Control Center Engineer			\$197,276			\$0			\$0			\$0			\$0		\$197,276	Loaded Salary
				\$0			\$0			\$0			\$0			\$0		\$0	
3.1	DERMS Business SME			\$3,493			\$19,187			\$26,699			\$0			\$0		\$49,378	Loaded Salary
3.1	Business Strategists			\$3,493			\$8,118			\$11,117			\$0			\$0		\$22,727	Loaded Salary
3.1	CEI			\$3,493			\$8,118			\$11,117			\$0			\$0		\$22,727	Loaded Salary
3.1	DG Analyst			\$3,493			\$8,118			\$11,117			\$0			\$0		\$22,727	Loaded Salary
3.1	Business SME (DC&I)			\$5,642			\$109,772			\$217,294			\$102,756			\$0		\$435,465	Loaded Salary

SOPO Task #	Position Title	Budget Period 1			Budget Period 2			Budget Period 3			Budget Period 4			Budget Period 5			Project Total Hours	Project Total Dollars	Rate Basis
		Time (Hrs)	Pay Rate (\$/Hr)	Total Budget Period 1	Time (Hrs)	Pay Rate (\$/Hr)	Total Budget Period 2	Time (Hrs)	Pay Rate (\$/Hr)	Total Budget Period 3	Time (Hrs)	Pay Rate (\$/Hr)	Total Budget Period 4	Time (Hrs)	Pay Rate (\$/Hr)	Total Budget Period 5			
3.1	Change Analyst	(b) (4)		\$710			\$1,645			\$2,165			\$0			\$0		\$4,520	Loaded Salary
3.1	Product Managers			\$5,079			\$168,744			\$172,563			\$149,421			\$0		\$495,807	Loaded Salary
3.1	UX Researcher			\$1,947			\$4,413			\$5,991			\$0			\$0		\$12,351	Loaded Salary
3.1	UX Designer			\$1,914			\$4,338			\$5,991			\$0			\$0		\$12,244	Loaded Salary
3.1	Engineering Manager			\$9,241			\$24,140			\$33,248			\$0			\$0		\$66,629	Loaded Salary
3.1	Product Engineers			\$11,141			\$33,471			\$45,999			\$0			\$0		\$90,611	Loaded Salary
3.1	Data Engineers			\$11,141			\$33,471			\$45,999			\$0			\$0		\$90,611	Loaded Salary
3.1	Integration Engineers			\$0			\$130,727			\$255,212			\$106,527			\$0		\$492,467	Loaded Salary
3.1	Domain Architects			\$4,102			\$9,533			\$13,054			\$0			\$0		\$26,688	Loaded Salary
3.1	Solution Architects			\$8,308			\$136,056			\$152,411			\$120,668			\$0		\$417,444	Loaded Salary
3.1	Quality Engineers			\$11,141			\$56,518			\$62,547			\$0			\$0		\$130,206	Loaded Salary
3.1	Scrum Masters			\$2,790			\$9,939			\$13,691			\$0			\$0		\$26,421	Loaded Salary
3.1	Business Process/Training Engineer (3)			\$0			\$0			\$0			\$430,720			\$430,758		\$861,478	Loaded Salary
3.1	Eng Manager			\$0			\$144,842			\$149,188			\$153,663			\$0		\$447,693	Loaded Salary
3.1	Lead Engineer (2)			\$0			\$261,249			\$538,174			\$277,159			\$0		\$1,076,582	Loaded Salary
3.1	security analyst			\$0			\$51,317			\$52,856			\$54,442			\$0		\$158,615	Loaded Salary
3.1	QA engineer (QES)			\$0			\$153,950			\$317,138			\$163,326			\$0		\$634,415	Loaded Salary
3.1	CNI Engineer (2)			\$0			\$261,249			\$538,174			\$277,159			\$0		\$1,076,582	Loaded Salary
				\$0			\$0			\$0			\$0			\$0		\$0	
3.2	DERMS Business SME			\$31,972			\$81,729			\$58,718			\$0			\$0		\$172,420	Loaded Salary
3.2	Business Strategists			\$31,972			\$34,408			\$24,418			\$0			\$0		\$90,798	Loaded Salary
3.2	CEI			\$31,972			\$34,408			\$24,418			\$0			\$0		\$90,798	Loaded Salary
3.2	DG Analyst			\$31,972			\$34,408			\$24,418			\$0			\$0		\$90,798	Loaded Salary
3.2	Business SME (DC&I)			\$51,138			\$54,978			\$39,145			\$0			\$0		\$145,262	Loaded Salary
3.2	Change Analyst			\$6,300			\$6,855			\$4,801			\$0			\$0		\$17,956	Loaded Salary
3.2	Product Managers			\$46,492			\$118,845			\$60,514			\$0			\$0		\$225,852	Loaded Salary
3.2	UX Researcher			\$17,428			\$18,653			\$13,222			\$0			\$0		\$49,303	Loaded Salary
3.2	UX Designer			\$17,134			\$18,437			\$13,100			\$0			\$0		\$48,671	Loaded Salary
3.2	Engineering Manager			\$84,374			\$102,907			\$73,173			\$0			\$0		\$260,454	Loaded Salary
3.2	Product Engineers			\$101,387			\$142,585			\$101,356			\$0			\$0		\$345,328	Loaded Salary
3.2	Data Engineers			\$101,387			\$142,585			\$101,356			\$0			\$0		\$345,328	Loaded Salary
3.2	Integration Engineers			\$0			\$129,197			\$106,576			\$0			\$0		\$235,773	Loaded Salary
3.2	Domain Architects			\$37,546			\$40,405			\$28,675			\$0			\$0		\$106,626	Loaded Salary
3.2	Solution Architects			\$75,091			\$94,893			\$77,544			\$0			\$0		\$247,528	Loaded Salary
3.2	Quality Engineers			\$0			\$98,117			\$36,445			\$0			\$0		\$134,562	Loaded Salary
3.2	Scrum Masters			\$24,880			\$42,152			\$30,219			\$0			\$0		\$97,251	Loaded Salary
3.2	Quality Engineers			\$101,387			\$142,585			\$101,356			\$0			\$0		\$345,328	Loaded Salary
3.2	Business Process/Training Engineer (2)			\$0			\$0			\$0			\$407,255			\$419,472		\$826,727	Loaded Salary
				\$0			\$0			\$0			\$0			\$0		\$0	
3.3	Program Manager			\$219,131			\$225,705			\$232,476			\$239,451			\$246,634		\$1,163,397	Loaded Salary
3.3	Data Engineer			\$95,762			\$98,635			\$50,797			\$52,321			\$26,997		\$324,511	Loaded Salary
3.3	Domain Architects			\$87,566			\$180,386			\$185,798			\$191,372			\$98,557		\$743,679	Loaded Salary
3.3	Data Scientists			\$112,844			\$48,429			\$99,763			\$102,756			\$105,839		\$469,632	Loaded Salary
3.3	Security Architects			\$19,929			\$51,317			\$52,856			\$54,442			\$112,151		\$290,695	Loaded Salary
3.3	Quality Engineers (2)			\$0			\$193,715			\$399,054			\$411,025			\$423,356		\$1,427,151	Loaded Salary
3.3	UX Research/Service Designers (2)			\$103,095			\$106,188			\$218,747			\$450,620			\$116,035		\$994,685	Loaded Salary
3.3	Solution Architects			\$174,477			\$179,711			\$185,102			\$190,655			\$196,375		\$926,321	Loaded Salary
3.3	Software Cloud Engineers (5)			\$422,733			\$435,415			\$1,121,195			\$1,154,831			\$475,790		\$3,609,965	Loaded Salary
				\$0			\$0			\$0			\$0			\$0		\$0	
3.0	Implementation Lead (2)			\$273,483			\$281,687			\$290,138			\$298,842			\$307,807		\$1,451,957	Loaded Salary
3.0	Grant Administrator			\$258,815			\$266,579			\$274,577			\$282,814			\$291,299		\$1,374,084	Loaded Salary
3.0	Benefits Analyst			\$188,073			\$193,715			\$199,527			\$205,513			\$211,678		\$998,507	Loaded Salary
				\$0			\$0			\$0			\$0			\$0		\$0	
				\$0			\$0			\$0			\$0			\$0		\$0	
	Total Personnel Costs	171176.88		\$16,513,927	92185		\$9,423,020	71888		\$7,681,488	54418		\$5,877,739	32064		\$3,462,747	421731	\$42,958,922	

Additional Explanation (as needed): rates include 67.55% loading factor which includes: 401K Match, Group Insurance, Healthcare, Post Employment FAS 112 Benefits, Post Retirement FAS 106 Benefits, Payroll Taxes, Pension, Variable pay Management Incentive Compensation, Variable Pay Non-Management Gainsharing, Workers Compensation.
Budget Period 1 hourly rates based on latest market rates for given role, inflation rate of 3% added to later years

b. Fringe Benefits

INSTRUCTIONS - PLEASE READ!!!

1. Fill out the table below by position title. If all employees receive the same fringe benefits, you can show "Total Personnel" in the Labor Type column instead of listing out all position titles.

2. The rates and how they are applied should not be averaged to get one fringe cost percentage. Complex calculations should be described/provided in the Additional Explanation section below.

3. The fringe benefit rates should be applied to all positions, regardless of whether those funds will be supported by Federal Share or Recipient Cost Share.

4. Each budget period is rounded to the nearest dollar.

Labor Type	Budget Period 1			Budget Period 2			Budget Period 3			Budget Period 4			Budget Period 5			Total Project
	Personnel Costs	Rate	Total	Personnel Costs	Rate	Total	Personnel Costs	Rate	Total	Personnel Costs	Rate	Total	Personnel Costs	Rate	Total	
EXAMPLE!!! Sr. Engineer	\$170,000	20%	\$34,000	\$10,000	20%	\$2,000	\$10,000	20%	\$2,000	\$10,000	20%	\$2,000	\$10,000	20%	\$2,000	\$38,000
			\$0			\$0			\$0			\$0			\$0	\$0
			\$0			\$0			\$0			\$0			\$0	\$0
			\$0			\$0			\$0			\$0			\$0	\$0
			\$0			\$0			\$0			\$0			\$0	\$0
			\$0			\$0			\$0			\$0			\$0	\$0
Total:	\$0		\$0	\$0		\$0	\$0		\$0	\$0		\$0	\$0		\$0	\$0

A federally approved fringe benefit rate agreement, or a proposed rate supported and agreed upon by DOE for estimating purposes is required at the time of award negotiation if reimbursement for fringe benefits is requested. Please check (X) one of the options below and provide the requested information if not previously submitted.

☐ A fringe benefit rate has been negotiated with, or approved by, a federal government agency. A copy of the latest rate agreement is/was included with the project application.*

☐ There is not a current federally approved rate agreement negotiated and available.**

*Unless the organization has submitted an indirect rate proposal which encompasses the fringe pool of costs, please provide the organization's benefit package and/or a list of the components/elements that comprise the fringe pool and the cost or percentage of each component/element allocated to the labor costs identified in the Budget Justification (Form EERE 335.1).

**When this option is checked, the entity preparing this form shall submit an indirect rate proposal in the format provided in the Sample Rate Proposal at <http://www1.eere.energy.gov/financing/resources.html>, or a format that provides the same level of information and which will support the rates being proposed for use in the performance of the proposed project.

Additional Explanation (as necessary): Please use this box (or an attachment) to list the elements that comprise your fringe benefits and how they are applied to your base (e.g. Personnel) to arrive at your fringe benefit rate. Fringe Benefits adder of 67.55% included in hourly rates on a Personnel tab, which includes: 401K Match, Group Insurance, Healthcare, Post Employment FAS 112 Benefits, Post Retirement FAS 106 Benefits, Payroll Taxes, Pension, Variable pay Management Incentive Compensation, Variable Pay Non-Management Gainsharing, Workers Compensation

c. Travel

INSTRUCTIONS - PLEASE READ!!!

1. Identify Foreign and Domestic Travel as separate items. Examples of Purpose of Travel are subrecipient site visits, DOE meetings, project mgmt. meetings, etc. Examples of Basis for Estimating Costs are past trips, travel quotes, GSA rates, etc.
2. All listed travel must be necessary for performance of the Statement of Project Objectives.
3. Federal travel regulations are contained within the applicable cost principles for all entity types. Travel costs should remain consistent with travel costs incurred by an organization during normal business operations as a result of the organizations written travel policy. In absence of a written travel policy, organizations must follow the regulations prescribed by the General Services Administration.
4. Each budget period is rounded to the nearest dollar.

SOPO Task #	Purpose of Travel	Depart From	Destination	No. of Days	No. of Travelers	Lodging per Traveler	Flight per Traveler	Vehicle per Traveler	Per Diem Per Traveler	Cost per Trip	Basis for Estimating Costs
	Domestic Travel	Budget Period 1									
1	EXAMPLE!!! Visit to PV manufacturer			2	2	\$250	\$500	\$100	\$160	\$2,020	Current GSA rates
										\$0	
										\$0	
										\$0	
										\$0	
	International Travel										
										\$0	
	Budget Period 1 Total									\$0	
	Domestic Travel	Budget Period 2									
										\$0	
										\$0	
										\$0	
										\$0	
	International Travel										
										\$0	
	Budget Period 2 Total									\$0	
	Domestic Travel	Budget Period 3									
										\$0	
										\$0	
										\$0	
										\$0	
	International Travel										
										\$0	
	Budget Period 3 Total									\$0	
	Domestic Travel	Budget Period 4									
										\$0	
										\$0	
										\$0	
										\$0	
	International Travel										
										\$0	
	Budget Period 4 Total									\$0	
	Domestic Travel	Budget Period 5									
										\$0	
										\$0	
										\$0	
										\$0	
	International Travel										
										\$0	
	Budget Period 5 Total									\$0	
	PROJECT TOTAL									\$0	

Additional Explanation (as needed):

Certain information in this spreadsheet has been redacted to protect confidential personnel and/or commercial information, relating to compensation rates for specific employment titles, and unit costs for competitively-sourced equipment, materials, and/or services. Public disclosure of the confidential information could result in an invasion of privacy, reveal and/or compromise the competitive position of third-party suppliers, and/or adversely impact National Grid's ability to obtain the most favorable pricing/terms in a future competitive solicitation. National Grid protects such information from public disclosure in the normal course of business.

d. Equipment

INSTRUCTIONS - PLEASE READ!!!

1. Equipment is generally defined as an item with an acquisition cost greater than \$5,000 and a useful life expectancy of more than one year. Please refer to the applicable Federal regulations in 2 CFR 200 for specific equipment definitions and treatment.
2. List all equipment below, providing a basis of cost (e.g. vendor quotes, catalog prices, prior invoices, etc.). Briefly justify items as they apply to the Statement of Project Objectives. If it is existing equipment, provide logical support for the estimated value shown.
3. During award negotiations, provide a vendor quote for all equipment items over \$50,000 in price. If the vendor quote is not an exact price match, provide an explanation in the additional explanation section below. If a vendor quote is not practical, such as for a piece of equipment that is purpose-built, first of its kind, or otherwise not available off the shelf, provide a detailed engineering estimate for how the cost estimate was derived.
4. Each budget period is rounded to the nearest dollar.

SOPO Task #	Equipment Item	Qty	Unit Cost	Total Cost	Basis of Cost	Justification of need	
Budget							
3,4,5	EXAMPLE!!! Thermal shock chamber	2	\$70,000	\$140,000	Vendor Quote - Attached	Reliability testing of PV modules- Task 4.3	
2.2	HES MDMS Solution Program Management Fees	1	(b) (4)		Based on prior costs	Continuation of HES MDMS buildout	FY25
2.2	HES Software Fees	1			Based on prior costs	Continuation of HES MDMS buildout	FY25
							FY25
2.3	Adv. STF Software License	1			Based on prior costs	Continuation of DERMS buildout	FY25
2.3	Grid Edge Control Software License	1			Based on prior costs	Continuation of DERMS buildout	FY25
2.3	Centralized DER Dispatch Engine Software License	1			Based on prior costs	Continuation of DERMS buildout	FY25
2.3	Adv. STF IT Infrastructure Hardware	1			Based on prior costs	Continuation of DERMS buildout	FY25
2.3	Grid Edge Control IT Infrastructure Hardware	1			Based on prior costs	Continuation of DERMS buildout	FY25
2.3	Centralized DER Dispatch Engine IT Infr. Hardware	1			Based on prior costs	Continuation of DERMS buildout	FY25
							FY25
3.1	Billing System Enhancements Phase 1				Based on analysis provided by consultant leveraging experience in similar implementations	Enhancements to billing system software, CSS to support FLISR-DER offering	FY25
3.1	Security	1			Per guidance from Security team	Security items like monitoring, security HW/ SW, Firewall, IAM	FY25
							FY25
3.2	Azure cloud infrastructure cost	1			Cost from other projects	Hosting infrastructure for DERMS (storage)	FY25
3.2	DERMS software development	1			Based on actual cost of similar DERMS projects	Configuration and setup for DERMS with vendor	FY25
3.2	DERMS license supporting storage	1			Based on actual cost of similar DERMS projects	License	FY25
3.2	DERMS vendor maintenance and support	1			Based on actual cost of similar DERMS projects	Maintain availability and performance of vendor solution	FY25
3.2	Orion Remote Terminal Units (RTU)	2			Cost from other projects	One for NY and one for MA implementation; supports operational data integration	FY25
3.2	Security	1			Per guidance from Security team	Security items like monitoring, security HW/ SW, Firewall, IAM	FY25
							FY25
3.3	Azure cloud infrastructure cost	1			Cost from other projects	Hosting infrastructure for IED SaaS	FY25
3.3	Substation Test Equipment	1			Online quotes	Needed for stimulus testing and vector generation	FY25
3.3	License	1			Based on VPR costs	License	FY25
3.3	Substation Infrastructure Including Networking Telco	1			Based on actual cost of similar projects	Remote software connectivity and installation.	FY25
3.3	SEL Equipment	1			Quotes	Includes SEL-487E, SEL-3530, SEL-2401, SEL-2740S, SEL-401	FY25
3.3	Security	1			Per guidance from Security team	Security items like monitoring, security HW/ SW, Firewall, IAM	FY25
							FY25
							FY25
							FY25
							FY25
							FY25
	Budget Period 1 Total			\$16,427,907			
Budget							
2.2	HES MDMS Solution Program Management Fees	1			Based on prior costs	Continuation of HES MDMS buildout	FY26
2.2	HES Software Fees	1			Based on prior costs	Continuation of HES MDMS buildout	FY26
							FY26
2.3	Adv. STF Software License	1			Based on prior costs	Continuation of DERMS buildout	FY26
2.3	Grid Edge Control Software License	1			Based on prior costs	Continuation of DERMS buildout	FY26
2.3	Centralized DER Dispatch Engine Software License	1			Based on prior costs	Continuation of DERMS buildout	FY26
2.3	Adv. STF IT Infrastructure Hardware	1			Based on prior costs	Continuation of DERMS buildout	FY26
2.3	Grid Edge Control IT Infrastructure Hardware	1			Based on prior costs	Continuation of DERMS buildout	FY26
2.3	Centralized DER Dispatch Engine IT Infr. Hardware	1			Based on prior costs	Continuation of DERMS buildout	FY26
							FY26
3.1	Billing System Enhancements Phase 2				Based on analysis provided by consultant leveraging experience in similar implementations	Enhancements to billing system software, CSS to support FLISR-DER offering	FY26
3.1	DER Registration Phase 1				Based on analysis provided by consultant leveraging experience in similar implementations	Enhancements to DER registration database to capture customer participation information in FLISR-DER offering	FY26
3.1	Smart DER Metering Applications Phase 1				Based on analysis provided by consultant leveraging experience in similar implementations	Buildout of functionality to enable connectivity between ADMS, MDMS and DER centralized dispatch engine	FY26
3.1	Incremental Communications Infrastructure Phase 1				Based on analysis provided by consultant leveraging experience in similar implementations	Buildout of connectivity between the centralized enterprise systems such as the DER centralized dispatch engine and DER at the grid edge	FY26
3.1	Infrastructure	1			Based on prior costs		FY26
3.1	Integration services	1			Based on prior costs	enhancement to load flow algorithm	FY26

SOPO Task #	Equipment Item	Qty	Unit Cost	Total Cost	Basis of Cost	Justification of need			
3.1	Algorithm Enhancements	1			Based on prior costs	license fee	FY26		
3.1	Security	1			Per guidance from Security team	Security items like monitoring, security HW/ SW, Firewall, IAM	FY26		
							FY26		
3.2	Azure cloud infrastructure cost	2			Cost from other projects	Hosting infrastructure for DERMS (storage and EV)	FY26		
3.2	DERMS license supporting EV charging	1			Based on actual cost of similar DERMS projects	License	FY26		
3.2	DERMS vendor maintenance and support	2			Based on actual cost of similar DERMS projects	Maintain availability and performance of vendor solution	FY26		
3.2	Orion Remote Terminal Units (RTU)	2			Cost from other projects	One for NY and one for MA implementation; supports operational data integration	FY26		
3.2	Security	1			Per guidance from Security team	Security items like monitoring, security HW/ SW, Firewall, IAM	FY26		
							FY26		
3.3	Azure cloud infrastructure cost	1			Cost from other projects	Hosting infrastructure for IED SaaS	FY26		
3.3	License	1			Based on VPR costs	License	FY26		
3.3	Substation Infrastructure Including Networking Telco	1			Based on actual cost of similar projects	Remote software connectivity and installation for the 1st substation	FY26		
3.3	SEL Equipment	1			Quotes	Includes SEL-487E, SEL-3530, SEL-2401, SEL-2740S, SEL-401	FY26		
3.3	Security	1			Per guidance from Security team	Security items like monitoring, security HW/ SW, Firewall, IAM	FY26		
							FY26		
							FY26		
							FY26		
Budget Period 2 Total						\$24,377,422			FY26
Budget									
					(b) (4)				FY27
2.2	HES MDMS Solution Program Management Fees	1	Based on prior costs	Continuation of HES MDMS buildout			FY27		
2.2	HES Software Fees	1	Based on prior costs	Continuation of HES MDMS buildout			FY27		
							FY27		
2.3	Adv. STF Software License	1	Based on prior costs	Continuation of DERMS buildout			FY27		
2.3	Grid Edge Control Software License	1	Based on prior costs	Continuation of DERMS buildout			FY27		
2.3	Centralized DER Dispatch Engine Software License	1	Based on prior costs	Continuation of DERMS buildout			FY27		
2.3	Adv. STF IT Infrastructure Hardware	1	Based on prior costs	Continuation of DERMS buildout			FY27		
2.3	Grid Edge Control IT Infrastructure Hardware	1	Based on prior costs	Continuation of DERMS buildout			FY27		
2.3	Centralized DER Dispatch Engine IT Infr. Hardware	1	Based on prior costs	Continuation of DERMS buildout			FY27		
							FY27		
3.1	Customer Portal Phase 1		Based on analysis provided by consultant leveraging experience in similar implementations	Buildout of middleware and front-end customer interface necessary to enable multi-way information flow between customer, ADMS, DER centralized dispatch engine			FY27		
3.1	Billing System Enhancements Phase 3		Based on analysis provided by consultant leveraging experience in similar implementations	Enhancements to billing system software, CSS to support FLISR-DER offering			FY27		
3.1	DER Registration Phase 2		Based on analysis provided by consultant	Enhancements to DER registration database to capture customer participation information in FLISR-			FY27		
3.1	Smart DER Metering Applications Phase 2		Based on analysis provided by consultant leveraging experience in similar implementations	Buildout of functionality to enable connectivity between ADMS, MDMS and DER centralized dispatch engine			FY27		
3.1	Incremental Communications Infrastructure Phase 2		Based on analysis provided by consultant leveraging experience in similar implementations	Buildout of connectivity between the centralized enterprise systems such as the DER centralized dispatch engine and DER at the grid edge			FY27		
3.1	Integration services	1	Based on prior costs				FY27		
3.1	Algorithm Enhancements	1	Based on prior costs	enhancement to load flow algorithm			FY27		
3.1	Middleware Licensing	1	Based on prior costs	license fee			FY27		
3.1	Security	1	Per guidance from Security team	Security items like monitoring, security HW/ SW, Firewall, IAM			FY27		
							FY27		
							FY27		
							FY27		
3.2	Azure cloud infrastructure cost	2	Cost from other projects	Hosting infrastructure for DERMS (storage and EV)			FY27		
3.2	DERMS vendor maintenance and support	2	Based on actual cost of similar DERMS projects	Maintain availability and performance of vendor solution			FY27		
3.2	Security	1	Per guidance from Security team	Security items like monitoring, security HW/ SW, Firewall, IAM			FY27		
							FY27		
3.3	Azure cloud infrastructure cost	1	Cost from other projects	Hosting infrastructure for IED SaaS and Cloud Edge			FY27		
3.3	License	1	Based on VPR costs	License			FY27		
3.3	Substation Infrastructure Including Networking Telco	1	Based on actual cost of similar projects	Remote software connectivity and installation for the 2nd substation			FY27		
3.3	SEL Equipment	1	Quotes	Includes SEL-487E, SEL-3530, SEL-2401, SEL-2740S, SEL-401			FY27		
3.3	Security	1	Per guidance from Security team	Security items like monitoring, security HW/ SW, Firewall, IAM			FY27		
							FY27		
							FY27		
							FY27		
							FY27		
							FY27		
							FY27		
Budget Period 3 Total				\$25,474,642					FY27
Budget									
							FY28		
2.2	HES Software Fees	1			Based on prior costs	Continuation of HES MDMS buildout	FY28		
							FY28		
3.1	Customer Portal Phase 2				Based on analysis provided by consultant leveraging experience in similar implementations	Buildout of middleware and front-end customer interface necessary to enable multi-way information flow between customer, ADMS, DER centralized dispatch engine	FY28		
3.1	Billing System Enhancements Phase 4				Based on analysis provided by consultant leveraging experience in similar implementations	Enhancements to billing system software, CSS to support FLISR-DER offering	FY28		
3.1	DER Registration Phase 3		Based on analysis provided by consultant leveraging experience in similar implementations	Enhancements to DER registration database to capture customer participation information in FLISR-DER offering	FY28				

[illegible]

e. Supplies

INSTRUCTIONS - PLEASE READ!!!

1. Supplies are generally defined as an item with an acquisition cost of \$5,000 or less and a useful life expectancy of less than one year. Supplies are generally consumed during the project performance. Please refer to the applicable Federal regulations in 2 CFR 200 for specific supplies definitions and treatment.

2. List all proposed supplies below, providing a basis of costs (e.g. vendor quotes, catalog prices, prior invoices, etc.). Briefly justify the need for the Supplies as they apply to the Statement of Project Objectives. Note that Supply items must be direct costs to the project at this budget category, and not duplicative of supply costs included in the indirect pool that is the basis of the indirect rate applied for this project.

3. Multiple supply items valued at \$5,000 or less used to assemble an equipment item with a value greater than \$5,000 with a useful life of more than one year should be included on the equipment tab. If supply items and costs are ambiguous in nature, contact your DOE representative for proper categorization.

4. Add rows as needed. If rows are added, formulas/calculations may need to be adjusted by the preparer.

5. Each budget period is rounded to the nearest dollar.

SOPO Task #	General Category of Supplies	Qty	Unit Cost	Total Cost	Basis of Cost	Justification of need
Budget Period 1						
4,6	EXAMPLE!!! Wireless DAS components	10	\$360.00	\$3,600	Catalog price	For Alpha prototype - Task 2.4
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
Budget Period 1 Total				\$0		
Budget Period 2						
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
Budget Period 2 Total				\$0		
Budget Period 3						
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
Budget Period 3 Total				\$0		
Budget Period 4						
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
Budget Period 4 Total				\$0		
Budget Period 5						
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
				\$0		
Budget Period 5 Total				\$0		
PROJECT TOTAL				\$0		

Additional Explanation (as needed):

f. Contractual

INSTRUCTIONS - PLEASE READ!!!

1. The entity completing this form must provide all costs related to subrecipients, vendors, and FFRDC partners in the applicable boxes below.
2. Subrecipients (partners, sub-awardees): Subrecipients shall submit a Budget Justification describing all project costs and calculations when their total proposed budget exceeds either (1) \$100,000 or (2) 50% of total award costs. These subrecipient forms may be completed by either the subrecipients themselves or by the preparer of this form. The budget totals on the subrecipient's forms must match the subrecipient entries below. A subrecipient is a legal entity to which a subaward is made, who has performance measured against whether the objectives of the Federal program are met, is responsible for programmatic decision making, must adhere to applicable Federal program compliance requirements, and uses the Federal funds to carry out a program of the organization. All characteristics may not be present and judgment must be used to determine subrecipient vs. vendor status.
3. Vendors (including contractors): List all vendors and contractors supplying commercial supplies or services used to support the project. For each Vendor cost with total project costs of \$250,000 or more, a Vendor quote must be provided. A vendor is a legal entity contracted to provide goods and services within normal business operations, provides similar goods or services to many different purchasers, operates in a competitive environment, provides goods or services that are ancillary to the operation of the Federal program, and is not subject to compliance requirements of the Federal program. All characteristics may not be present and judgment must be used to determine subrecipient vs. vendor status.
4. Federal Funded Research and Development Centers (FFRDCs): FFRDCs must submit a signed Field Work Proposal during award application. The award recipient may allow the FFRDC to provide this information directly to DOE, however project costs must also be provided below.
5. Each budget period is rounded to the nearest dollar.

SOPO Task #	Sub-Recipient Name/Organization	Purpose and Basis of Cost	Budget Period 1	Budget Period 2	Budget Period 3	Budget Period 4	Budget Period 5	Project Total
2.4	EXAMPLE!!! XYZ Corp.	Partner to develop optimal lens for Gen 2 product. Cost estimate based on personnel hours.	\$48,000	\$32,000	\$16,000			\$96,000
								\$0
								\$0
								\$0
								\$0
								\$0
								\$0
								\$0
								\$0
								\$0
		Sub-total	\$0	\$0	\$0	\$0	\$0	\$0

SOPO Task #	Vendor Name/Organization	Purpose and Basis of Cost	Budget Period 1	Budget Period 2	Budget Period 3	Budget Period 4	Budget Period 5	Project Total
6	EXAMPLE!!! ABC Corp.	Vendor for developing robotics to perform lens inspection. Estimate provided by vendor.	\$32,900	\$86,500				\$119,400
								\$0
								\$0
2.3	(b) (4)	External Consultant Labor for DERMS buildout, based on prior costs	(b) (4)					\$3,076,877
								\$0
3.0		Providing advisory services on roll-out of Future Grid 2.0						\$599,760
								\$0
3.2		ADMS Engineering SME consulting services, based on costs for similar work						\$268,656
3.2		DERMS Engineering SME consulting services, based on costs for similar work						\$268,656
3.3		Needed for stimulus testing and vector generation, based on going rates						\$392,714
								\$0
		Sub-total	\$1,512,452	\$1,967,842	\$886,466	\$119,952	\$119,952	\$4,606,664

SOPO Task #	FFRDC Name/Organization	Purpose and Basis of Cost	Budget Period 1	Budget Period 2	Budget Period 3	Budget Period 4	Budget Period 5	Project Total
								\$0
								\$0
		Sub-total	\$0	\$0	\$0	\$0	\$0	\$0

	Total Contractual	\$1,512,452	\$1,967,842	\$886,466	\$119,952	\$119,952	\$4,606,664
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Additional Explanation (as needed): National Grid is in the process of finalizing vendor quotes during the time of application submittal. Once funding is awarded, and vendor quotes are finalized, these will be provided to DOE

g. Construction

PLEASE READ!!!

1. Construction, for the purpose of budgeting, is defined as all types of work done on a particular building, including erecting, altering, or remodeling. Construction conducted by the award recipient is entered on this page. Any construction work that is performed by a vendor or subrecipient should be entered under f. Contractual.
2. List all proposed construction below, providing a basis of cost such as engineering estimates, prior construction, etc., and briefly justify its need as it applies to the Statement of Project Objectives.
3. Each budget period is rounded to the nearest dollar.

Overall description of construction activities: Example Only!!! - Build wind turbine platform

SOPO Task #	General Description	Cost	Basis of Cost	Justification of need
Budget Period 1				
3	EXAMPLE ONLY!!! Three days of excavation for platform site	\$28,000	Engineering estimate	Site must be prepared for construction of platform.
2.4	Reclosers	\$5,542,680	Based on prior construction and recent engineering estimates	Continuation of FLISR Deployment
2.4	Control Box Antenna Kit	\$4,031,040	Based on prior construction and recent engineering estimates	Continuation of FLISR Deployment
2.4	Lindsey Sensors	\$344,760	Based on prior construction and recent engineering estimates	Continuation of FLISR Deployment
2.4	Poles	\$428,298	Based on prior construction and recent engineering estimates	Continuation of FLISR Deployment
2.4	Wires	\$132,600	Based on prior construction and recent engineering estimates	Continuation of FLISR Deployment
2.4	Orion Boxes	\$61,200	Based on prior construction and recent engineering estimates	Continuation of FLISR Deployment
2.4	Stores Handling	\$1,571,907	Based on prior construction and recent engineering estimates	Continuation of FLISR Deployment
Budget Period 1 Total		\$12,112,485		
Budget Period 2				
Budget Period 2 Total		\$0		
Budget Period 3				
Budget Period 3 Total		\$0		
Budget Period 4				
Budget Period 4 Total		\$0		
Budget Period 5				
Budget Period 5 Total		\$0		
PROJECT TOTAL		\$12,112,485		

Additional Explanation (as needed):

h. Other Direct Costs

INSTRUCTIONS - PLEASE READ!!!

1. Other direct costs are direct cost items required for the project which do not fit clearly into other categories. These direct costs must not be included in the indirect costs (for which the indirect rate is being applied for this project). Examples are: tuition, printing costs, etc. which can be directly charged to the project and are not duplicated in indirect costs (overhead costs).
2. Basis of cost are items such as vendor quotes, prior purchases of similar or like items, published price list, etc.
3. Each budget period is rounded to the nearest dollar.

SOPO Task #	General Description and SOPO Task #	Cost	Basis of Cost	Justification of need
Budget				
5	EXAMPLE!!! Grad student tuition - tasks 1-3	\$16,000	Established UCD costs	Support of graduate students working on project
CBP	Community Engagement	\$100,000	based on costs from prior similar tasks	community surveys, focus groups, workshops
CBP	Workforce Development	\$474,000	based on costs from prior similar tasks	25% of total cost of EIA in MA, Support for NTC, SUNY EOC, HVCC in NY
CBP	Supplier Diversity	\$50,000	based on costs from prior similar tasks	Supplier vendor training/workshop programs
	Budget Period 1 Total	\$624,000		
	Budget Period 2			
CBP	Community Engagement	\$100,000	based on costs from prior similar tasks	community surveys, focus groups, workshops
CBP	Energy Manager	\$300,000	based on estimates of similar roles	1 FTE
CBP	Workforce Development	\$474,000	based on costs from prior similar tasks	25% of total cost of EIA in MA, Support for NTC, SUNY EOC, HVCC in NY
CBP	Supplier Diversity	\$50,000	based on costs from prior similar tasks	Supplier vendor training/workshop programs
	Budget Period 2 Total	\$924,000		
	Budget Period 3			
CBP	Community Engagement	\$100,000	based on costs from prior similar tasks	community surveys, focus groups, workshops
CBP	Energy Manager	\$300,000	based on estimates of similar roles	1 FTE
CBP	Workforce Development	\$474,000	based on costs from prior similar tasks	25% of total cost of EIA in MA, Support for NTC, SUNY EOC, HVCC in NY
CBP	Supplier Diversity	\$50,000	based on costs from prior similar tasks	Supplier vendor training/workshop programs
	Budget Period 3 Total	\$924,000		
	Budget Period 4			
CBP	Community Engagement	\$100,000	based on costs from prior similar tasks	community surveys, focus groups, workshops
CBP	Energy Manager	\$300,000	based on estimates of similar roles	1 FTE
CBP	Workforce Development	\$474,000	based on costs from prior similar tasks	25% of total cost of EIA in MA, Support for NTC, SUNY EOC, HVCC in NY
CBP	Supplier Diversity	\$50,000	based on costs from prior similar tasks	Supplier vendor training/workshop programs
	Budget Period 4 Total	\$924,000		
	Budget Period 5			
CBP	Community Engagement	\$100,000	based on costs from prior similar tasks	community surveys, focus groups, workshops
CBP	Workforce Development	\$474,000	based on costs from prior similar tasks	25% of total cost of EIA in MA, Support for NTC, SUNY EOC, HVCC in NY
CBP	Supplier Diversity	\$50,000	based on costs from prior similar tasks	Supplier vendor training/workshop programs
	Budget Period 5 Total	\$624,000		
	PROJECT TOTAL	\$4,020,000		

Additional Explanation (as needed):

i. Indirect Costs

INSTRUCTIONS - PLEASE READ!!!

1. Fill out the table below to indicate how your indirect costs are calculated. Use the box below to provide additional explanation regarding your indirect rate calculation.
2. The rates and how they are applied should not be averaged to get one indirect cost percentage. Complex calculations or rates that do not correspond to the below categories should be described/provided in the Additional Explanation section below. If questions exist, consult with your DOE contact before filling out this section.
3. The indirect rate should be applied to both the Federal Share and Recipient Cost Share.
4. Each budget period is rounded to the nearest dollar.

	Budget Period 1	Budget Period 2	Budget Period 3	Budget Period 4	Budget Period 5	Total	Explanation of BASE
Provide ONLY							
Overhead Rate	0.00%	0.00%	0.00%	0.00%	0.00%		
General & Administrative (G&A)	0.00%	0.00%	0.00%	0.00%	0.00%		
FCCM Rate, if applicable	0.00%	0.00%	0.00%	0.00%	0.00%		
OTHER Indirect Rate	0.00%	0.00%	0.00%	0.00%	0.00%		
Applicable):							
Overhead Costs						\$0	
G&A Costs						\$0	
applicable						\$0	
OTHER Indirect Costs						\$0	
requested:	\$0	\$0	\$0	\$0	\$0	\$0	

A federally approved indirect rate agreement, or rate proposed (supported and agreed upon by DOE for estimating purposes) is required if

_____ An indirect rate has been approved or negotiated with a federal government agency. A copy of the latest rate agreement is included with this application, and will be provided electronically to the Contracting Officer for this project.

_____ There is not a current, federally approved rate agreement negotiated and available*.

***When this option is checked, the entity preparing this form shall submit an indirect rate proposal in the format provided by your DOE contact, or a format that provides the same level of information and which will support the rates being proposed for use in performance of the proposed project. Additionally, any non-Federal entity that has never received a negotiated indirect cost rate, except for those non-Federal entities described in Appendix VII to Part 200—States and Local Government and Indian Tribe Indirect Cost Proposals, paragraph D.1.b, may elect to charge a de minimis rate of 10% of modified total direct costs (MTDC) which may be used indefinitely. As described in §200.403 Factors affecting allowability of costs, costs must be consistently charged as either indirect or direct costs, but may not be double charged or inconsistently charged as both. If chosen, this methodology once elected must be used consistently for all Federal awards until such time as a non-Federal entity chooses to negotiate for a rate, which the non-Federal entity may apply to do at any time.**

You must provide an explanation (below or in a separate attachment) and show how your indirect cost rate was applied to this budget in order to come

Additional Explanation (as needed): ***IMPORTANT:** Please use this box (or an attachment) to further explain how your total indirect costs were calculated. If the total indirect costs are a cumulative amount of more than one calculation or rate application, the explanation and calculations should identify all rates used, along with the base they were applied to (and how the base was derived), and a total for each (along with grand total).

General & Administrative - Calculated by taking the full cost by year and multiplying by 2%

Contingency Adder - Calculated by taking the total cost by year less cost share dollars and multiplying by 5%. Contingency added to IJJA Funded line items, as these are innovative technologies with final vendor quotes to be determined during RFPs which will be conducted after time of this application

1. A detailed presentation of the cash or cash value of all cost share proposed must be provided in the table below. All items in the chart below must be identified within the applicable cost category tabs a. through i. in addition to the detailed presentation of the cash or cash value of all cost share proposed provided in the table below. Identify the source organization & amount of each cost share item proposed in the award.
2. Cash Cost Share - encompasses all contributions to the project made by the recipient, subrecipient, or third party (an entity that does not have a role in performing the scope of work) for costs incurred and paid for during the project. This includes when an organization pays for personnel, supplies, equipment, etc. for their own company with organizational resources. If the item or service is reimbursed for, it is cash cost share. All cost share items must be necessary to the performance of the project. Any partial donation of goods or services is considered a discount and is not allowable.
3. In Kind Cost Share - encompasses all contributions to the project made by the recipient, subrecipient, or third party (an entity that does not have a role in performing the scope of work) where a value of the contribution can be readily determined, verified and justified but where no actual cash is transacted in securing the good or service comprising the contribution. In Kind cost share items include volunteer personnel hours, the donation of space or use of equipment, etc. The cash value and calculations thereof for all In Kind cost share items must be justified and explained in the Cost Share Item section below. All cost share items must be necessary to the performance of the project. If questions exist, consult your DOE contact before filling out In Kind cost share in this section. Vendors may not provide cost share. Any partial donation of goods or services is considered a discount and is not allowable.
4. Funds from other Federal sources MAY NOT be counted as cost share. This prohibition includes FFRDC sub-recipients. Non-Federal sources include any source not originally derived from Federal funds. Cost sharing commitment letters from subrecipients and third parties must be provided with the original application.
5. Fee or profit, including foregone fee or profit, **are not allowable** as project costs (including cost share) under any resulting award. The project may only incur those costs that are allowable and allocable to the project (including cost share) as determined in accordance with the applicable cost principles prescribed in FAR Part 31 for For-Profit entities and 2 CFR Part 200 Subpart E - Cost Principles for all other non-federal entities.
6. **NOTE:** A Recipient who elects to employ the 10% de minimis Indirect Cost rate **cannot claim the resulting indirect costs as a Cost Share contribution.**
7. **NOTE:** A Recipient **cannot claim "unrecovered indirect costs"** as a Cost Share contribution, **without prior approval.**
8. **Each budget period is rounded to the nearest dollar.**

Total Project Cost: \$139,013,758	Cost Share Percent of Award:	64.3%
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Additional Explanation (as needed):