

Aclara										
*As of 12/5/2023										
Replacement Process										
End of Life Meter Testing, Storage, and Disposal										
Network Collectors										
Meters (Including Modules)										
Maintenance and Support Project Deployment										
Training/Travel										
Cellular										
Project Credit										
Annual Costs										
15 Yr Cost	\$7,669,545.39									
Included Above:	_									
Meter base replacement for meter swap										
Pole replacements at DCU sites	-									
Meter swap using NISC appsuite										
Site survey and administrative labor										
5 year extended warranty on meters and DCUs										
				-			-	-	-	
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Meter Testing, Storage, and Disposal										
Network Collectors										
Meters (Including Modules) Maintenance and Support										
Project Deployment Training/Travel										
Cellular										
Project Credit/Patronage Capital										
Annual Costs										
15 Yr Cost										
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Meter base replacement for meter swap Pole replacements at approx. 10% of sites	_									
Meter swap using NISC appsuite	_									
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Administrative labor		1								
Administrative labor							<u> </u>			
Administrative labor										
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Replacement Process Meter Testing, Storage, and Disposal Network Collectors Meters (Including Modules) Maintenance and Support Project Deployment										
Replacement Process Meter Testing, Storage, and Disposal Network Collectors Meters (Including Modules) Maintenance and Support Project Deployment Training/Travel										
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*As of 12/5/2023	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Yea
Replacement Process	Teal 1	Teal 2	rear 3	16814	Teal 3	rear o	rear /	Teal 0	Teal 3	1681 10	Teal 11	1681 12	1681 13	1681 14	166
Meter Testing, Storage, and Disposal															
Towers (150'+)															
Notwork Collectors															
Meters (Including Modules)															
Meters (Including Modules) Maintenance and Support															
Meters (Including Modules) Maintenance and Support Project Deployment															
Meters (Including Modules) Maintenance and Support Project Deployment Training/Travel															
Meters (Including Modules) Maintenance and Support Project Deployment Training/Travel Shipping (Estimated)															
Meters (Including Modules) Maintenance and Support Project Deployment Training/Travel Shipping (Estimated) Cellular															
Meters (Including Modules) Maintenance and Support Project Deployment Training/Travel Shipping (Estimated) Cellular															
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		AMI Vendor Evaluation Matrix						
	<u>Requirement</u>	<u>Desired Level</u>	1-3-9 Definition	Rating		Shortlist Se	lection	
				(1-9)	Aclara			
	General							
1	15 Year Cost of System	Less than \$8M	1 (> \$9 Mil.); 3 (\$8 - \$9 Mil.); 9 (<\$8 Mil.)		9	1	1	3 3
2	Recurring Costs	Less than \$50,000 annually	1 (> \$100K); 3 (\$50K-\$100K); 9 (<\$50K)		3	1	1	3 3
			1 (8/5 outside of our business time); 3 (8/5 during our					
3	Technical Support Availability	24/7	business time); 9 (24/7)		9	9	9	3 3
4	Business Stability	Time in AMI Business	1 (<10 yrs); 3 (10-20 yrs); 9(>20 yrs)		9	9	9	9 9
5	Business Stability Cont.	Electric AMI revenue as % of overall revenue	1 (<20%); 3 (21-49%); 9(>50%)		9	3	9	1 3
		Able to communicate w/ NISC, Milsoft, and						
6	Integration Compatibility	Survalent	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
7	Flexibility for Different Meter Vendors	2 different meter vendors can be used	1 (No); 3 (Yes); 9 (Yes and exceeds)		1	3	1	3 3
	Hardware			1				
8	Meter and Module Lifecyle per Manufacturer	10 Years	1 (<10 years); 3 (10-12 years); 9 (>12 years)		9	9	9	9 9
9	Hardware Warranty	3 year	1 (<3yrs); 3 (3-5yrs); 9 (>5 years)		1	3	3	3 1
10	Meter Warranty	5 year	1 (<3yrs); 3 (3-5yrs); 9 (>5 years)		1	3	1	3 1
	,	·	1 (<30 day/15 min intervals); 3 (44 days/15 min intervals);					
11	Storage Capability at the Meter	30 days/15 min intervals	9 (>44 days/15 min intervals)		9	9	9	9 9
	,		, , , , , , , , , , , , , , , , , , , ,					
	Equipment Available and Capable of Downline Control							
12	Through DNP3 using ethernet comms.	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
					_		_	
13	Outdoor Lighting Control	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
14	Load Control devices avalaible	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
15	Meter option capable of cellular communication	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	1	1	1 1
	CL 320 single phase meters have remote disconnect							
16	capabilites	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	1	3	3 1
	Reliability/Accuracy			,				
17	Accuracy of Meter Data (All Parameters)	+/5 volts	1 (>.51); 3 (.5024); 9 (<0.239)		3	3	3	3 3
			1 (> 15 min intervals); 3 (15 min intervals); 9 (< 15 min					
18	Data Storage Intervals: kW, kWh, voltage, blinks, PF, KVA	15 min interval	intervals)		9	9	9	9 9
19	Average response time for on demand requests	15 sec minimum	1 (>15 sec); 3 (15-10 sec); 9 (<9.99 sec.)		3	3	3	3 3
20	Per-Hop Latency	1 sec minimum	1 (>1 sec); 3 (1-0.5 sec); 9 (< 0.5 sec)		9	3	3	1 3
21	Reliability of billing determinates every 72 hours	99%	1 (<99.5%); 3 (99.5%); 9 (>99.5%)		3	9	3	9 3
	Data/Communication							
22	Communicatiion speed	150 kbps+	(1) <150 kbps ; (3) 150-500 kbps ; (9) >500 kbps		3	9	9	3 9
23	Data Security/Cyber Security	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
	Auto-Detection of 0-usage (inoperable or out of spec							
24	meters)	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
25	Tamper Alerts	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
26	Temperature Alarms	Yes	1 (No) ; 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
27	Voltage high/low alarms	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
28	Voltage monitoring for PSC and CVR	Yes	1 (No) ; 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
29	Program Meter from office over the air	Yes	1 (No) ; 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
30	Update module firmware from office over the air	Yes	1 (No) ; 3 (Yes); 9 (Yes and exceeds)		3	3	3	3 3
31	Blink and outage counts	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)	1	3	3	3	3 3

32	Meter notifications alerts (hot socket, etc)	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3	3	3
33	System is capable of phase detection	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	1	1	3	3
34	TOU/TOD ability	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3	3	3
	Ability to read system at one time for load studies/line									
35	loss studies	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3	3	3
36	Prepay abilities at no additional cost	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	1	3	3
37	Net Meter abilities	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3	3	3
38	Load profile abilities	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3	3	3
39	Transformer loading abilities	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		1	1	3	9	3	3
40	Power Quality investigation abilities	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3	3	3
41	Data Size and Retention of 15 min intervals	5 years	1 (<2 yrs); 3 (2-5 yrs.); 9 (>5 yrs.)		3	1	1	1	3	3
42	Guaranteed Propagation Study	Yes	1 (No); 3 (Yes); 9 (Yes and exceeds)		3	3	3	3	3	3
				Total	166	156	154	150	148	148

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Meter Replacement (non-instrument)		
Meter Replacement and Test (instrument)		
Meter Base Changeout (Expected)		
Meter Base Changeout (Unexpected)		
Meter Testing, Storage, and Disposal		
Router Installation by JPEC		
Gateways, Routers, Collectors, Modems, Mounting Hardware		
Pole Replacements		
Towers		
Meters (Including Modules)		
Deployment Costs (Services, Project Management, etc.)		
Training		
Sales Tax		
Shipping		
JPEC Labor		
Project Credit		
Total	\$ 6,499,766.53	\$