

Instructions to lead Implementers for drafting the Technical Assistance Closure and Data Collection Report

Objective of the technical assistance (TA) Closure Report and Data Collection Report:

- To communicate publicly in one synthesis, document a summary of progress made and lessons learned under the technical assistance (TA) towards the anticipated impact (main template).
- Compile TA-specific information required for internal use in donor and UN reporting (annex 1).

Steps for completing the TA Closure report:

- 1. The lead TA implementer drafts the report at the end of the assignment as a final deliverable /product. The TA Closure report will capture all activities conducted under the TA hence it is expected that duplication of information will occur from earlier documents. Please copy and summarise relevant material from previous TA outputs/deliverables and the Response Plan, as relevant.
- 2. A CTCN Manager will review and revise the report before final approval by the CTCN Director.

Important note on public and internal use of the closure report:

Once approved by the CTCN Director, the TA Closure and Data Collection Report will be a public document available on the CTCN website. Annex 1 is for internal use only and will not be publicly available.

Closure and Data Collection Report for CTCN Technical Assistance

1. Basic information

Title of response plan	Technical assistance for the creation of an accredited laboratory for testing photovoltaic modules
Technical assistance reference number	2016000012
Country / countries	Algeria
NDE focal point and organisation	Bouchaib Samy, Renewable Energy Development Center (CDER)
Proponent focal point and organisation	Yassaa Noureddine, Renewable Energy Development Center (CDER)
Sector(s) addressed	Energy, Electricity
Technologies supported	Solar PV
Implementation period and total duration	Feb 2, 2018 – June 30, 2019, 17 months
Total budget for implementation	\$167,872
Designer of the response plan	Bethany Speer, National Renewable Energy Laboratory
Implementer of response plan	Dr. Peter Hacke, National Renewable Energy Laboratory

2. Summary of all activities, outputs and products that contribute to the expected impact of the technical assistance.

Description of delivered	Developed and updated detailed work plan of all activities
outputs and products as well as	associated with implementation of this technical assistance. As
the activities undertaken to	the project evolved, and progress was made in advance of and
achieve them. In doing so,	during the TA implementation period, the work plan was
review the log frame of the	during the 14 implementation period, the work plan was



original response plan and refer	revised to align with priorities and needs to assure highest value
to it as appropriate	add.
	Skype and web-based consultations throughout the TA
	implementation period, both to answer questions and collect
	data and other relevant information, and to assure the work
	plan aligned with on-going priorities based on progress and
	actual needs.
	On-site 4-day training and testing of solar PV panels, both at
	NREL and on site at CDER labs. 3 representatives from CDER
	participated in a 4-day training at NREL to observe and learn
	from NREL researchers on testing systems and protocols.
	Training included both "classroom" style presentations and
	actual hands-on testing and analysis of various grades and types of PV panels.
	Dr. Peter Hacke traveled to Algeria for a 4-day observation and
	training to observe and assess CDER laboratory set-up and
	testing procedures. Dr. Hacke provided hands-on
	demonstrations and assessment of the CDER laboratory and
	offered recommendations on test facility protocols, founded on
	international best practices, and equipment needed to achieve
	optimal testing environment.
	NREL donated three multi-crystalline Si modules and one high
	performance > 300 W module. These modules were shipped to
Partners organisations	CDER on June 5, 2019. None
Partners organisations	Algeria's Renewable Energy Development Center, the Government of
Beneficiaries	Algeria, Algeria's business/private sector, citizens of Algeria
	Structured interviews and continuous consultations with CDER
	engineers
	Hands-on training at NREL and CDER labs
	Assessment of CDER lab space and equipment, and analysis of
Methodologies applied to	international best practices and standards applied to tailored
produce outputs and products	recommendations to address equipment and laboratory set-up
	needs
	Analysis of international standards and best practices for testing
	protocols, and tailored recommendations provided to CDER
	As CDER made progress on their own during the time lapse that occurred
	between the response plan development and start of TA implementation, some minor adjustments were made to align the TA
	with actual needs. The most significant deviation was related to the "list
	of donor organizations that could potentially provide resources to fund
Deviations	equipment purchases and additional laboratory set-up needs". After a
	lengthy search for organizations that would be willing to donate or
	provide funds for to purchase testing equipment, including inquiring with development banks and organizations, e.g., African Development
	Bank, NREL was not able to identify organizations able to provide
	• =
	donations of equipment and/or funds. In lieu of this list, NREL donated



	module for use as module power standards for CDER's certification testing. These modules were shipped to CDER on June 5, 2019. CDER paid for customs fees, shipping costs were paid out of project funds: approved by Rajiv and Giulia.
Achieved or anticipated gender benefits from the TA	One woman was trained during the training/pilot run at CDER in Algeria. While gender mainstreaming was not addressed in the implementation and delivery of this TA, should the Algerian PV module manufacturing and testing markets grow, more jobs could be open to women applicants. Specific policies would need to be in place to assure positive impacts for gender equity. This TA did not address policies. Algeria may address the need for gender in their Renewable Energies and Energy Efficiency Program (PEREE) or revise the PEREE to include a gender mainstreaming provision.
Achieved or anticipated cobenefits from the TA	With improvements in laboratory protocols and increased capacity for PV module testing protocols, the Government of Algeria, through CDER, can establish a domestic certification authority that can ensure the control or PV panels sold in the Algerian market and used in PV plants. As such, the PV manufacturing market would increase, facilitating economic growth and job creation. Additionally, more solar PV projects could be developed – adding more job and economic opportunities, increase energy security and resilience, and as the PV panels and associated equipment, e.g., inverters and cables, will have undergone rigorous testing to assure standards are met, the PV systems will meet quality and reliability requirements. Lastly, productive use from solar PV systems would increase to support such industries as agriculture, and provide power to road lighting, water pumping, and other uses.
Anticipated follow up activities and next steps	CDER has built capacity and increased knowledge on PV equipment quality standards and testing protocols to measure quality. As such, CDER can move forward creating an equipment certification authority and improving testing protocols, laboratory design and setup, and purchasing equipment to implement quality control measures for PV modules and related components, and subsequent design and construction of large-scale solar PV plants. CDER has requested establishing an MOU between CDER and NREL for continued collaboration.

3. Lessons learnt

	Lessons learnt	Recommendations
Lessons learnt for this TA.	None to report	
Describe essential factors		
contributing to successful		
implementation, as well as		
specific challenges.		
Recommendations include		
considerations on what would		
need to be in place for		
increasing success of similar		
efforts (i.e. regulatory, legal,		
stakeholders, communication,		
etc.)		
Lessons learnt related to	Assuring quality of PV modules,	On-going trainings as system
climate technology transfer	both imported and	components and
climate technology transfer	manufactured domestically, will	technologies, such as PV



Describe opportunities, challenges and barriers for the use and deployment of the technology or technologies supported by the TA. The objective is to identify specific success factors for technology transfer	enable an uptake in solar PV projects, and assure project developers and investors that the life of the system is reliable to achieve ROI. Also, quality systems that are properly installed significantly reduce O&M costs. These factors are important to assuring successful technology transfer. The primary challenge was	modules, quickly evolve. Maintain awareness of improvements so quality standards are adjusted to match improvements.
Lessons learnt related the CTCN process for TA	associated with the time lapse between design of the response plan and implementation of the TA. CDER was able to make progress on their own during the interim so that some of the activities detailed in the response plan no longer aligned with CDER's needs and priorities. Therefore, adjustments in TA delivery were needed to assure the TA addressed recipient priorities.	agreement process so that TA implementation can begin sooner. 2. Construct financial agreements between CTCN and the TA providers so that some funds are on hand within the provider's organization to allow for faster response time. 3. Provide allowances for flexibility of TA provisions within the response plan to accommodate delays and other factors that create a need for change.

4. Illustration of the TA and photos

For communication purposes, please provide 2-4 Power Point slides with illustrations or charts showing the TA process, applied methodology, activities, outputs and achieved results. The illustrations must be copied into the TA Closure report but must also be delivered as power point files. Also, please provide at least five high-resolution pictures in jpg format, capturing technical assistance. The pictures should illustrate how the TA has impacted the lives of the beneficiaries in particular and the communities in general.

5. Information for TA Impact Description

The information in the table below will be used to produce the CTCN TA Impact Description. The TA Impact description is a 2-page summary document for communication purposes.

Challenge: Approx. 500 characters with spaces	For the PEREE to succeed in scaling up total
	domestic installed PV, Algeria needs to
	assure the quality & reliability of PV
	modules entering the domestic market &



CTCN Assistance: 2 to 4 bullet points. Approximately 450 characters with spaces Anticinated impact: 2 to 4 bullet points to summarise	proper O&M of PV plants. All modules introduced as part of PEREE must be approved by a certification laboratory in accordance with regulation. However, Algeria did not have an established domestic certification body with the capability to ensure quality control of PV modules sold on the Algerian market or used in PV plants. • Assess the status of the CDER lab at beginning of TA implementation • Provide recommendations to improve lab setup and layout, and equipment needs and specifications • Training on PV module & equipment testing processes at NREL • Provided four-day technical training and assisted with pilot run to conduct testing of PV modules at the CDER lab, including application of testing procedures taught during training at NREL • Evaluated pilot run
Anticipated impact: 2 to 4 bullet points to summarise anticipated impact. Approximately 250 characters with spaces. As a minimum, please include the impacts described in annex 1B as well as other relevant qualitative and quantitative impacts anticipated after completion of CTCN technical assistance.	 Support achieving NDC RE targets & GHG emission reduction goals Expand solar PV domestic markets Ability to conduct outdoor testing, maintenance & monitoring of PV power plants Contribute to PEREE to diversify Algerian energy mix & scale-up RE
Linkages and contribution to NDC: 2 to 4 bullet points. Approximately 350 characters with spaces	 Algerian INDC for 2015 aiming to reduce GHG emissions by 7-22% over period between 2021-2030. INDC target of reaching 27% of electricity generated by from RE by 2030. 60% of overall RE target generated by solar PV.
The narrative story: Approximately 1200 characters with spaces	Through this project, NREL technical assistance providers worked with engineers from CDER to apply protocols for PV module and related equipment testing and certification. The solar PV market in Algeria is growing with multiple PV in response to efforts initiated by the PEREE. CDER has been in the process of establishing Algeria's first in-country laboratory with the capabilities to test PV modules and associated equipment, such as inverters



and cables. They are also building knowledge and capacity to conduct quality control of equipment, solar PV plant construction, and control and maintenance in accordance with the International Electrotechnical Commission (IEC) 61215 standard. The technical assistance provided under this project focused on trainings and consultations to build the skills and expertise of CDER staff to conduct testing and analyze quality and reliability of PV modules entering the domestic and develop testing protocols and procedures aligned with IEC 61215. This technical assistance supported CDER with developing the necessary installation and technical capacity to contribute to the implementation of the PEREE and renewable energy electricity generation.

Contribution to SDGs: Always include contribution to SDG 13, and to the extent possible, please include contribution to 2 other SDGs, describing the contribution with a few sentences for each SDG concerned. A complete list of SDGs and their targets is available here:

https://sustainabledevelopment.un.org/partnership/register/

- SDG 7 Increased uptake of solar PV is aligned with SD7 to Ensure access to affordable, reliable, sustainable and modern energy for all
- SDG 8 With a functional certified PV module testing lab in place, operated by well-trained staff, Algeria could achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and laborintensive sectors.
- SDG 9 with an operational national certification lab to test Solar PV panels and associated equipment, as well as support evaluation power plant performance enables building a resilient infrastructure, e.g., locally/nationally manufactured PV components
- SDG 13 increase in renewables, and in this case through solar PV technologies with help to decrease the country's GHG emissions and support the NDC targets

Note: Please see examples of TA Impact Description in adaptation and mitigation at the following link:

https://www.ctc-n.org/sites/www.ctc-n.org/files/learning-reports/18106-

 $\underline{ctcnimpactdescriptionv02.pdf}$

https://www.ctc-n.org/sites/www.ctc-n.org/files/learning-reports/ta impact description 2014000002 gcai.doc



<u>Annex 1 - Standardised CTCN performance indicators for donor and UN reporting</u>

Please add quantitative values and qualitative descriptions for indicators relevant to the particular TA in the tables below. Non-relevant indicators should be left blank.

A. Activities and outputs supported by CTCN technical assistance

Please only fill in the table for activities and outputs conducted or produced directly by the CTCN assistance.

	tandardised performance indicators	Quantitative value	Qualitative description List the various elements corresponding to the quantitative value
Overvi	ew		
1.	Number of work days of the international expert team spent on the implementation of the technical assistance	75 (estimated)	Includes Senior Technical Lead, Project Lead, Project Assistant
2.	Number of work days of the locally-contracted expert team spent on the implementation of the technical assistance	N/A	There were no contracted personnel.
3.	Number of external communication and outreach activities conducted to showcase the assistance (news release, newsletters, articles on website, events presenting the results of the technical assistance, social media postings, and presentations at events outside the technical assistance etc.)	0	Please list the type of external communications here
Events	(other than trainings) held as part of the assistan	ice	
4.	Total number of events other than trainings (Aggregation of numbers in categories below)	Aggregation of numbers in categories below	
5.	Number of international and multi-country (at regional or sub-regional level) technology and knowledge sharing events	0	List title of events
6.	Number of participants in the events above	N/A	
7.		0	List title of events
8.	Number of participants in the events above	N/A	
9.	Number of public-private events related to technologies	0	List title of events
	Number of participants in the events above g and capacity building activities conducted during	N/A	
	Number of training sessions and capacity strengthening activities	2	 Practically oriented training of PV Testing procedures and Site Visit to NREL Technical Training and Pilot Run of PV Module Testing Procedures at CDER



·		
12. Number of people who received the training	3 5	Site training at CDER
a) Number of men		Site training at NDEL
a) Number of men	3	Site training at NREL Site training at CDER
b) Number of women	0	Site training at NREL
s, named of women	1	Site training at CDER
13. Total number of organisations trained	1	
a) Number of research organisations,	1	Renewable Energy Development
laboratories and universities		Center (CDER)
b) Number of private companies	0	List the name of organisations
	_	trained here
c) Number of cities and local government	0	List the name of organisations trained here
d) Number of communities	0	List the name of organisations trained here
e) Number of ministries	0	List the name of organisations trained here
f) Number of specialised governmental institutions	Same as (a)	Renewable Energy Development Center (CDER)
g) Number of non-profit organisations	0	List the name of organisations trained here
14. Number of participants that were significantly	N/A	NREL was not aware of the existence
or moderately satisfied after the training		of this form or data collection
(from CTCN training feedback form		requirement. Therefore, a training
		feedback form was not
		administered.
15. Number of participants that significantly or	N/A	NREL was not aware of the existence
moderately increased their capacities thanks		of this form or data collection
to the training (from CTCN training feedback		requirement. Therefore, a training
form).		feedback form was not
a) Number of rear	7	administered.
a) Number of men	7	
b) Number of women	=	assistance
Tools, technical documents and information material su		assistance
16. Total number of tools, technical documents s and information material supported by the	13	
assistance (excluding mission, progress and		
internal reports)		
a) Number of tools strengthened, revised or	1	PV System Logger Costs tracking
developed (including tools, methodology,	_	calculator
software, calculation systems, etc.)		Calculator
b) Number of technical documents	N/A	List the name of the documents
strengthened, revised or created	,/	2.55 the hame of the documents
c) Number of other information materials	12	Detailed work plan
strengthened, revised or created (For		NREL Module Chambers
example training and workshop reports,		Presentation
Power Points, exercise docs etc.)		
		Outdoor test facility lab room
		layout presentation
		UV pre-conditioning test
		presentation
		PV System Set-up memo
		PV System Diagrams
		, ,



			Electroluminescence equipment
			presentation
			Mechanical load test apparatus
			presentation
			Recommendations to support
			testing for the specific climatic
			conditions of Algeria
			presentation
			Module visual inspection
			procedures document
			Calculating PV Degradation rates
			using open-source software
			document
			Reference papers on
			manufacturing quality and
			sampling plan
Policies	, laws and regulations supported by the assistan		Samping Pian
l'olicies	, laws and regulations supported by the assistant		
17	Total number of policies, strategies, plans,	2	Executive Decree no 05-465 of
17.	laws, agreements or regulations supported by	_	2005
	the assistance		
			2008 Technical Regulation on
			Crystalline Silicon PV Modules
			for Terrestrial
a)	Number of policies, strategies, and plans	N/A	List the policies, strategies, plans,
	drafted addressing climate change adaptation		laws, agreements or regulations
b)	Number of policies, strategies, and plans	N/A	List the policies, strategies, plans,
	drafted addressing climate change mitigation	21/2	laws, agreements or regulations
c)	Number of documents developed to inform	N/A	List the documents
	other policies, strategies, and plans on climate change adaptation (sectoral strategies,		
	national development plans, etc.)		
d)	Number of documents developed to inform	N/A	List the documents
""	other policies, strategies, and plans on climate	14/7	List the documents
	change mitigation (sectoral strategies,		
	national development plans, etc.)		
e)	Number of laws, agreements, or regulations	N/A	List the laws, agreements and
	drafted addressing climate change adaptation		regulations
f)	Number of laws, agreements, or regulations	N/A	List the laws, agreements and
	drafted addressing climate change mitigation		regulations
g)	Number of documents developed to inform	N/A	List the documents
	laws, agreements, or regulations on climate		
	change adaptation		
h)	Number of documents developed to inform	N/A	List the documents
	laws, agreements, or regulations on climate		
In -421 - 12	change mitigation		
	onal strengthening supported by the assistance	N/A	List the institutional array assets
18.	Total number of institutional arrangements	N/A	List the institutional arrangements
10	supported to support climate change planning Number of organisations with increased	1	CDER
19.	awareness and knowledge among countries to	-	CDEIX
	awareness and knowledge among countries to		



	better own and drive national adaptation		
	planning processes		
	Number of organisations with increased	1	CDER
	awareness and knowledge among countries to		
	better own and drive national mitigation		
	planning processes		
Partnersh	nips and cooperation		
21. N	Number of private companies directly	N/A	Please list here the names of the
ϵ	engaged in the assistance (that partnered with		organisations cooperating
t	the proponent, the beneficiaries or the CTCN		
t	to implement the assistance) (Excluding the		
r	role of the CTCN and TA implementers)		
22. N	Number of South-South collaborations	N/A	Please list here the names of the
€	enabled during or through the assistance,		organisations cooperating
V	when stakeholders from other countries were		
i	nvolved in the assistance (Excluding the role		
	of the CTCN and TA implementers)		
	Number of North-South collaborations	N/A	Please list here the names of the
	enabled during or through the assistance,		organisations cooperating
	when stakeholders from other countries were		
	nvolved in the assistance (Excluding the role		
	of the CTCN and TA implementers)		
	Number of Triangular collaborations enabled	N/A	Please list here the names of the
	during or through the assistance, when		organisations cooperating
	stakeholders from other countries were		
	nvolved in the assistance (Excluding the role		
	of the CTCN and TA implementers)		
	planning/support processes		
	Number of National Adaptation Plans (NAPs)	N/A	List as appropriate
	developed as part of the technical assistance		
	Number of Nationally Appropriate Mitigation	N/A	List as appropriate
	Actions (NAMA) developed as part of the		
	technical assistance		
	Number of Technology Needs Assessment	N/A	List as appropriate
	s(TNAs) developed as part of the technical		
ā	assistance		

B. Impacts anticipated after completion of CTCN technical assistance: core indicators

Every technical assistance should contribute to at least one indicator below

CTCN core indicators	Quantitative	Unit	Methodolog	Assumptions	Expecte
	value		у	Indicate	d
			Explain the	assumptions	timeline
			method or	made during	Indicate
			process of	quantificatio	when
			verifying the	n	the
			indicator and		indicator
					and



			how data		value are
			was gathered		expected to be achieved
28. Total anticipated amount of funding/investmen t mobilised (in USD) as a result of the TA	N/A				
a) Anticipated amount of public funding mobilised (in USD) from national sources as a result of the TA	N/A				
b) Anticipated amount of public funding mobilized (in USD) from international and regional sources as a result of the TA	N/A				
c) Anticipated amount of private investment mobilised (in USD) from national sources as a result of the TA	N/A				
d) Anticipated amount of private investment mobilised (in USD) from international and regional sources as a result of the TA	N/A				
29. Anticipated number of beneficiaries as a result of a mitigation TA	Number is unknown, but the primary groups that will benefit are the government, project developers, investment and finance community, utilities, and the overall population.	Multipl e	The main benefit of the program is that CDER will be able to monitor the quality of modules coming into Nigeria. Poor quality modules would negatively impact the adoption of solar PV in Algeria.	Mitigating GHG emissions from the electricity sector by scaling up electricity generated from renewable energy sources	



30. Anticipated number of people with increased resilience as cobenefits as a result of the TA		(please describe the calculation process, original unit etc)		
31. Anticipated average the total GHG reductions in metric tons of CO _{2-e} , as a result of the TA	Unknown. No specific RE projects were implemente d under this TA. Therefore, there no calculations on GHG reductions resulting from this capacity building assistance — to establish PV module testing & certification protocols. The reductions are dependent on future installed projects for which the numbers are not known.	In order to get quantitative data, we would need to have data or a graph of the anticipated ramp rate of PV in Algeria and a search on how PV would displace CO2 in relationship.	(please also indicate the baseline year and when the indicated value is expected to be achieved)	
32. Anticipated average annual GHG reductions in metric tons of CO _{2-e} , as a result of the TA	Same as 31.		(please also indicate the baseline year and when the indicated value is expected to be achieved)	
33. Anticipated and projected greenhouse gas emissions reduced or avoided through 2030, in metric tons of CO _{2-e} , from	Same as 31.		(please also indicate the baseline year and when the indicated value is expected to be achieved)	



a danta dilavva			
adopted laws,			
policies, regulations,			
or technologies			
related to clean			
energy/sustainable			
landscapes as a			
result of the TA			

C. Outputs and impacts anticipated after completion of CTCN technical assistance: standardised performance indicators

CTCN standardised performance indicators 34. Anticipated number of	Quantitative value Insert the request value and unit	Content List the elements included in the number provided	Expected timeline Indicate when the indicator and value are expected to be achieved	Responsible institution Indicate the institution(s) that will play leading role(s) in enabling the indicators and anticipated values to be achieved
policies, strategies, plans, addressing climate change mitigation officially proposed, adopted, or implemented as a result of the TA 35. Anticipated number of	N/A			
policies, strategies, plans, addressing climate change adaptation officially proposed, adopted, or implemented as a result of the TA.				
36. Anticipated number of policies, strategies, plans, addressing climate change on both adaptation and mitigation officially proposed, adopted, or implemented as a result of the TA	N/A			
37. Anticipated number of laws or regulations addressing climate change mitigation officially proposed, adopted, or implemented as a result of the TA.	1	Implementa tion of PEREE requirement as defined in the Executive	1 year	CDER



		Decree no 05-	
		465 of 2005	
		and the	
		2008	
		Technical	
		Regulation on	
		crystalline	
		silicon PV	
		modules for	
		terrestrial	
		stating all PV	
		modules	
		introduced	
		into the	
		market be	
		approved by	
		a certification	
		laboratory. to	
		mitigate GHG	
		emissions	
		from the	
		electricity	
		sector by	
		scaling up	
		electricity	
		generated	
		from	
		renewable	
		energy	
		sources	
20 Anticipated number of laws	NI/A	3001063	
38. Anticipated number of laws or regulations addressing	N/A		
climate change adaptation			
officially proposed,			
adopted, or implemented			
adopted, or implemented as a result of the TA.			
	NI/A		
39. Anticipated number of laws or regulations addressing	N/A		
climate change both			
adaptation and mitigation			
officially proposed,			
adopted, or implemented			
adopted, or implemented as a result of the TA			
40. Anticipated number of	unknown		
	unknown		
public-private partnerships			
and collaboration created (Excluding the role of the			
_			
CTCN and TA implementers)	unlenaver		
41. Anticipated twinning	unknown		
arrangements created as a			
result of the TA			



42.	Anticipated number of	13,575 MW	60% of	2030	Algerian
	technology projects to		overall RE		Government
	support action on low		target under		
	emission and climate-		PEREE		
12	resilient development Anticipated number of	1			CDED 8 +ba
43.	strengthened National	1			CDER & the SKTM. SKTM is
	Systems of Innovation and				
	technology innovation				the Algerian
	centres in recipient country				company in
	,				charge of PV
					plant operations.
44.	Anticipated Clean Energy	22,000,000	Total RE	2030	Algerian
	Generation Capacity in kWh	kWh total	generation		Government
	supported by the TA	13,575,000	target is 27%		
		PV	under the		
			INDC or 33%		
			under the		
			PEREE. PV is		
			~60% of		
			overall RE		
			generation		
			mix PEREE is		
			a relevant on-		
			going parallel		
			activity.		
45.	Anticipated technology	13,575 MW	Solar PV	2030	Algerian
	types effectively deployed				Government
	in the country				
46.	Anticipated UNFCCC	N/A			
	processes implemented as a				
	result of the TA (NAMA,				
47	NAPA, NDC, etc.)	NI/A			
47.	Anticipated Technology	N/A			
	Needs Assessments (TNA) and technology Action Plans				
	(TAP) as a result of the TA				
48.	Anticipated cooperative	Unknown			
	research, development and	OTTACTO WIT			
	demonstration programmes				
	within and between				
	developed and developing				
	country Parties facilitated				
	as a result of the TA				
49.	Anticipated improved	N/A			
	climate change observation				
	systems and related				
	information management in				
	developing country Parties.				



CTCN evaluation

This section will be completed by the relevant CTCN Technology Manager.

- Evaluation of the timeliness of the TA implementation as measured against the timeline included in the response plan;
- Evaluation of TA quality as defined in the response plan;
- Overall performance of the Implementers;
- Overall engagement of the NDE and Proponent;
- Lessons learned on the CTCN process and steps taken by the CTCN to improve.