

Monitoring Report Sheet (Input Sheet) [For Verification]

Table 1: Parameters monitored *ex post*

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
Monitoring period	Monitoring point No.	Parameters	Description of data	Monitored Values	Units	Monitoring option	Source of data	Measurement methods and procedures	Monitoring frequency	Other comments
2016/01/01-03/31	N.A.	H _{i,p}	Energizing time of the project transformer <i>i</i> during the period <i>p</i>	-	hour/p	Option C	On-site measurements.	Counting the number of hours in the monitoring period <i>p</i> . It will be ensured that counting of the hours does not start before implementations and starting of the operation of all transformers under the project are completed. The date of completion of transformer implementation and the starting of the energizing of the transformers will be confirmed by reviewing the implementation completion report. Any incidence of repair/replacement of the project transformers will be reported to EVN SPC, and the record will be kept at EVN SPC. Energizing time (i.e. hours in the monitoring period) of each project transformer will be adjusted based on the repair/replacement record if necessary. Data monitored and required for verification and issuance be kept and archived electronically for two years after the final issuance of credits.	Once at the end of this monitoring period	Monitored values on the "MRS(input_separate)" sheet

Table 2: Project-specific parameters fixed *ex ante*

(a)	(b)	(c)	(d)	(e)	(f)
Parameters	Description of data	Estimated Values	Units	Source of data	Other comments
NLL _{RE,i,j,k}	No-load losses of the reference transformer <i>i</i> of capacity category <i>k</i> for the power company <i>j</i>	-	W	The latest standard for no-load loss required by the power companies, or the specification value of no-load losses set by the power companies	Values are input on "MPS(input_separate)" sheet
NLL _{P,i,j,k}	No-load losses of the project transformer <i>i</i> of capacity category <i>k</i> for the power company <i>j</i>	-	W	Manufacturer's performance test report measured at the time of pre-delivery inspection	Values are input on "MPS(input_separate)" sheet
Br _p	Blackout rate during the period <i>p</i>	0.0187	fraction	Data obtained from power companies	
UNC _i	Maximum allowable uncertainty for the no-load losses of the project transformer <i>i</i>	-	fraction	Manufacturer's performance test report measured at the time of pre-delivery inspection	Values are input on "MPS(input_separate)" sheet
EF _{grid}	CO ₂ emission factor of the grid	0.566	tCO ₂ /MWh	Ministry of Natural Resources and Environment (MONRE), Vietnamese DNA for CDM unless otherwise instructed by the Joint Committee	

Table3: *Ex-post* calculation of CO₂ emission reductions

Monitoring Period	CO ₂ emission reductions	Units
2016/01/01-03/31	151	tCO ₂ /p

[Monitoring option]

Option A	Based on public data which is measured by entities other than the project participants (Data used: publicly recognized data such as statistical data and
Option B	Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence such as invoices)
Option C	Based on the actual measurement using measuring equipments (Data used: measured values)

				Monitoring period	Parameters monitored <i>ex post</i>	Project-specific parameters fixed <i>ex ante</i>					<i>Ex-post</i> calculation of emissions		
Parameters	i	k	j	-	$H_{i,p}$	$NLL_{RE,i,j,k}$	$NLL_{PJ,i,j,k}$	Br_p	UNC_i	EF_{grid}	$RE_{i,p}$	$PE_{i,p}$	$ER_{i,p}$
Description of data	Identificati on number of the project transformer	Index which represents type of the project transformer	Identificati on number of the power company where the transformer <i>i</i> is installed	-	Energizing time of the project transformer <i>i</i> during the period <i>p</i>	No-load losses of the reference transformer <i>i</i> of capacity category <i>k</i> for the power company <i>j</i>	No-load losses of the project transformer <i>i</i> of capacity category <i>k</i> for the power company <i>j</i>	Blackout rate during the period <i>p</i>	Maximum allowable uncertainty for the no-load losses of the project transformer <i>i</i>	CO ₂ emission factor of the grid	Reference emissions by the transformer <i>i</i> during the period <i>p</i>	Project emissions by the transformer <i>i</i> during the period <i>p</i>	Emissions reductions by the transformer <i>i</i> during the period <i>p</i>
Units	-	-	-	-	hour/p	W	W	fraction	fraction	tCO ₂ /MWh	tCO ₂ /p	tCO ₂ /p	tCO ₂ /p
1	2	1	2016/01/01-03/31	2,184	67	22	0.0187	0.15	0.566	0.1	0.0	0.1	
2	2	1	2016/01/01-03/31	2,184	67	22	0.0187	0.15	0.566	0.1	0.0	0.1	
3	2	1	2016/01/01-03/31	2,184	67	22	0.0187	0.15	0.566	0.1	0.0	0.1	
4	2	1	2016/01/01-03/31	2,184	67	22	0.0187	0.15	0.566	0.1	0.0	0.1	
5	2	1	2016/01/01-03/31	2,184	67	22	0.0187	0.15	0.566	0.1	0.0	0.1	
6	2	1	2016/01/01-03/31	2,184	67	22	0.0187	0.15	0.566	0.1	0.0	0.1	
7	2	1	2016/01/01-03/31	2,184	67	22	0.0187	0.15	0.566	0.1	0.0	0.1	
8	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
9	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
10	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
11	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
12	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
13	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
14	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
15	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
16	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
17	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
18	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
19	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
20	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
21	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
22	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
23	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
24	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
25	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
26	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
27	3	1	2016/01/01-03/31	2,184	92	31	0.0187	0.15	0.566	0.1	0.0	0.1	
28	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
29	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
30	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
31	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
32	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
33	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
34	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
35	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
36	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
37	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
38	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
39	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
40	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
41	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
42	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
43	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
44	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
45	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
46	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
47	4	1	2016/01/01-03/31	2,184	108	36	0.0187	0.15	0.566	0.1	0.1	0.1	
48	10	1	2016/01/01-03/31	2,184	340	125	0.0187	0.15	0.566	0.4	0.2	0.2	
49	12	1	2016/01/01-03/31	2,184	433	165	0.0187	0.15	0.566	0.5	0.2	0.3	
50	12	1	2016/01/01-03/31	2,184	433	165	0.0187	0.15	0.566	0.5	0.2	0.3	
51	6	2	2016/01/01-03/31	2,184	192	64	0.0187	0.15	0.566	0.2	0.1	0.1	
52	6	2	2016/01/01-03/31	2,184	192	64	0.0187	0.15	0.566	0.2	0.1	0.1	

Monitoring Report Sheet (Calculation Process Sheet) [For Verification]

1. Calculations for emission reductions	Fuel type	Value	Units	Parameter
Emission reductions during the period p	N/A	151	tCO ₂ /p	ER _p
2. Calculations for reference emissions				
Reference emissions during the period p	N/A	248.7	tCO ₂ /p	RE _p
3. Calculations of the project emissions				
Project emissions during the period p	N/A	97.7	tCO ₂ /p	PE _p

[List of Default Values]

Blackout rate	0.0187	fraction
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