JCM Project Design Document Form

A. Project description

A.1. Title of the JCM project

Introduction of high-efficient wire stranding machines to the factory of YAZAKI EDS VIETNAM Co., LTD.

A.2. General description of project and applied technologies and/or measures

High-efficient wire stranding machines with energy-saving measures such as reinforced frames, friction reduction mechanism and application of smaller, lightweight parts and high-efficient motor are introduced to automotive wire production factory of YAZAKI EDS VIETNAM Co., LTD. located near Ho Chi Minh (HCM) City. Introduction of such high-efficient wire stranding machines lead to reduction of electricity consumption, hence reduction of GHG emissions. 32 wire stranding machines introduced in this project are made by KINREI MACHINERY CO., LTD.

A.3. Location of project, including coordinates

Country	The Socialist Republic of Viet Nam
Region/State/Province etc.:	N/A
City/Town/Community etc:	Lot C3-2, Block C3, Tan Phu Trung I.P, Tan Phu Trung Commune, Cu Chi District, Ho Chi Minh City
Latitude, longitude	10°55’13.1”N, 106°32’14.0”E

A.4. Name of project participants

The Socialist Republic of Viet Nam	YAZAKI EDS VIETNAM Co., LTD.
Japan	YAZAKI Parts Co., LTD. YAZAKI corporation

A.5. Duration

Starting date of project operation	01/11/2018
Expected operational lifetime of project	7years

A.6. Contribution from Japan

The proposed project was partially supported by the Ministry of the Environment, Japan (MOEJ) through the Financing Programme for JCM Model projects, which provided financial support of less than half of the initial investment for the projects in order to acquire JCM credits.

The Japanese project participant transfers the technology through conducting the training on operation of newly installed equipment through this project.

B. Application of an approved methodology(ies)

B.1. Selection of methodology(ies)

Selected approved methodology No.	VN_AM014
Version number	Ver01.0

B.2. Explanation of how the project meets eligibility criteria of the approved methodology

Eligibility criteria	Descriptions specified in the methodology	Project information
Criterion 1	Wire stranding machine(s) with energy-saving measures such as reinforced frames, friction reduction mechanism, energy efficient bow, and lightweight parts is newly installed or installed to replace existing wire stranding machine(s).	Wire stranding machines with a model number “DT 562” manufactured by KINREI MACHINERY CO., LTD. are introduced in the project. DT 562 is equipped with energy-saving measures such as reinforced frames, friction reduction mechanism, energy efficient bow, and lightweight parts. Wire stranding machines are newly installed in this project factory.
Criterion 2	Flange diameter of bobbin of a wire stranding machine installed in the project is 560mm.	Flange diameter of bobbin of all wire stranding machines (DT 562) installed in the project is 560mm.
Criterion 3	Total motor capacity of a project wire stranding machine installed in the project is equal to or less than 11.0 [kW].	Total motor capacity of a project wire stranding machine “DT 562” is equal to 11.0 [kW].

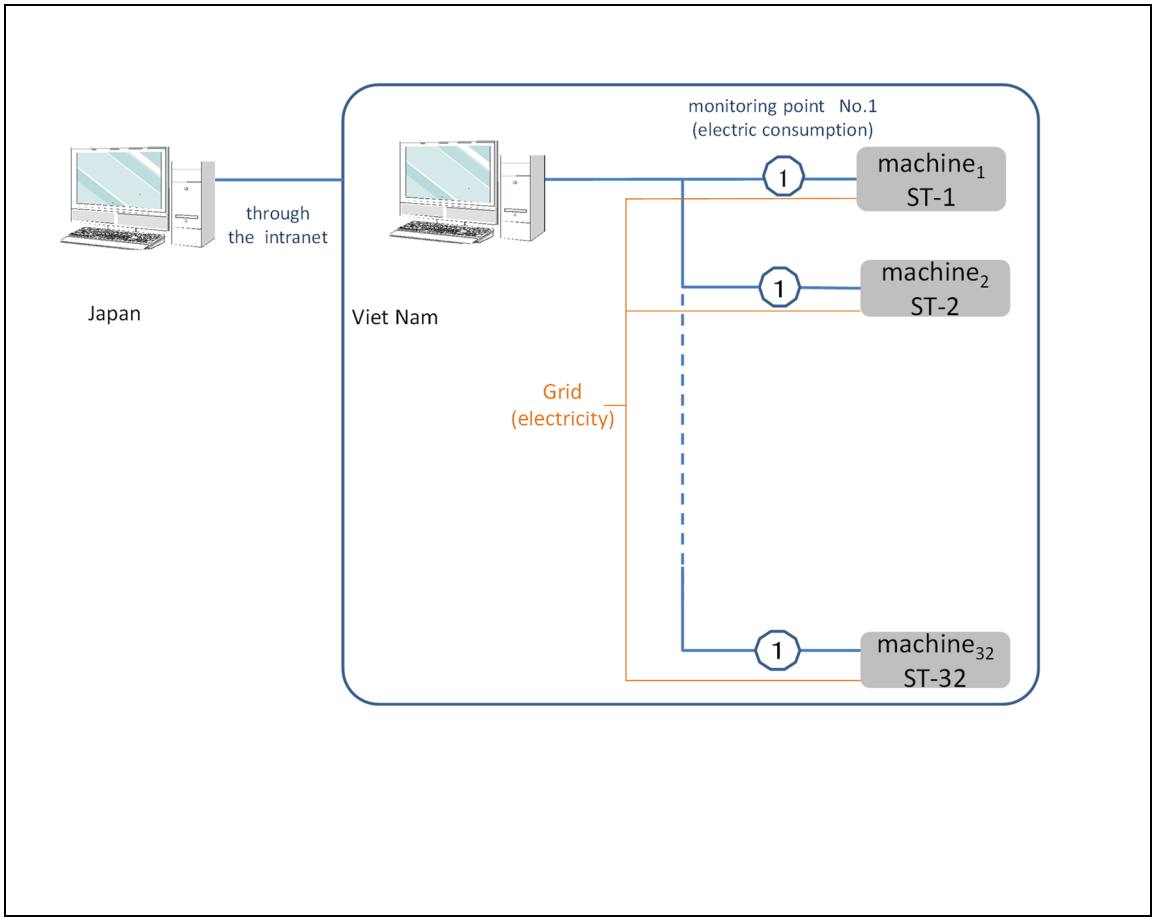
C. Calculation of emission reductions

C.1. All emission sources and their associated greenhouse gases relevant to the JCM project

Reference emissions	
Emission sources	GHG type
Electricity consumption by reference wire stranding machines	CO_2
Project emissions	

Emission sources	GHG type
Electricity consumption by project wire stranding machines	CO_2

C.2. Figure of all emission sources and monitoring points relevant to the JCM project



C.3. Estimated emissions reductions in each year

Year	Estimated Reference emissions (tCO_{2e})	Estimated Project Emissions (tCO_{2e})	Estimated Emission Reductions (tCO_{2e})
2013	-	-	-
2014	-	-	-
2015	-	-	-
2016	-	-	-
2017	-	-	-
2018	291.8	193.3	98
2019	1,751.0	1,159.6	591
2020	1,751.0	1,159.6	591
Total	3,793.8	2,512.5	1,280

(tCO_{2e})			

D. Environmental impact assessment	
Legal requirement of environmental impact assessment for the proposed project	No

E. Local stakeholder consultation

E.1. Solicitation of comments from local stakeholders

On 6th December 2017, a local stakeholder consultation has been conducted with participation of the local stakeholders listed in the table below.
The list of participants to the meeting has been consulted to the JC secretariat of Vietnamese side, and the local stakeholders to be invited have been fixed.
The schedule and participants of the meetings is provided below.

Date: 6th December 2017
Venue: YAZAKI EDS VIETNAM Co., LTD.
Lot C3-2, Block C3, Tan Phu Trung I.P, Tan Phu Trung Commune,
Cu Chi District, HCM City, Viet Nam
Time: 13:00-14:30

Agenda
1. Opening remarks
2. Introduction about YAZAKI EDS VIETNAM Co., LTD.
3. Introduction about JCM project
4. Introduction Technology and Facility
5. Q&A and collection of comments
6. Closing

[Local stakeholders]

No.	Organization	Position
1	YAZAKI EDS VIETNAM Co., LTD	Chief of Engineering Department
2	YAZAKI EDS VIETNAM Co., LTD	Management department Regular employee
3	YAZAKI EDS VIETNAM Co., LTD	Production department Manager

4	YAZAKI EDS VIETNAM Co., LTD	Staff

[Project participants]

Project participants: [Viet Nam] YAZAKI EDS VIETNAM Co., LTD.

[Japan] YAZAKI Parts Co., LTD.

[Japan] YAZAKI corporation

At each agenda item, a brief presentation was made by the project participants, and opinions of the stakeholders were solicited. A summary of the comments received and consideration of those comments are provided in Section E.2. below.

E.2. Summary of comments received and their consideration

Stakeholders	Comments received	Consideration of comments received
Chief of Engineering Department YAZAKI EDS VIETNAM Co., LTD	The project equipment has small vibration, and it is quiet during operation compared to the conventional types. Furthermore, it is working accurately.	Positive opinion was received. No further action is needed.
Management department Regular employee YAZAKI EDS VIETNAM Co., LTD	The project equipment is easy to operate and easy to understand its operation.	Positive opinion was received. No further action is needed.
Production department Manager YAZAKI EDS VIETNAM Co., LTD	By improving the bow in the project equipment, small sounds and less vibration can be realized. Compared to the wire standing machines made by other companies, the work efficiency is good because all operations of the project equipment can be done in one operation panel.	Positive opinion was received. No further action is needed.
Staff	The energy saving effect of the project	Positive opinion was received.

YAZAKI EDS VIETNAM Co., LTD	equipment is good for the environment and the business. Energy saving is realized by the bearing changed from a mechanical type to an oil type.	No further action is needed.

F. References
N/A

Reference lists to support descriptions in the PDD, if any.

Annex
N/A

Revision history of PDD		
Version	Date	Contents revised
01.0	31/10/2018	First Edition
02.0	20/01/2019	Second Edition