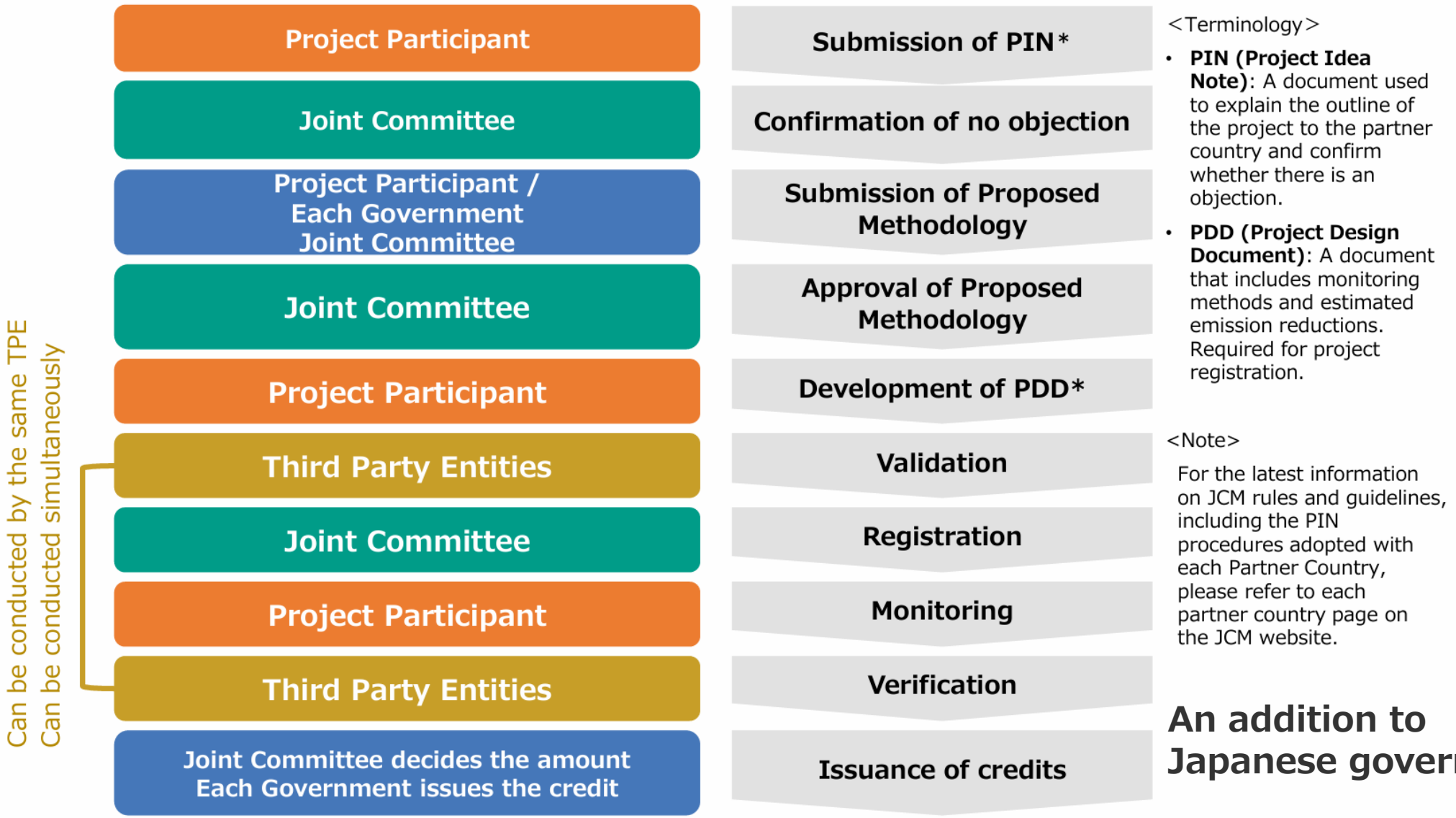
JCM Project Development points for the local partners

February 27, 2025
Seminar on JCM in Uzbekistan

Haruno TAKAGI, Researcher
Overseas Environmental Cooperation Center, Japan (OECC)

JCM Project Development



<Terminology>

- **PIN (Project Idea Note)**: A document used to explain the outline of the project to the partner country and confirm whether there is an objection.
- **PDD (Project Design Document)**: A document that includes monitoring methods and estimated emission reductions. Required for project registration.

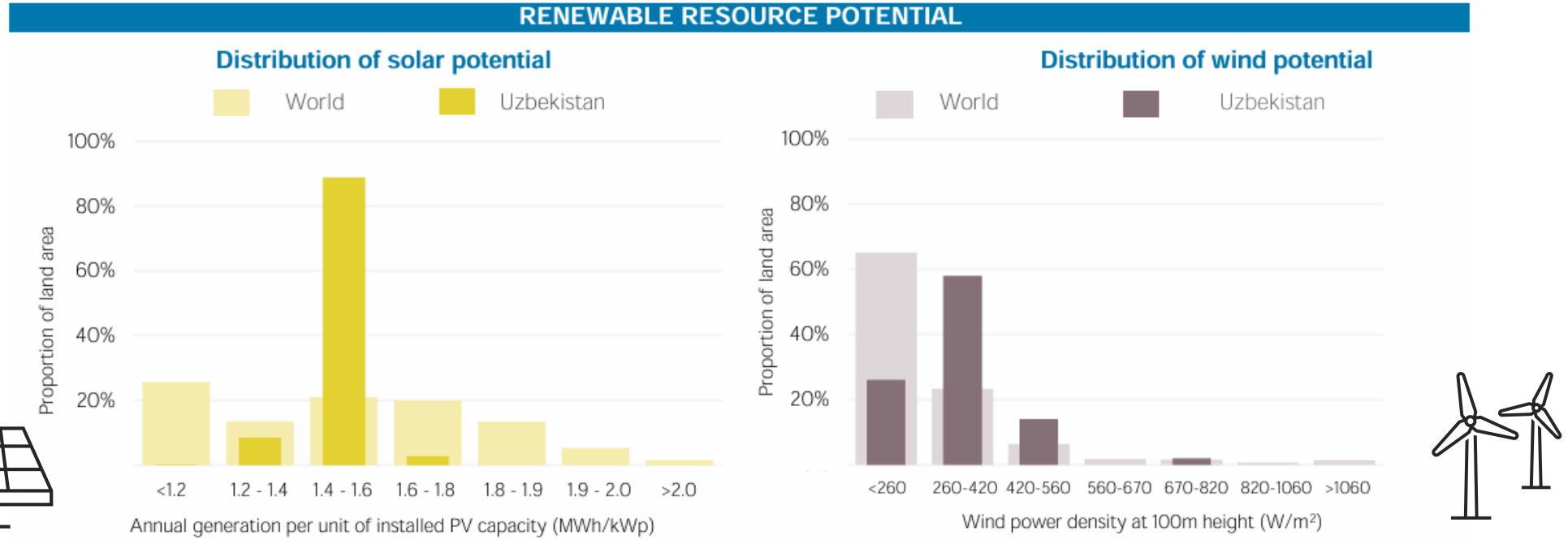
<Note>

For the latest information on JCM rules and guidelines, including the PIN procedures adopted with each Partner Country, please refer to each partner country page on the JCM website.

An addition to Japanese government document

Potential Area for JCM project in Uzbekistan (Solar & Wind & Heat Pump & Energy Efficiency)

- Nationally Determined Contributions (NDC) implementation plans: increasing the share of renewable energy in power generation to 25%, through construction of solar, wind



Energy profile, Uzbekistan, IRENA (Uzbekistan_Asia_RE_SP.pdf)

- ✓ **Energy Efficiency case studies will be presented later in this presentation.**
- ✓ **After this presentation, Japanese companies will make presentations on potential Solar & Wind power projects & Heat pump technology.**

Introduction to Potential Area in Uzbekistan & Case Studies

Since around 2013 – the early days of JCM – the OECC has been promoting JCM and supporting the development of projects commissioned by the Ministry of the Environment, Japan (MOEJ).

Introduction to Potential Area in Uzbekistan & Case Studies

Selected Year	Partner country	Representative Participants	Project Title	Expected GHG Emission Reductions (tCO2/year)
2023	Indonesia	AGC Inc.	Improvement of Combustion Method and Furnace Shapes in Flat Glass Production Melting Furnace	5,747
2023	Mongolia	Overseas Environmental Cooperation Center, Japan	Demonstration project for green hydrogen production by wind power generation and heat supply using hydrogen boiler	2,400
2023	Sri Lanka	Shibata Corporation Co., Ltd.	13.5MW Solar Power Project in Kebithigollewa, North Central Province	6,511
2022	New partner candidate	Confidential	Confidential	About 60,000
2021	Indonesia	Sumitomo Forestry Co., Ltd.	Introduction of 3.3MW Rooftop Solar Power System in Woodworking Factories	2,396
2020	Vietnam	Idemitsu Kosan Co., Ltd.	Introduction of 2MW Solar Power System for Pellet Factory	945
2019	Philippines	ITOCHU Corporation	Biogas Power Generation and Fuel Conversion Project in Pineapple Canneries	52,156
2019	Mongolia	Saisan Co., Ltd.	Fuel Conversion by Introduction of LPG Boilers to Beverage Factory	5,781
2019	Philippines	Tokyo Century Corporation	7.3MW Solar Power Project at Mandalay Airport and Yangon City	3,276
2018	Myanmar	Global Engineering Co., Ltd.	Introduction of 8.8MW Power Generation System by Waste Heat Recovery for Cement Plant	19,241
2018	Mongolia	Ministry of Energy, Mongolia (ADB JFJCM)	Upscaling Renewable Energy Sector Project	6,423
2017	Mongolia	Sharp Corporation	Introduction of a 20MW Solar Power System in Darkhan City	22,927
2017	Indonesia	Tokyo Century Corporation	Introduction of Absorption Chiller to Chemical Factory	1,084
2017	Philippines	Tokyo Century Corporation	Installation of 1.2MW Rooftop Solar Power System in Refrigerating Warehouse	838
2017	Mongolia	Sharp Corporation	Introduction of 15MW Solar Power System near New Airport	18,438
2017	Philippines	Tokyo Century Corporation	Introduction of 1.53MW Rooftop Solar Power System in Auto Parts Factories	1,124
2017	Laos	Yuko Keiso Co., Ltd.	Introduction of Amorphous High Efficiency Transformers in Power Grid	2,099
2017	Vietnam	Yuko Keiso Co., Ltd.	Introduction of Amorphous High Efficiency Transformers in Southern and Central Power Grids II	1,469
2016	Myanmar	Ryobi Holdings Co., Ltd.	Introduction of Energy Efficient Refrigeration System in Logistics Center	125
2016	Vietnam	Yuko Keiso Co., Ltd.	Introduction of Amorphous High Efficiency Transformers in Northern, Central and Southern Power Grids	2,098
2016	Thailand	Finetech Co., Ltd.	Introduction of 1.5MW Rooftop Solar Power System and Advanced EMS for Power Supply in Paint Factory	1,344
2016	Cambodia	Asian Gateway Corporation	Introduction of 0.8MW Solar Power Generation in International School	772
2016	Mongolia	Farmdo Co., Ltd.	Installation of 8.3MW Solar Power Plant in Ulaanbaatar suburb Farm	10,580
2015	Vietnam	Yuko Keiso Co., Ltd.	Introduction of Amorphous High Efficiency Transformers in Southern and Central Power Grids	4,360
2015	Bangladesh	Toyota Tsusho Corporation	Installation of High Efficiency Loom at Weaving Factory	1,518
2015	Mongolia	Sharp Corporation	10MW Solar Power Project in Darkhan City	14,746
2015	Mongolia	Farmdo Co., Ltd.	Installation of 2.1MW Solar Power Plant for Power Supply in Ulaanbaatar suburb	2,707
2015	Bangladesh	YKK Corporation	Introduction of PV-diesel Hybrid System at Fastening Manufacturing Plant	265

Case2

Case1

Case1: Installation of High Efficiency Loom at Weaving Factory

Energy Efficiency Case

Host Country : Bangladesh
Selected Year: 2015

GHG reduction: 437 tCO2-eq/year
- Reference CO2 emissions: 1,943.1 tCO2/year
-Project CO2 emissions: 1,505.9 tCO2/year

1.8 times higher productivity
15% higher energy efficiency

53% energy efficient in terms of unit per area of fabric produced

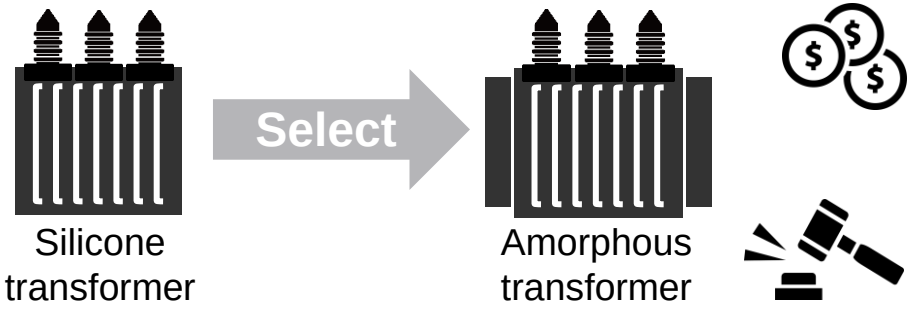
Air Jet Loom

JCM development Points for local partners

- ✓ Compatibility between improve business profitability and reduce GHG emissions
- ✓ Collaboration with Japanese companies

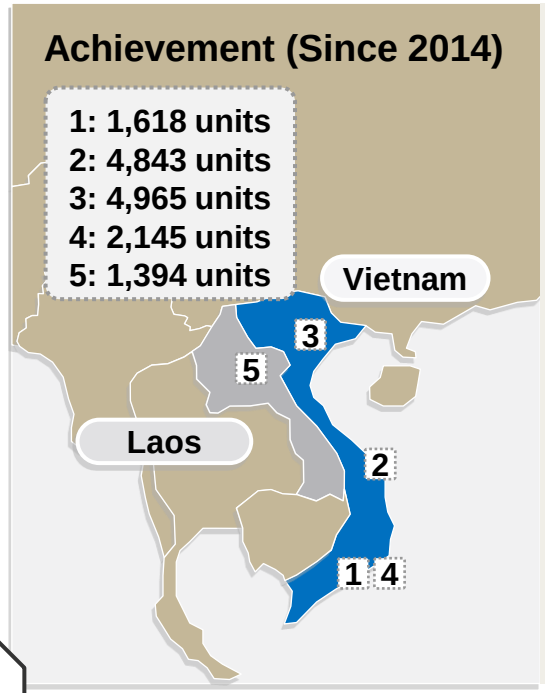
Case2: Transferring & replicating low-carbon technologies

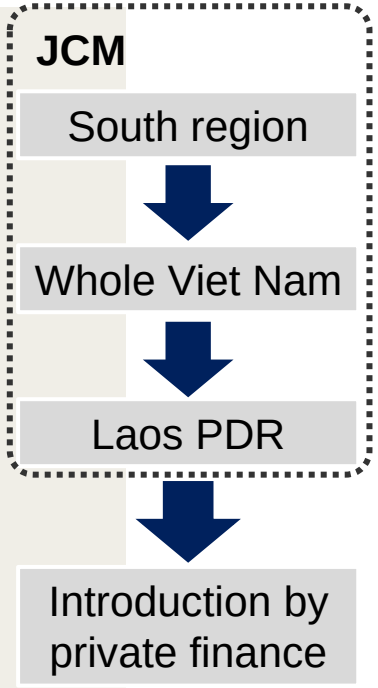
Energy Efficiency Case



- Transmission loss reduction & Stable supply
- GHG reductions

Power loss in Viet Nam Electricity's systems has reduced from 7.24% in 2017 to **6.83% in 2018** and achieved the loss rate target of 7.2%. *EVN news





JCM development Points for local partners

- OECC formed a scheme where only iron cores were exported from Japan and transformers were manufactured locally, which led to local competition and price reduction, thus taking away subsidies.
- As a top runner technology, Amorphous transformers became a procurement criterion for EVNs (VIETNAM ELECTRICITY).

Thank you!!
Please feel free to contact us.

Overseas Environmental Cooperation Center (OECC)
Email: jcm@oecc.or.jp
WEB: https://www.oecc.or.jp/en/