

A light blue, stylized world map is visible in the background, centered behind the main text. The map shows the outlines of continents and is composed of many small, irregular shapes.

Japan International Cooperation Agency

**JICA's Support Towards
Net Zero Society in India**

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2. JICA's Support towards Net Zero Society



Urban Transportation

- ✓ JICA has supported approx. **680 km** of metro rail network across India (**Delhi, Mumbai, Ahmedabad, Kolkata, Chennai**).



- ✓ Metro's CO2 emission is **only 1/7** of automobile

Energy Efficiency



- ✓ Economic Benefits and Emission Mitigation

- ✓ Introducing "Energy Saving Equipment List"
- ✓ JICA has supported installment of **Energy Saving Equipment for SMEs** through SIDBI (Small Industries Development) in 3 phases

- ✓ JICA has promoted **7.8 GW renewable projects** by two-step-finance through IREDA (Indian Renewable Energy Development Agency Limited) and IIFCL (India Infrastructure Finance Company Limited)

- ✓ **Battery** project in **Andaman Nicobar**

Renewable Energy



- ✓ JICA has contributed enhancement of Transmission and Distribution line in **Hyderabad, Andhra Pradesh, Haryana, Bangalore, Madhya Pradesh, Maharashtra, Tamil Nadu and West Bengal**



- ✓ **Reduction T/D loss** leads less power generation

Transmission / Distribution

3. JICA's New Initiative / Case 1



JICA supported private company with direct private debt finance to Tata Cleantech

Outline

This Project will improve financial access of renewable energy projects, energy saving projects, and electric vehicle (EV) projects by providing a long-term financing to Tata Cleantech Capital Limited ("TCCL") in India, thereby contributing to sustainable economic growth and climate change mitigation in the country.

Impact & Importance

1. Support for the reduction of greenhouse gas emissions

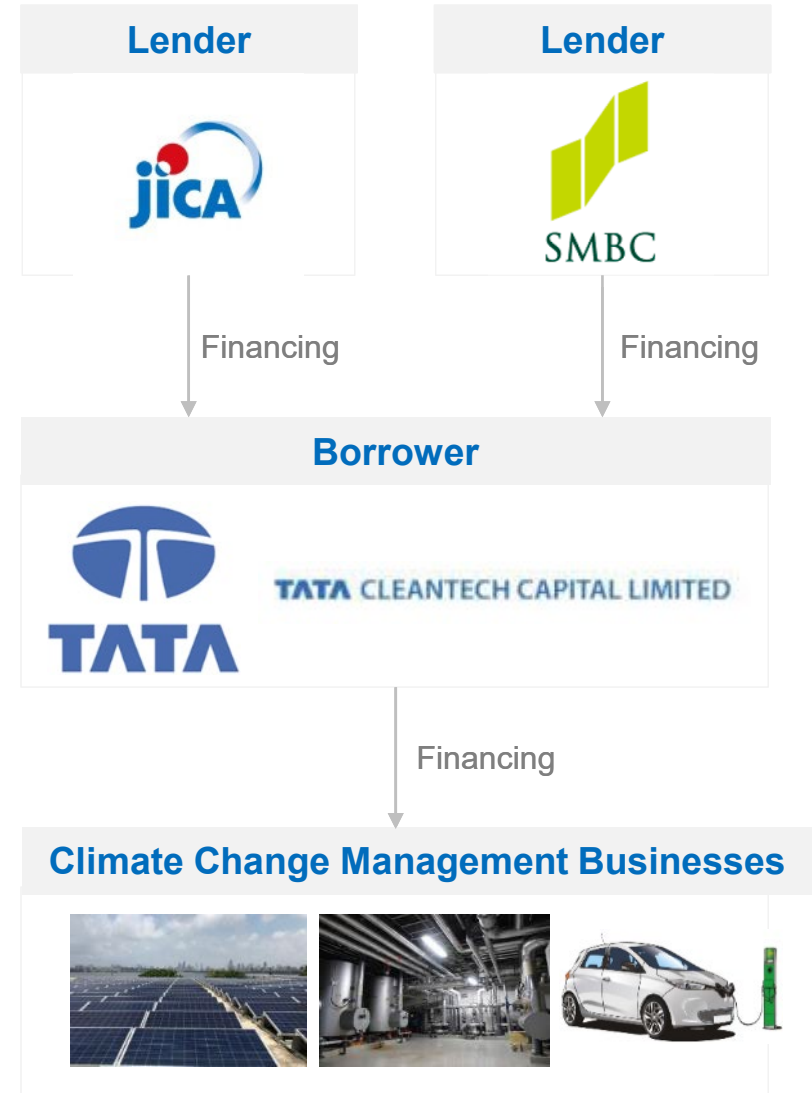
India is the world's third largest emitter of greenhouse gases. With an acceleration in economic growth in the future, it is expected that greenhouse gas emissions will further increase. This Project will promote renewable energy, energy saving, and EV projects and provide support for the reduction of greenhouse gas emissions in India.

2. Support through Tata Cleantech Capital Limited

Tata Cleantech Capital Limited is a financial institution jointly established by Tata Group, one of the largest financial groups in India, and International Finance Corporation (IFC) of the World Bank Group. TCCL is the first private green bank (a financial institution investing in clean energy) focused on climate change control loans and advisory services.

3. Application of Green Loan Principles

This Project specifies that it complies with the Green Loan Principles (investment principles jointly established by the Loan Market Association and the Asia Pacific Loan Market Association).



4. JICA's New Initiative / Case 2



JICA invested to Neev Fund II with SIDBI to support SMEs contributing CO2 mitigation

Outline

The investment to the impact fund contributes to the support for SMEs in India engaged in solving social and environmental issues with the better financial access, which also leads to poverty reduction and sustainable economic growth in the country.

Impact

1. Employment creation and poverty reduction

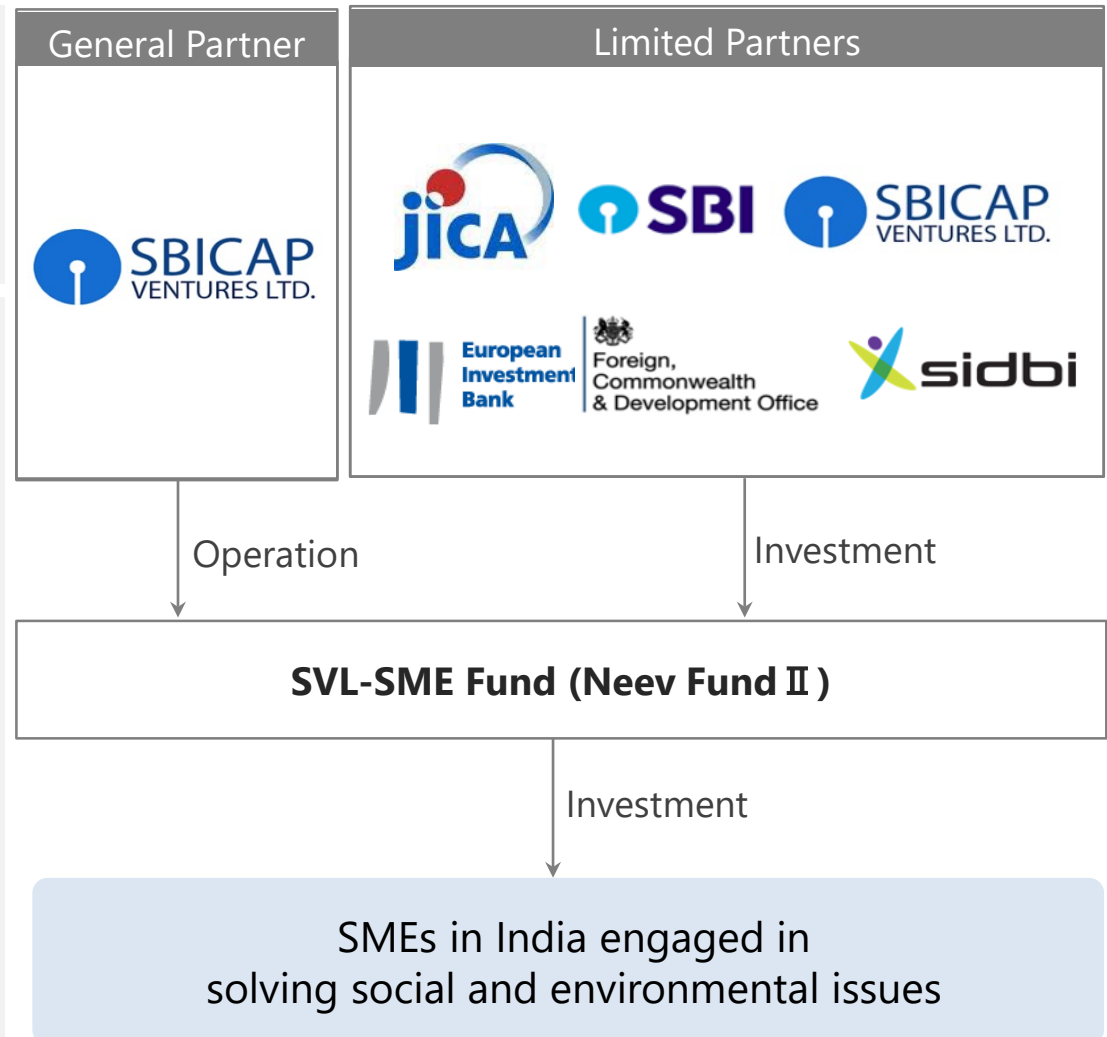
Achieving the SDGs (Sustainable Development Goals) Goal 1 (No Poverty) and Goal 8 (Decent Work and Economic Growth) by improving the financial access.

2. Investment to the impact fund

Not only the investment to renewable energy, climate action, environmental improvement, sustainable agriculture, and urban transportation, clean water, health and sanitation, but also the impact assessment of the invested businesses.

3. International cooperation

Cooperated investment from the global and local financial institutions such as EIB, FCDO, SBI, and SIDBI.



5. Way forward



JICA will support various sectors towards Net Zero Emission of India with all available scheme including **Policy Lending, Two Step Loan, Project Loan, Technical Cooperation (including Capacity Building and Policy Advocacy) and PSIF(Private Sector Investment Finance)**

Energy Efficiency

Green Industry

- ✓ JICA has been supporting industrial development in several states
- ✓ Now it is time to **make Industry Green with energy efficiency equipment and new technology** (including green hydrogen)

Renewable For various sector

Renewable and Electrification

- ✓ JICA will support expansion of **renewable energy and electrification** in various sectors
- ✓ JICA will support all suitable segments including **offshore wind, Zero Emission Building, EV, Green Hydrogen**

Grid Fluctuation Management

Necessity for flexible power

- ✓ India still has significant coal thermal power plants as base load which is not suitable for adjusting its generation based on demand
- ✓ Renewable makes grid unstable and fluctuation management is very important by using **Hydroelectric, Pumped storage and Green hydrogen.**