20th Joint Meeting of the Japan-Brazil Economic Cooperation Committee Session 5 : Natural Resources and Energy



Natural Resources Development Finance and GREEN Facility of JBIC

August 29. 2017 Nobumitsu Hayashi COO, Senior Managing Director



Brief Profile



| Brief Profile | | Government-owned Financial Institution | | | |
|------------------------|---|--|------|--|--|
| Name | Japan Bank for International Cooperation (JBIC) | JBIC is a policy-based financial institution wholly owned by the Japanese government | | | |
| Establishment | , | Policy-based Finance | | | |
| | Export-Import Bank of Japan | JBIC provides non-concessional financing | | | |
| Governor | Akira Kondo | to support Japanese companies' export and investment overseas. | | | |
| Capital* | JPY 1,391bil (USD 12.3bil) | | | | |
| | · · · · · | Financial Instruments | | | |
| Total Assets* | JPY 18,572bil (USD 164.8bil) | Export Loans | | | |
| Net Assets* | JPY 2,525bil | Import Loans | | | |
| | (USD 22.4bil) | Overseas Investment Loans | | | |
| Number of Employees | 672 | Untied Loans | | | |
| Overseas offices | 16 offices | Equity ParticipationsGuarantees | etc. | | |
| | | | | | |

%In 1958, JBIC opened office in Rio de Janeiro (as the 2nd overseas office)



JBIC contributes to the sound development of Japan and the international economy and society by providing various types of financial support to meet the objectives of particular projects.

Promoting the overseas development and securement of resources which are important for Japan



Source: Marubeni Iron Ore Australia Pty. Ltd.



Source: Gas Chemical Limited

-> <u>Natural Resources</u> <u>Development Finance</u>

Promoting the overseas business having the purpose of preserving the global environment, such as preventing global warming



Source: Shams Ma'an Power Generation PSC



Source: Banco Nacional de Comercio Exterior, S.N.C.



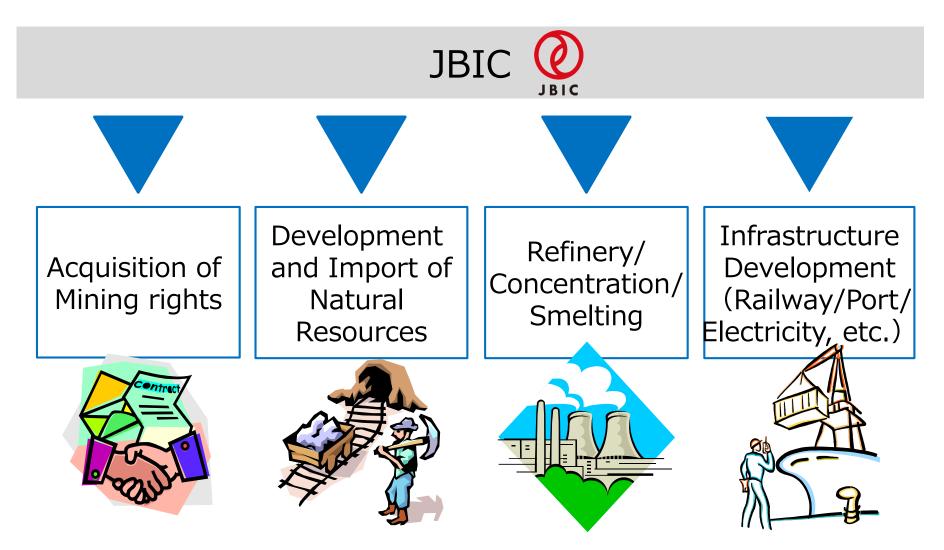


Natural Resources Development Finance

Source: Qatar Liquefi ed Gas Company Limited



Financial Support to Various Phases of Projects



Commitment to Energy & Natural Resources Projects in 5 Years



Total Committed Amount :US \$ 127 Billion

Energy & Natural Resources Project :US \$ 40 Billion

> Energy & Natural Resources

> > 32%



Source: MODEC, INC.



Source: Nippon Steel & Sumitomo Metal Corporation





Source: Cordova Gas Resources Ltd. Source: Sojitz Coal Resources



Source: PETROBRAS



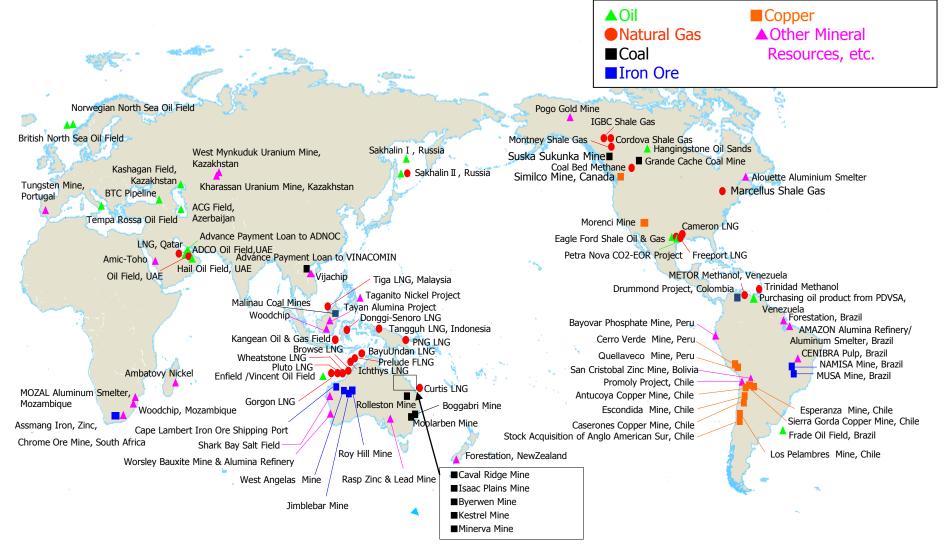
Source: Marubeni Iron Ore Australia Pty. Ltd.

Figures as of March 31, 2017 JPY112.68/USD

Major Projects Over the Last 10 Years

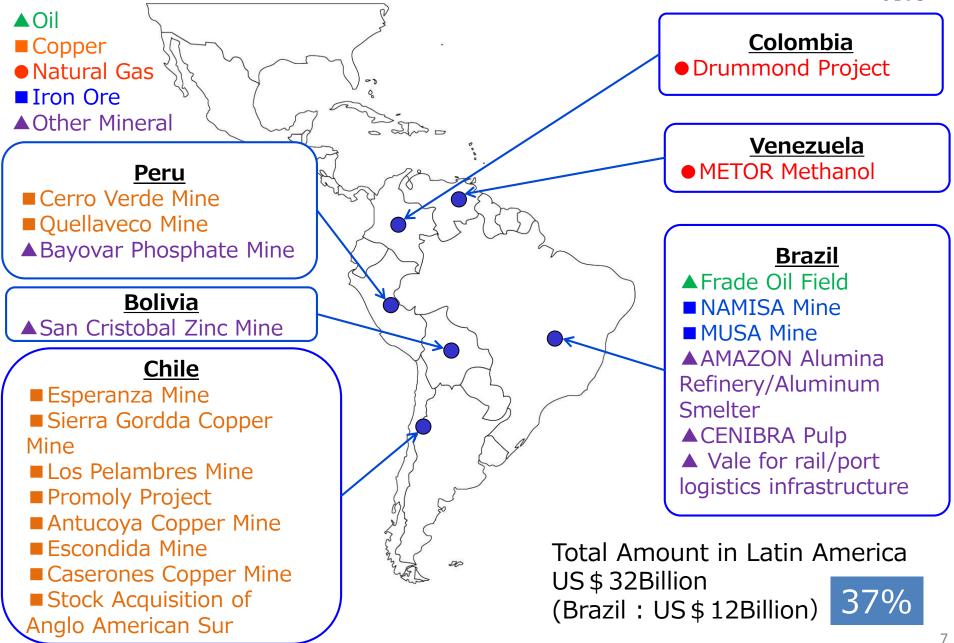


Amount of Loan for Natural Resource Projects (signed) in 10 Years US\$69 Billion



Major Projects in Latin America







Oil & Gas Sector

- Oil Field: Barracuda ('00), EVM ('00), Albacora ('00), PDET ('05), REVAP ('06), Frade ('07)
- ✓ Gas Field: Urucu('97), Cabiunas ('00)
- FPSO*: Espadarte ('06), Gas Opportunity ('09), Tupi ('10), Guala ('11), Cernambi Sul ('12), Cernambi Norte ('13), Carioca ('14), Tartaruga ('15)
- ✓ Drillship: P&M Drilling ('10)
- * Floating Production, Storage and Offloading system **Urucu**



Poto by Steferson Faria, Image Bank of Petrobas

Source: PETROBRAS

Source: MODEC, INC.

Cernambi Sul



Mining and Metals Sector

- ✓ Iron Ore: NAMISA ('08), MUSA ('11)
- Niobium: CBMM ('12)
- ✓ Aluminum: Import loan to ALBRAS ('05), ALUNORTE expansion ('06)
- ✓ Vale for Rail/Port Logistics Infrastructure ('06)

Paper/Pulp Sector

- ✓ CENIBRA expansion ('95)
- ✓ Acquisition of CENIBRA ('01)

СВММ



Source: Nippon Steel & Sumitomo Metal Corporation

CENIBRA

Source: CENIBRA



GREEN Facility of JBIC

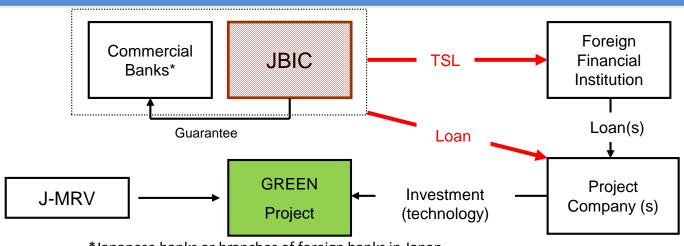
Source: Clusius C.V.



General Features – Untied Loans/ Equity in the Green Sector

| Requirement | Eligible projects aimed at preserving the global environment and accepting J-MRV* for calculating and monitoring GHG emission reduction impact | | | |
|--|--|--|--|--|
| Financial Scheme | Two Step Loan (TSL), Loan to Project Company, Equity | | | |
| Eligible Entity | Foreign Government, Governmental Agencies, Local Governments, Public Enterprises, Foreign Financial Institution, Multilateral Institution | | | |
| Eligible Projects | Renewable Energy, Energy Efficiency and Other Projects | | | |
| *JBIC's Original Methodology for Measurement, Reporting and Verification | | | | |

Typical Structure

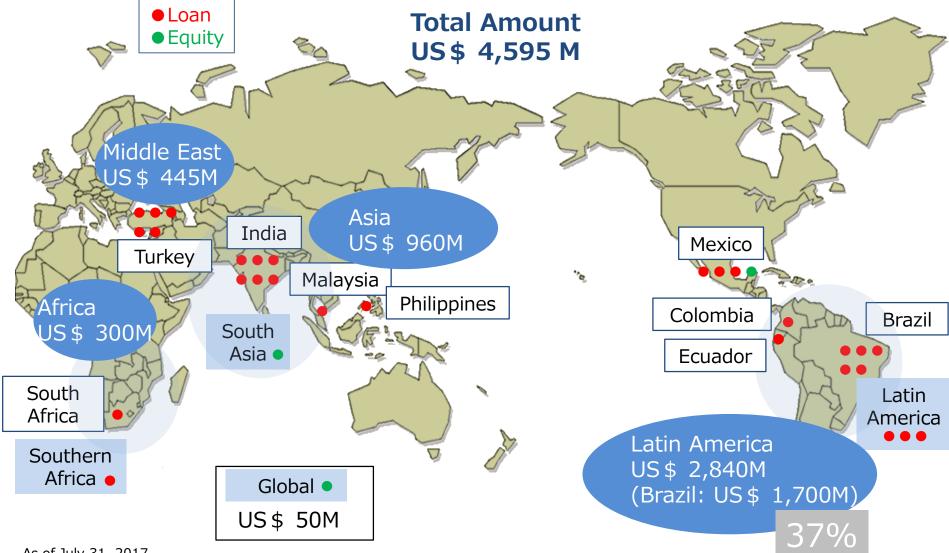


*Japanese banks or branches of foreign banks in Japan

GREEN Experiences

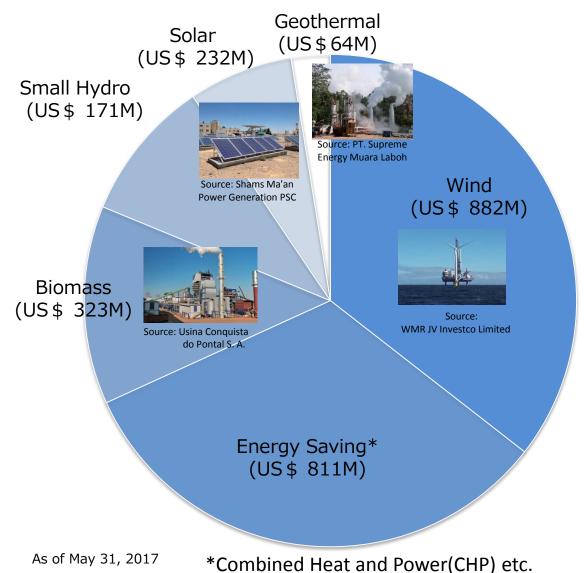


Financing for Renewable Energy & Energy Saving Projects



GREEN: Approved Sub Loan Projects

Approved Amount of Sub Loan Projects by Sector (Total Approved Sub Loan: US \$ 2,480 Million)



Number of Approved Sub Loan Projects by Sector

| Wind | 35 |
|-------------------|----|
| Solar | 21 |
| Small Hydro | 14 |
| Energy Saving* | 6 |
| Biomass | 6 |
| Geothermal | 2 |
| Total | 84 |

As of May 31, 2017

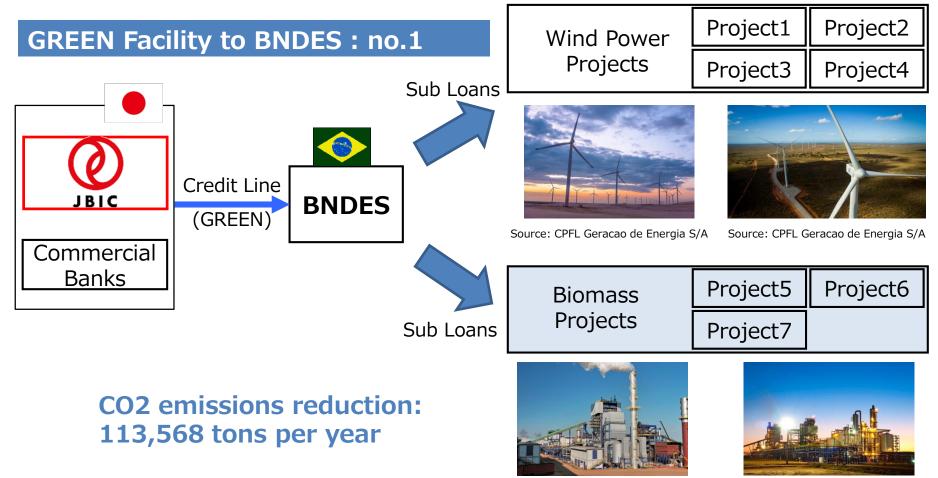
GREEN Track Record in LAC region



| Country | Finance Close | Borrower in Latin America | Amount (US\$M) |
|---------------------|------------------|--|-------------------|
| Andean Region | Mar. 2011 | CAF (Andean Development Corporation) | 300 |
| Brazil 📀 | Mar. 2011 | BNDES | 300 |
| Mexico | Oct. 2011 | Banco Nacional de Comercio Exterior (BANCOMEXT) | 100 |
| Central Americas | Dec. 2011 | BCIE (Banco Centroamericano de Integración Económica) | 100 |
| Brazil 📀 | Oct. 2012 | Petrobras | 1000 |
| Colombia | Mar. 2013 | Banco de Bogota | 100 |
| Mexico | Sep. 2013 | BALAM FUND* | 40 |
| Brazil 📀 | Mar. 2014 | BNDES | 300 |
| Mexico | Jul. 2014 | Banco Nacional de Comercio Exterior (BANCOMEXT) | 100 |
| Brazil 📀 | Mar. 2015 | BNDES | 150 |
| Brazil 📀 | Dec. 2015 | BNDES | 100 |
| Mexico | Mar, 2016 | Banco Nacional de Comercio Exterior (BANCOMEXT) | 100 |
| Andean Region | Apr, 2016 | CAF (Andean Development Corporation) | 100 |
| Ecuador | Feb, 2017 | Republic of Ecuador | 50 |



- GREEN Facility to BNDES for renewable energy projects
 - ✓ no.1: 300 mil USD (Mar, 2011) : 7 Sub-loans
 - ✓ no.2: 300 mil USD (Mar, 2014) : 11 Sub-loans
 - ✓ no.3: 150 mil USD (Mar, 2015) : 1 Sub-loan
 - ✓ no.4: 100 mil USD (Dec, 2015) : 1 Sub-loan



Source: Usina Conquista do Pontal S. A.







We appreciate your attention! Agradecemos sua atenção!



日本の力を、世界のために。

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