



# Webinar on the Joint Crediting Mechanism (JCM)

## Implementation in Chile

- Utilizing the JCM during the COVID-19 Period -

# JCM Model Project Formation Study in Chile



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P R O D U C I N G  
T H E F U T U R E

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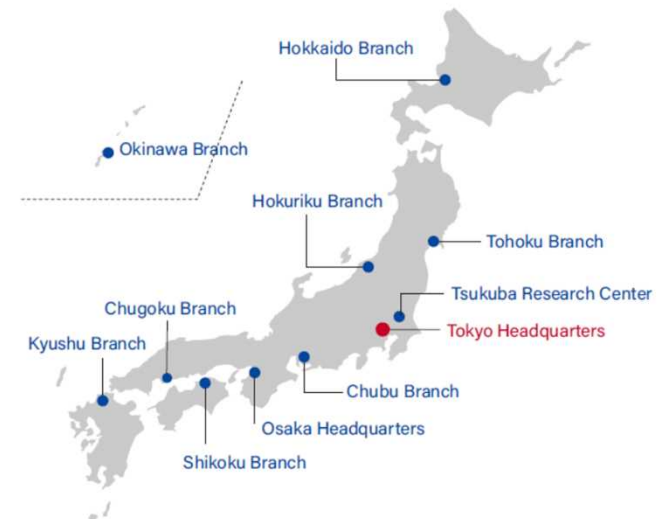
# 1. Company profile

## Who we are?

### PACIFIC CONSULTANTS CO., LTD.

- ✓ September 4th, 1951 established
- ✓ 1,997 employees (as of 2019.10.01)
- ✓ Civil engineering consultants

#### Domestic and Overseas Business Locations



# 1. Company profile

## Business field



**Environmental Management**  
Riverine and Coastal Management, Dams, Ports, Natural Disasters, etc.



**Transportation Infrastructure**  
Roadways, Railways, Airports, Tunnels, Bridges, Structures, etc.



**Mechanical and Electrical Design**  
MEP Planning and Design for Large-Scale Infrastructure and facilities, etc.



**Public Sector Management**  
PPP, PFI, Bidding Support, Public Asset Management, etc.



**Information System**  
GIS and Remote-Sensing, ITS, e-Government, etc.



**Urban Development**  
Transportation Planning, Urban Planning and Design, etc.



**Environment and Energy**  
Water and Sewage, Renewable Energy, Waste Disposal, etc.



**Geotechnical**  
Slope Stabilization, Soil Liquefaction, Soil Analysis, etc.



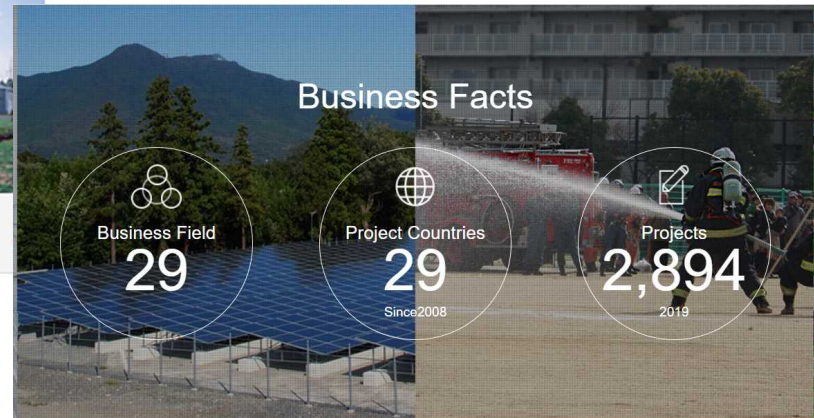
**Overseas Projects**  
ODA, Foreign Government, Private-Sector Clients, etc.



**New Project Development**  
Smart Community, Wellness, Regional Energy Management, etc.



**Research and Development**



# 1. Company profile

## Experiences on JCM financing support program



Small Scale Solar Power Plants for Commercial Facilities in Island States (Palau)

Introduction of Solar PV System on Factory Rooftop (Thailand)



Introduction of Solar PV System at Salt Factory (Kenya)

## 2. Outline of the JCM Model Project Formation Study in Chile

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### Our Mission

Pacific Consultants Co.,Ltd. has been commissioned by **Ministry of Environment Japan** :

- To identify possible project candidates,
- To assist the project candidates to develop proposal for JCM Financing Support Programme
- Targeted countries: Chile, Costa-Rica, and Mexico in Latin America. Also, Maldives, Palau, Kenya, Ethiopia and Saudi Arabia
- Our partner in Chile: SUSTREND



## 2. Outline of the JCM Model Project Formation Study in Chile

### COVID-19 impacts and countermeasures

#### ■ Restriction on travel/ free movement

##### Concerns;

- To make opportunities to meet project owners
- To make better understanding on JCM and each other
- To obtain information/data
- To find out project candidates

##### Countermeasures

- Collaborate with local partner 
- Periodical online meeting with local partner(18:00 in Chile, 6:00 in Japan)
- Meetings between project owners and the local partner
- Online meetings among project owners, us and local partner

## 2. Outline of the JCM Model Project Formation Study in Chile

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### COVID-19 impacts and countermeasures

#### ■ Economical stagnation

##### **Concern;**

- Business plan/ investment plan are forced to be changed
- Difficult to find out project owners who are interested in JCM/ JCM financing support program

##### **Countermeasures**

- Polite explanation on JCM/ JCM financing support program with local partner
- Establish good relationship and make contact continuously



## 2. Outline of the JCM Model Project Formation Study in Chile

### Possible project candidates (as of Dec 2020)

Company Name	Sector	Project
Private company A	Energy supplier	Cogeneration in a Hospital
School	Education	Solar panels with batteries in the Campus
Private company B	EPC	Installation of solar panels
Private company C	Logistic	(1) Fuel replacement for warehouse supply trucks (2) Solar panels for the offices and distribution centers
Private company D	Logistic	Waste to Energy using Waste Tires
Private company E	Manufacture	(1) Waste to Energy: Mining Mill Liners (2) Solar panels on roofs top (3) Fuel replacement in mobile equipment (4) Energy generation with flue gases from the treatment furnace and smelting furnace
Private company F	Recycling	Waste Tire recycling plant
Private company G	Manufacture	Solar panels on roof top of the factory
Private company H	Investment	Investing renewable energy project including ESCO

## 2. Outline of the JCM Model Project Formation Study in Chile

### Contribution to NDC achievement & Green Recovery

Table 1: Measures considered in scenarios projected

Scope	Measure
<b>Stations withdrawal</b>	Renewable energies replacing thermal power station
<b>Sustainable building</b>	Supporting housing, energy renewal, SST - residential y public, Distributed generation, RT vulnerable houses, New MEPS, Public and commercial, electric heating, Geothermic, District heating
<b>Electromobility</b>	100% electric taxis, Public transportation-MR, Public transportation regions, Private vehicles 60%, Commercial vehicles 60%, Change transportation mode
<b>Hydrogen</b>	Cargo transportation, Motor uses in industry and mining, Thermal use via gas distribution pipe
<b>Sustainable industry</b>	SST Industry & mining, Motor electrification others in mining, Motor electrification industry, Motor electrification commercial, Motor electrification copper mining, Generation of biogas, Thermal electrification Energy management systems, MEPS Motors up to 100HP
<b>Nonenergy</b>	Capture or use of biogas from sanitary landfill. Use of sludge from waste water treatment plant as forest bio-stabilizer, Hogs purines bio-managers, Technical assistance for the efficient use of fertilizers

**NDC achievement  
&  
Green Recovery**



**Project Implementation  
utilizing  
JCM financing support  
program**

**Project candidates**

- Cogeneration in a Hospital
- Solar panels with batteries in the Campus
- Installation of solar panels
- Fuel replacement for warehouse supply trucks
  - Solar panels for the offices and distribution centers
- Waste to Energy using Waste Tires

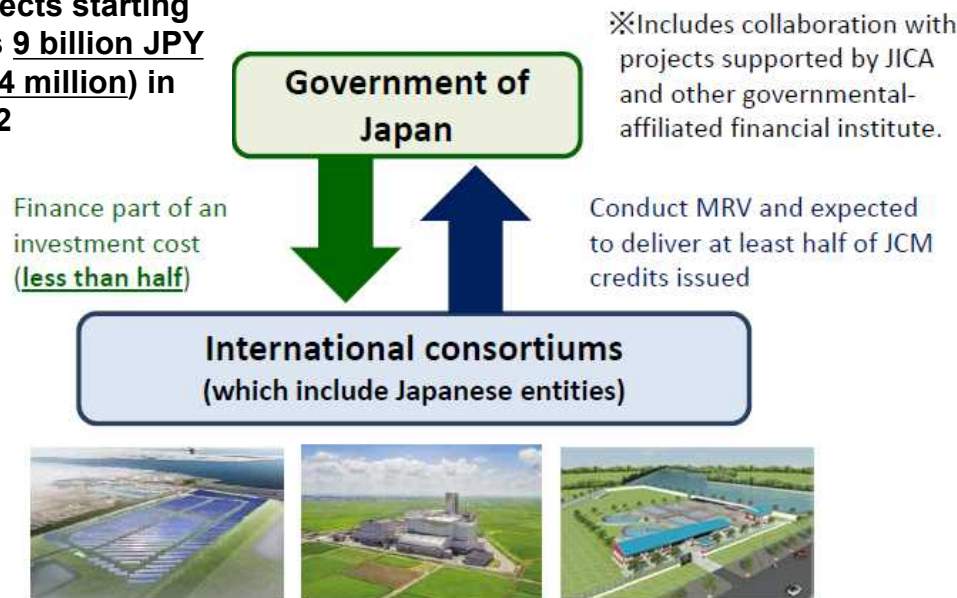
(Source: Chile's Nationally Determined Contribution, Update 2020)

### 3. Key aspects to utilize JCM financing support program

#### JCM financing support program

How can I use this grant?

Budget for projects starting from FY 2020 is **9 billion JPY** (approx. **USD 84 million**) in total by FY 2022 (1USD=110JPY)



- Scope of the financing: facilities, equipment, vehicles, etc. which reduce CO2 from fossil fuel combustion as well as construction cost for installing those facilities, etc.
- Eligible Projects : starting installation after the adoption of the financing and finishing installation within three years.

#### Tips!

- To apply and utilize JCM Model project well, understanding this program is very important
- Pacific Consultants Co.,Ltd. can support the project owner to understand the JCM financing support program

### 3. Key aspects to utilize JCM financing support program

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Example of Frequently Asked Questions on JCM financing support program (5)

- What exactly does the JCM financing support program cover in the case of Solar PV project?

<Answer> In the case of Solar PV project, panel, inverter, cables and monitoring equipment will be covered.

- How much is the minimum reduction to have an attractive project for JCM financing support program?

<Answer> There is no exactly thresholds on the minimum reductions. However, upper limit for financial support to one project is appx. 18 M USD.

### 3. Key aspects to utilize JCM financing support program

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Example of Frequently Asked Questions on JCM financing support program (5)

■ What is the refund system of JCM financial support program?

<Answer> JCM financing support will come after verification on project completion (completion of installation and test run) by GEC.

■ How long does it take for the JCM to refund?

<Answer> No exact timeline, but approximately 2 or 3 months after all required documents are approved by GEC.

# Request for your project information

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Consulting service of Pacific Consultants Co.,Ltd.

**If you will face to any questions, please contact us.  
Pacific Consultants Co.,Ltd. can help to understand JCM  
financing support program and formulate the international  
consortium etc.**

- **Any questions on**

  - JCM and JCM Financing Support Programme

- **Interested in introducing the following:**

  - ✓ **Renewable energy:**

    - Solar, Wind power etc.

    - Grid connected or self-consumption

  - ✓ **Energy saving:**

    - Original power sourced from  
national grid or generated by the project owner

# Contact Information

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