

**MEMORANDUM OF UNDERSTANDING
BETWEEN
THE REPUBLIC OF CHILE
AND
THE STATE OF WASHINGTON
IN THE UNITED STATES OF AMERICA**

**CONCERNING
ENERGY, DISASTER RISK REDUCTION, OCEAN ACIDIFICATION AND ECONOMY**

ACKNOWLEDGING, that the Republic of Chile and the State of Washington in the United States of America share many similarities. Shaped by proximity to a temperate marine climate, both have strong natural resource economies including major seafood, forestry and energy sectors; each is home to globally significant industry leaders, some of which are extremely energy intensive; each has a tradition of innovation and international engagement and each fuels its economic growth through its leadership in the development of renewable electricity;

RECOGNIZING, that both are committed to providing global leadership in addressing the risks of climate change; to enhancing energy security; to realizing the full potential of energy efficiency; to developing competitive, resilient and sustainable energy sectors and to creating resilient communities and new jobs;

CONSIDERING, the potential of collaboration between Chile and Washington State, in sustainable development, growth of the low carbon economy and the expansion of clean energy solutions to address climate change impact, and recognizing each government's firm public commitment to reducing Greenhouse Gas Emissions, in line with their mitigation targets;

DESIRING, to reinforce cooperation between the Republic of Chile and Washington State, particularly in the fields of energy, as we did in the Memorandum of Understanding signed between the Republic of Chile and the State of Washington in Paris in 2015, and expanding our collaboration to disaster risk reduction and ocean acidification;

UNDERSTANDING, the necessity to work together on matters of common interest;

The Republic of Chile and the State of Washington, hereinafter referred as "the Parties," have agreed to the following understanding:

ARTICLE 1

The Parties shall coordinate efforts and promote collaboration through cooperative actions and initiatives as outlined in Article 3, focused particularly on, but not limited to, the following areas and sectors:

1. Energy

- a. Sustainable Energy and Innovation: Supporting the development of and deployment of clean and renewable energy technologies, energy efficiency, integration of renewables into the grid, distributed and community energy generation and the creation of incentives for business development in the renewable energy sector.
- b. Energy Transmission and Distribution: Analyzing transmission and distribution system planning and operations, and new technologies for sustainable systems and the integration of renewable energy.
- c. Energy Planning: Sharing experiences on the development and implementation of low carbon energy plans, including the development and implementation of mid-century decarbonization strategies, the use of energy efficiency measures to reduce costs and emissions, as well as system modelling with a focus on variable renewable energy resources and flexibility.
- d. Sustainable Transportation: Cooperating on the development of resilient, low carbon transportation systems including the expansion of bicycle and transit systems, electric vehicles, hydrogen, and smart cities.
- e. Sustainable Economic Development: Connecting state and local economic development institutions to advance cooperation between private sector interests.
- f. Emissions Reduction: Supporting policy development, decarbonization processes and the creation of incentive based approaches to reduce carbon emissions from industry, power and transportation as well as exchanging information on the use of pricing policies like Chile's carbon tax and its use of daytime/nighttime and other dynamic rate structures for renewables integration, and valuing flexibility.
- g. Project Development: Sharing expertise and resources concerning the siting of energy facilities and infrastructure, to minimize environmental and socio-cultural impacts, aesthetic and other community concerns, and to maximize efficiency.

2. Disaster risk reduction

- a. Forest fires: Cooperation to strengthen the resources for response including, for instance: aircraft, personnel, and logistical equipment and / or capacity building by training and knowledge exchange.

- b. Education: sharing public education methods oriented towards reducing disaster risk and enhancing disaster preparedness.
- c. Safer buildings: for earthquake and tsunami hazards, including the adaptation of constructed buildings and the coastal energy dissipation system.
- d. Science for Resilience: foster research and development, and innovation to improve predictive and institutional memory for construction sciences, as use of big data for future events.

3. Ocean acidification

- a. Ocean Acidification Planning and Actions: Sharing experiences in developing ocean acidification plans and in implementing actions to reduce acidification and to address its impacts, including efforts to protect the shellfish aquaculture industry and to research the role of aquatic habitats and shell recycling in reducing acidification or sequestering carbon.
- b. Oceans Climate Nexus: Supporting the elevation and inclusion of oceans in climate agreements and sharing expertise in addressing climate impacts on oceans such as through Nationally Determined Contributions and other policy mechanisms.
- c. International Coordination: Cooperating on the strategic advancement of ocean-climate partnerships, including the International Alliance to Combat Ocean Acidification. Coordinating and assisting on member recruitment, messaging, work plans, and strategies to maximize efficiency and impact.
- d. Adaptive Management: Sharing knowledge about climate impacts on aquatic vegetation and other critical marine habitats, marine conservation areas and potential adaptive management strategies.

4. Economy

Organizing and supporting cooperation between businesses working in specific industry sectors, which may include gatherings on artificial intelligence technology, agriculture, and other sectors of mutual interest.

ARTICLE 2

Both Parties shall coordinate, facilitate and implement cooperative activities described in Article 1 through the implementing entities designated by each of them.

On behalf of the Republic of Chile, the implementing entities will be Ministry of Energy, National Emergency Office of the Ministry of the Interior and Public Security (ONEMI), National Forestry Corporation (CONAF), and Ministry of Foreign Affairs (Energy, Science, and Technology & Innovation Division and the Environment and Maritime Affairs Division).

On behalf of the State of Washington, the lead implementing entity will be the Washington State Department of Commerce, with ongoing support from the Office of the Governor. For energy topics, additional agencies will include the Washington Department of Ecology and the Washington State Utilities and Transportation Commission. For disaster risk reduction topics, additional agencies will include the Washington State Patrol (State Fire Marshal) and the Military Department (Emergency Management Division), with an invitation to the Washington Department of Natural Resources to participate. For ocean acidification topics, additional agencies will include the Washington Department of Ecology, the Washington Marine Resources Advisory Council, and the University of Washington (Washington Ocean Acidification Center), with an invitation to the Washington Department of Natural Resources to participate.

In order to facilitate the implementation of this MOU, each of the Parties shall designate a lead coordinator to implement a work plan referred to in Article 3 below. The plan can be modified by mutual consent of the Parties. In the case of Chile, it will have the title of Executive Director of the Plan Chile-Washington State. In the case of Washington, it will be the Director of Economic Development in the Washington State Department of Commerce.

ARTICLE 3

In order to achieve the objectives of this MOU, the lead coordinators shall develop joint specific work plans focusing on the priority areas referred to in Article 1.

The plan of cooperation between the partners may include, but is not limited to, the following actions:

- Sharing information and experiences about policies and programs that have been effective in each jurisdiction, as well as future perspectives.
- Identifying and educating on “Best Practice Policies” that have cost effectively reduced greenhouse gas emissions, strengthened local economies, created jobs and improved human health.
- Inviting other participants to comment on policies, plans and economic development programs.
- Facilitating connections, exchanges and dialogue between local jurisdictions, academic and research institutions, businesses and other interested parties in each partner region whose expertise contributes to the overarching goals of this MOU.
- Developing exchanges and temporary assignments, in matters of Article 1.
- Supporting business to business dialogue around matters of Article 1.
- Co-developing strategies and policies to promote the matters in Article 1.

ARTICLE 4

The Parties and implementing entities shall finance activities under this MOU with resources allocated in their own budgets, as these resources become available. Each Party shall pay for expenses related to its own participation, unless alternative financial mechanisms can be used for specific activities as appropriate and as authorized by law.

ARTICLE 5

The Parties agree that no confidential information shall be transferred under this MOU.

ARTICLE 6

The Parties acknowledge that this MOU is only intended to promote cooperation between them and does not create any legally binding rights or obligations. To the extent that any other provision of this MOU is inconsistent with this Article, this Article shall prevail.

ARTICLE 7

This MOU shall commence on the date of signature and will have an indefinite duration.

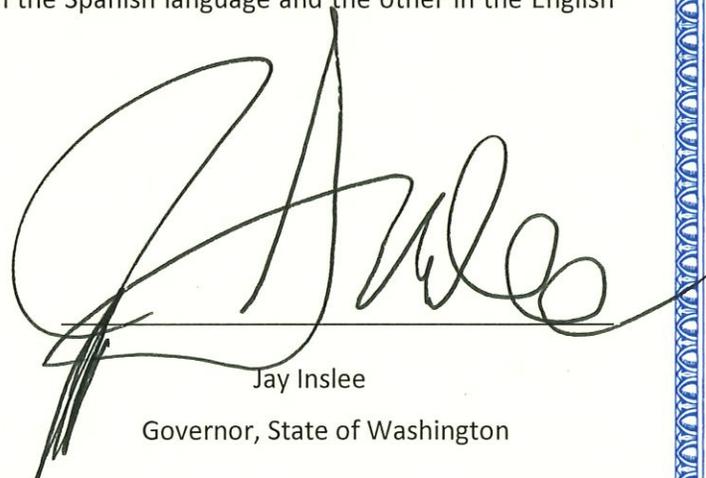
This MOU may be amended in writing by mutual consent of the Parties, specifying the effective date of entry into force.

Any of the Parties may terminate this MOU through written notification to the other Party with thirty (30) calendar days in advance.

Signed in the city of Seattle, Washington, United States of America on November 27, 2018, in two equally authentic original copies, one in the Spanish language and the other in the English language.



Oscar Alfonso Silva Navarro
Ambassador of Chile to the United States of America



Jay Inslee
Governor, State of Washington