

3-1. Follow-up PREE in Chile

APERC Workshop

The 68th Meeting of APEC Energy Working Group (EWG68)
12 August 2024 – Lima, Peru

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Outline



Introduction

Background

- PREE was endorsed in 2008 at EWG35
- Started in 2009, **Chile** was the 2nd economy to host a PREE workshop;
- There were 18 peer reviews on energy efficiency
 - 11 PREEs
 - 7 Follow-up PREEs (Chile was the 7th)

“In their Darwin Declaration of 29 May 2007, APEC Energy Ministers recognized the importance of pursuing policies and technologies to promote the development of cleaner energy and the improvement of energy efficiency and conservation.

In order to assist interested economies in developing policies that support energy security and environmental objectives, the energy Ministers have directed the EWG to develop a voluntary Energy Peer Review Mechanism, with an initial focus on progress toward attaining energy efficiency goals

EWG35 then endorsed a Peer Review on Energy Efficiency (PREE) proposal that puts in place an ongoing series of reviews of economy energy efficiency policies and programs across APEC economies.”



FuPREE in Chile Agenda

Day 1– Opening session

- Remarks from Undersecretary of International Economic Relations; Undersecretary of Energy; APERC President
- Energy Efficiency Context in Chile

Day 2 – Sectoral presentation

- Demand management, Transport, Buildings, Energy efficiency in Cities

Day 3 – Sectoral presentation

- Industry, Labelling standards, Public sector

Day 4 – Site Visit and Internal discussion of peer review experts

- Territoria project and Preliminary discussion

Day 5 – Presentation of preliminary recommendations to Chile officials

- ❖ *3 days of peer review*
- ❖ *1 day for site visit*
- ❖ *Presentation and discussion of the preliminary recommendations*

Participants

The Experts



Mr Alan Pears,
AM (Australia)



Dr Liu Ren,
PhD (China)



Dr Hsu-Cheng
Chiang, PhD
(Chinese
Taipei)



Dr Terry
Surles, PhD
(United
States)



Dr Zhuolun
Chen, PhD
(UNEP-
Copenhagen)

APERC



Dr Kazutomo
Irie, PhD



Ms Elvira
Torres
Gelindon



Dr Manuel
Heredia
Muñoz, PhD



Mr Ting-Jui
Sun (Ray)

Ministry of Energy, Chile



Group photo
(Officials and staff)

▪ **Energy Sustainability Agency (ESA)**

- Strategic Planning and Sustainable Energy Division
- Regulatory Unit
- Efficient Transport Unit
- Buildings and Cities Unit
- Geothermal and District Energy Unit
- Productive Sectors Unit
- Sustainable Energy and Resource Unit
- Sustainable Transport Unit

Key highlights

Scope of review and report

Energy efficiency policies development and deployment

Overview, institutional and legal energy efficiency framework

Data collection and monitoring

Productive sector/Industry, standards

Buildings, labelling, lighting and energy management systems, HVAC
(Heating, ventilation and air conditioning)

Transportation, energy-efficient mobility, standards

Energy efficiency in cities, district energy systems

Energy transition, sustainable energy, energy systems

❖ *Although this is a follow-up, it's been more 10 years since the original peer review, scope was expanded and issues from 2009 PREE were revisited.*

Goals and main actions

❖ Energy Efficiency National Plan

- Provides a strategic framework for the development of energy efficiency in Chile;
- Aims for potential energy savings that will make it possible to achieve carbon neutrality by the year 2050.
- Energy intensity reduction goals (compared to 2019 figures)
 - 4.5% by 2026
 - 13% by 2030
 - 30% by 2050



Preliminary results

DISCLAIMER : Drafting of report is ongoing, please do not quote.

Accomplishments (Preliminary)

Accomplishments

- Created the Energy Sustainability Agency (ESA);
- Addressed several recommendations from PREE in 2009; publications of several policy documents;
- Made significant progress on industrial energy efficiency including training and requirements to develop energy management systems using international standards;
- Implemented appliance labelling and performance standards;
- Established rating and certification of Housing Energy Rating (CEV) and Sustainable Building Certification (CES);
- Integrated programs and cooperation with other agencies, e.g. schools.

Challenges (Preliminary)

Challenges

- Regional differences in building design across Chile and geographically oriented decarbonization paths might need to be considered;
- Historic policy and regulatory structures block effective action on energy efficiency, demand management and response, distributed energy and energy storage opportunities to reduce transition costs and future costs and carbon emissions;
- Coordination challenges on roles and responsibilities of energy agencies that are not clearly defined to provide greater flexibility for implementation (e.g. longer timeframes for ESA projects);
- Absence of own standards or a testing laboratory to develop own assumptions as a guide; limited end-use data;
- Lack of strong promotion and monitoring of field performance to underpin policy.

Preliminary recommendations (1)

Energy efficiency policies development and deployment

- Incorporate the value of multiple benefits into cost-benefit assessments of energy efficiency options, e.g. health, cost, etc.

Overview, institutional and legal energy efficiency framework

- Encourage the intervention of high-level committee to properly determine responsibilities in the implementation of energy efficiency measures.

Data collection and monitoring

- Establish a lighting and appliance testing laboratory to verify claims on energy ratings, avoiding too many assumptions.

Productive sector/Industry, standards

- Develop green finance vigorously, strengthen financial support for energy-efficient and low-carbon industry development.

Preliminary recommendations (2)

Buildings, labelling, lighting , and EMS, HVAC

- Develop an economy-level or regional building energy efficiency roadmap.

Transportation, energy-efficient mobility, standards

- Build strong links between Ministry of Energy, Ministry of Housing and Urban Planning, and related government entities participating in relevant policy decisions.

Energy efficiency in cities, district energy systems

- Establish financing mechanisms for district energy.

Energy transition, Sustainable energy, Energy systems

- Develop a plan to enhance their focus on demand flexibility (Ministry of Energy and associated governmental bodies).

Way forward

Timeline

Indicative dates	Activity
9-10 May 2024	<ul style="list-style-type: none"> ▪ Draft preliminary recommendations (in bullets form in ppt template) ▪ Discussion (APERC and peer review experts)
13 May–12 July 2024	<ul style="list-style-type: none"> ▪ Continue drafting the findings of peer review (preliminary report on accomplishments, challenges and recommendations from APERC and peer review experts, respectively) ▪ Address additional questions from the peer review experts (if any)
31 July-16 August 2024	<ul style="list-style-type: none"> ▪ Consolidating draft preliminary report for the experts' comments/review (APERC)
12-15 August 2024 (EWG68)	<ul style="list-style-type: none"> ▪ Deliver the presentation at APERC Workshop
19 August – 31 October 2024	<ul style="list-style-type: none"> ▪ Continue drafting the FuPREE in Chile preliminary report (APERC) ▪ Sending the draft report to Chile for review/comments
November 2024	<ul style="list-style-type: none"> ▪ Submit FuPREE in Chile draft report to the APEC secretariat for EWG approval

❖ ***FuPREE in Chile will (probably) be the last peer review and we are moving forward to a new project, the “Capacity-Building Workshop for Energy Efficiency and Conservation Policy”***

Site visit

Site visit to Territoria project



Mercado Urbano Tobalaba (MUT)



Guests, Ministry of Energy, Energy Sustainability Agency, MUT officials and staff

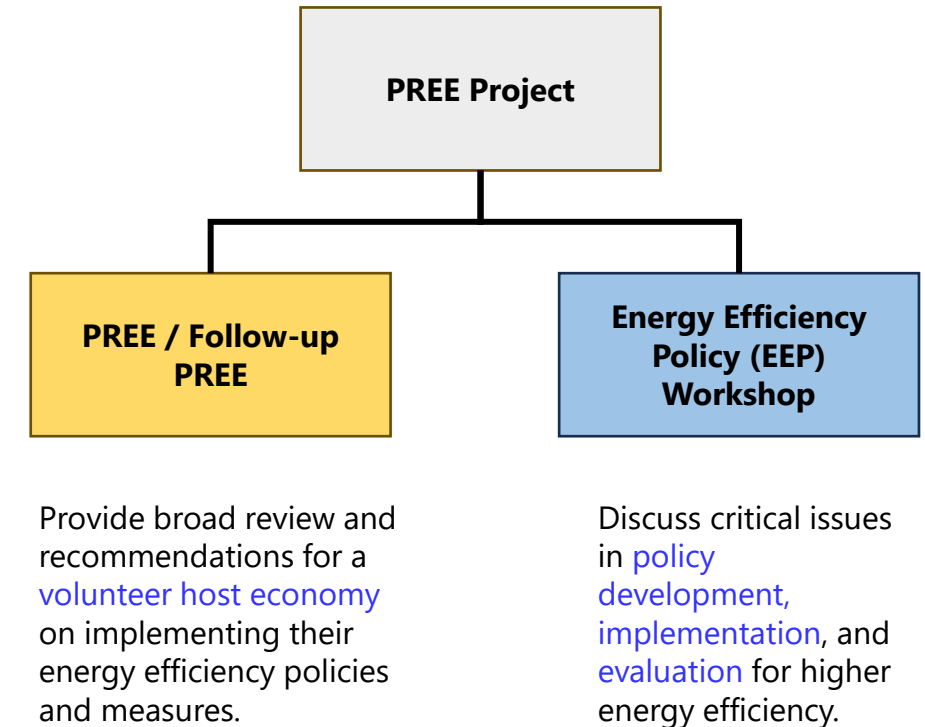
MUT must create:

- Public space
- Community and quality of life
- Source of development and growth
- Improvements of urban environmental conditions

Announcement

8th Energy Efficiency Policy Workshop (in PREE Phase 13)

- To be held in conjunction with the **63rd EGEEC meeting** in **Tianjin, China**, on **5 November 2024**.
- **Theme: *Energy Management: Standards, Policies, and Best Practices*** (focusing on integrating international standards and policy instruments for advancing energy management systems).
- APERC invites **experts from international organizations and some economies** to discuss and exchange policy planning and implementation on energy management and energy audit.
 - **Speaker** – to present the economy's practices on energy efficiency [policy practices on Energy Audit (EA) and Energy Management System (EMS), international standards application and challenges].
 - **Participant** – to share the current situation and engage in the discussion (policy practices on EA and EMS)



❖ *APERC is looking forward to your nominations/participation in the workshop*

Thank you.

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