


REVOLUCIÓN
ENER
gÉTIC
CA EN
CHILE

MÁXIMO PACHECO M.

ESCUELA
DE GOBIERNO

PONTIFICIA
UNIVERSIDAD
CATÓLICA
DE CHILE

A photograph of Al Gore speaking at a podium. He is wearing a dark suit, a white shirt, and a blue tie. He has his hands raised in a gesture of emphasis. In the background, a large, glowing blue and white image of the Earth is visible against a dark sky. The scene is lit with blue light.

“CHILE ESTA INSPIRANDO AL MUNDO CON UNA
EXPANSIÓN SIGNIFICATIVA DE LA ENERGÍA SOLAR,
MÁS RÁPIDO QUE CUALQUIER OTRO PAÍS EN EL
PLANETA.”

Al Gore

“An Inconvenient Sequel: Truth to Power”, Julio 2017.

The New York Times

INTERNATIONAL EDITION MONDAY, AUGUST 14, 2017

Fate of Bibi won't divert Israel's path

Samuel Rensner
Contributing Writer

OPINION

On a recent evening, as far from where I live, thousands of thousands of Israelis gathered in Tel Aviv, celebrating the victory of Benjamin Netanyahu's coalition government in the 19th Knesset election. The crowd chanted Bibi's name, and Netanyahu himself was on stage, celebrating his victory. The crowd chanted Bibi's name, and Netanyahu himself was on stage, celebrating his victory. The crowd chanted Bibi's name, and Netanyahu himself was on stage, celebrating his victory.

Why do we care so much about Bibi's fate? Bibi is not just a politician; he is a symbol of Israel's resilience and its path forward. His leadership has been instrumental in navigating the country through difficult times, and his continued presence is seen as a sign of stability and progress.

As the political landscape shifts, the question remains: will Bibi's leadership continue to guide Israel through its challenges? The coalition government's success in the election is a testament to the public's confidence in his leadership, but it also raises questions about the future of the coalition and the role of Bibi in the government.



Workers installing pole foundations at South America's first geothermal energy plant, located in Cerro Chibola, Chile. The new plant will be able to power about 100,000 homes.

Chile's energy transformation

CLARA BRILLON, CHILE

Nation is a powerhouse for renewables thanks to wind, sun and volcanoes

It looks and functions much like an oil drilling rig. A tall tower, several of them, stands in a row on a hillside. The towers are connected to a network of cables and pipes, and they are surrounded by a complex system of infrastructure. This is the Cerro Chibola geothermal plant in Chile, one of the country's first geothermal energy projects. The plant is designed to harness the power of the earth's heat to generate electricity, providing a clean and sustainable source of energy.



Some of what drives the business boom and along Chile's 1,200-mile coastline is geothermal power, or energy naturally occurring underground.

Chile is a country with a rich natural resource base. It has abundant supplies of wind, solar, and geothermal energy. The government has been proactive in promoting the development of these renewable energy sources, providing incentives and support for investors. This has led to a significant increase in the number of renewable energy projects being developed in the country.

The Chilean government's commitment to renewable energy is a key factor in the country's energy transformation. By investing in infrastructure and providing a supportive regulatory environment, the government has created a favorable environment for the growth of the renewable energy sector. This is expected to lead to a more sustainable and secure energy future for Chile.

Mueller seeks to interview top officials

WASHINGTON

List is said to include recently-fired White House chief of staff

BY MICHAEL J. SCHWARTZ
AND MARCIE HARRISMAN

In a sign that the investigation into Russian interference in the 2016 presidential election for the White House, the special counsel, Robert Mueller, has a list of top officials who he wants to interview. The list includes several high-ranking White House officials, including the recently fired chief of staff, Michael Flynn. The investigation is ongoing, and the results are expected to be released in the coming weeks.

The list of officials to be interviewed is a key part of the investigation. It includes names such as Michael Flynn, Stephen Miller, and others who were involved in the White House's response to the Russian election interference. The special counsel is expected to conduct these interviews in the coming days, and the results will be made public as soon as possible.

The investigation into Russian interference in the 2016 presidential election is a major focus of the special counsel's work. It is expected to provide a comprehensive look at the events leading up to the election and the role of the White House in the process. The results of the investigation will have significant implications for the future of the United States.

“CHILE’S ENERGY TRANSFORMATION”

Nation is a powerhouse for renewables thanks to wind, sun and volcanoes

August 2017, The New York Times

Art of home restoration: Julia Child gets a sequel

Owner hopes to revive the legendary chef's old home in Washington

BY HEAR WELAND

The home on Chesapeake Bay was Julia Child's "Julia's place" on the film. She lived there for 15 years before she died. The home is now being restored to its former glory, and the owner hopes to open it to the public as a museum and restaurant. The restoration project is a labor of love, and it is expected to be completed in the coming years.

Oil & Money

The New York Times | Energy

October 17, 2017

Oil & Money is a weekly publication that provides in-depth analysis and news on the energy industry. It covers topics such as oil prices, renewable energy, and global energy trends. The publication is a valuable resource for anyone interested in the energy sector.

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The Washington Post

Sunny 63-84 • Temperature Range 62-93 6:40 **Democracy Dies in Darkness** © 2017 The Washington Post Company MONDAY, APRIL 3, 2017 • \$3.50

DISABLED AMERICA

Disabled or just desperate?



Rural Americans are increasingly applying for benefits as jobs become more scarce

By THOMAS MCCRY in HOUSTON, TEX.

The lobby of the pain-management clinic had become crowded with patients, so relatives had gone outside to their trucks to wait, and here, too, an exhausted Spencer, smoking a pipe cigarette and watching the show, he tried adjusting one leg after another, knowing some would take hours, and refused. He couldn't sit easily for long, his eyebrows and so he took a sip of soda and again thought about what he should do.

The lobby had a waiting job in a coat. He was skipping meals to save money. He wore jeans torn open in the front and back. His body didn't work all over his body. He slipped in the lobby, and in the night, his body would need only a small amount of rest to be starting at his toe.

But all of this pain meant he was disabled? Or was he just desperate?

He wouldn't even turn 60 in a few more months. As he passed, and his confidence rose. He picked his words carefully and hung up—another clock collecting.

MCCRY CONTRIBUTED TO THIS SPECIAL REPORT

Disabled Spencers seek care in a clinic where he works a few hours a week in Houston, Ala. He lives the country but has found few job opportunities. He was hurt while working and considers applying for disability. **FOR MORE, GO TO WASHDC.DIGITALDISABLED.**

In Bahrain's militant cells, U.S. sees Iran

ANALYSTS LINK ARSENALS TO TEHRAN
Reports of destabilization efforts in region are cited

By NICK MERRITT in RIYADH, SAUDI ARABIA
AND JON WARRICK

The report that the United States had been given a confidential technical dossier for inspection of Iran's nuclear program, for a group known mostly for making nuclear materials at home, is the latest in a series of reports that the U.S. has received about Iran's activities in the region. The dossier, which was obtained by the U.S. intelligence community in late 2015, is the first to be made public since the Obama administration announced its nuclear deal with Iran in 2015. The report says that Iran has been spreading its nuclear program over nearly three years. In other reports, the U.S. has seen that Iran has never been in Bahrain; the country's investigators said in a report provided to U.S. and European officials that Iran has been using Bahrain as a base for its operations in the region. The report also says that Iran has been spreading its nuclear program over nearly three years. In other reports, the U.S. has seen that Iran has never been in Bahrain; the country's investigators said in a report provided to U.S. and European officials that Iran has been using Bahrain as a base for its operations in the region.

A tea party evolves into budget salesman

OHIO DIRECTOR MUST PERSUADE LAWYERS TO ADVERT A SHUTDOWN

By PHILIP REAVES AND DASHAN PALAIA

When the government last shut down, in 2013, Mick Mulvaney considered himself part of the "shutdown caucus," a group of House Republicans who believed such a shutdown would force the Obama administration to do what it wanted. Now, four years later, Mulvaney is in an office room with the former commander, responsible for

MULVANEY CONTRIBUTED TO THIS SPECIAL REPORT

“AS THE UNITED STATES CHEERS COAL, OTHERS GO SOLAR”

Chile, blessed with the extraordinary Atacama Desert, is a leader in harvesting the sun's power

April 2017, The Washington Post

As the United States cheers coal, others go solar

Chile, blessed with the extraordinary Atacama Desert, is a leader in harvesting the sun's power

U-Va. list flags donors for special handling

By T. RICK MERRITT

The University of Virginia's fundraising team for grant has sought to help citizens of wealthy alumni and government donors who apply for admission, and those who seek special handling, according to documents obtained by the Washington Post.

The records from the U-Va. advancement office, which oversees fundraising for the private grant-making foundation, reveal how a handful of officials in executive admissions file and then assist those in jeopardy of rejection.

The U-Va. donor lists the advancement office had sought for the admissions decisions. But the documents show the office had intervention notes on the status of various U-Va. applicants and their status on the list.

Within U-Va., the records were known as an annual "watch list." They provide a case study of what is going on in an applicant's family has given them money—or might in the future.

MERRITT CONTRIBUTED TO THIS SPECIAL REPORT



Workers clean insulators at a substation at the Cerros Dominador solar plant near Calama, Chile.

2014: CRISIS ENERGÉTICA

ALTOS PRECIOS
DESCONFIANZA
FALTA DE COMPETENCIA
FRENAZO DE INVERSIONES



PATAGONIA
PARA LOS HIJOS
Y NIETOS

PATAGONIA
SIN REPRESAS

AGENDA DE ENERGÍA

UN DESAFÍO PAÍS, PROGRESO PARA TODOS

NUEVO ROL DEL ESTADO

PRECIOS RAZONABLES

USO DE RECURSOS PROPIOS

DESCENTRALIZACIÓN

CONECTIVIDAD

DESARROLLO SUSTENTABLE

PARTICIPACIÓN Y DIÁLOGO SOCIAL

GESTIÓN DEL CONSUMO

IMPULSO A LA INVERSIÓN

Capital humano y equipos técnicos robustos



Política pública con legitimidad política y social



Disciplina y valor de la Ejecución



Electrificación de Camarones, Arica

Conseguir que las cosas se hagan bien

Ciudadanización de la Energía



Desarrollo y protección ambiental



Descentralización, Regionalización y Desarrollo Local



Energización Isla Huapi, Valdivia

Escuchando las demandas ciudadanas: Ley de Equidad Tarifaria



Agenda legislativa transversal y consensuada



Licitaciones
Nuevas Seremias
Colectores Solares y Ampliación de Giro ENAP

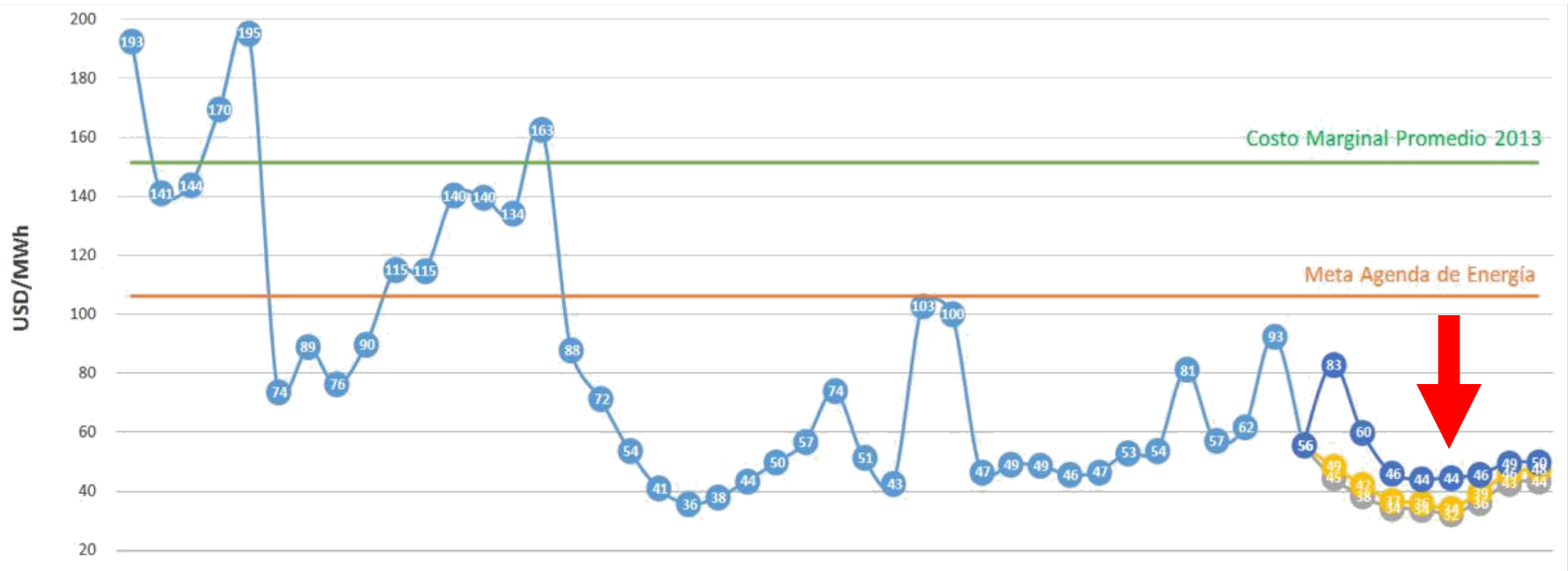
Equidad Tarifaria

Gas de Red

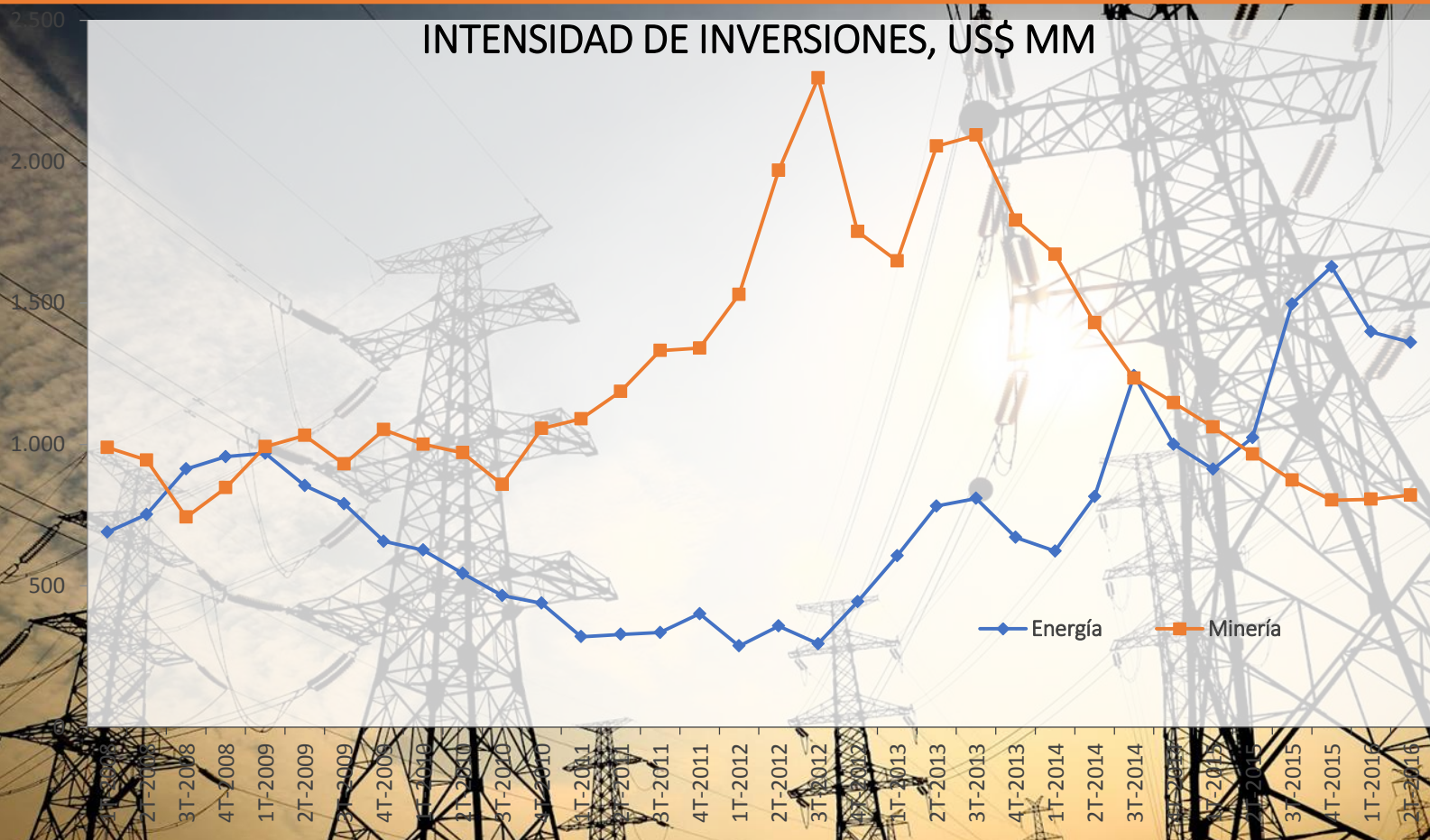
Transmisión

Gobierno Corporativo de ENAP

COSTO MARGINAL CAE 60%



SECTOR ENERGÍA: N° 1 EN INVERSIONES EN CHILE



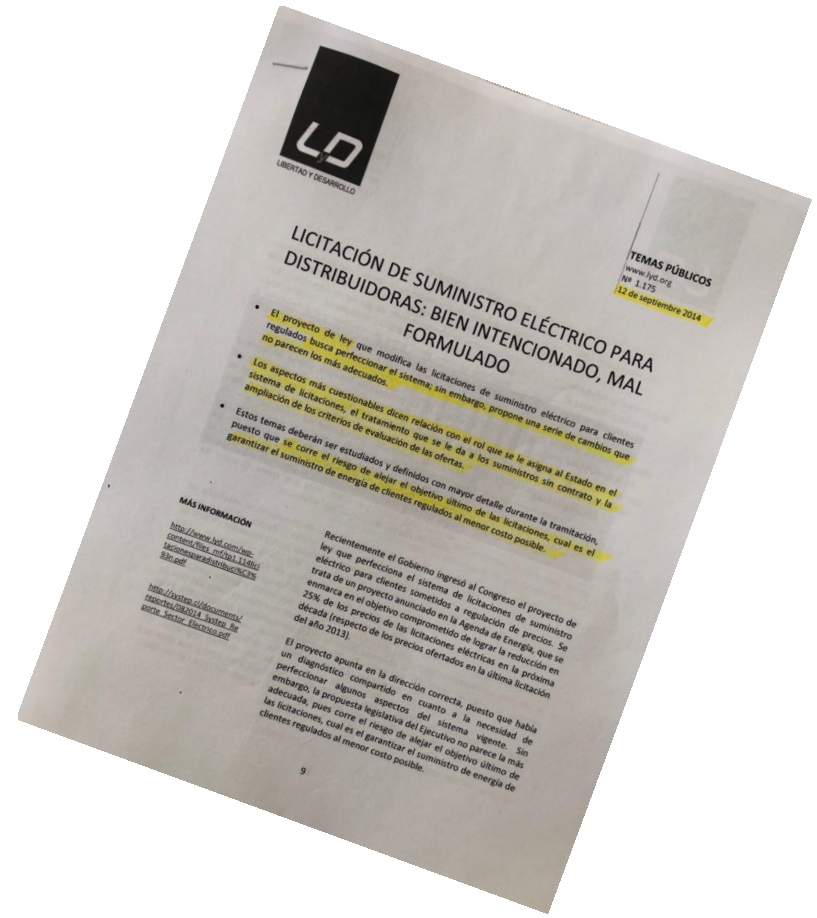
COMPETENCIA Y CAÍDA EN EL PRECIO DE LICITACIONES



ESTADO PRESENTE E IMPULSOR DE LA COMPETENCIA

*“...cuestionable... el rol que se le asigna al Estado.
... se corre el riesgo de alejar el objetivo último del las licitaciones, **garantizar** el suministro de clientes regulados al menor costo posible”*

LyD, 2014



Interconexión SING - SIC



ENERGÍA 2050: UNA POLÍTICA CON MIRADA DE FUTURO



ENERGÍA 2050

POLÍTICA ENERGÉTICA DE CHILE

Meta 2050: 70% de generación eléctrica con energías renovables.

Meta 2035: 60% de generación eléctrica con energías renovables.

OBJETIVO A LARGO PLAZO: ESTAR ENTRE LOS PAÍSES OCDE CON LA ELECTRICIDAD MÁS BARATA

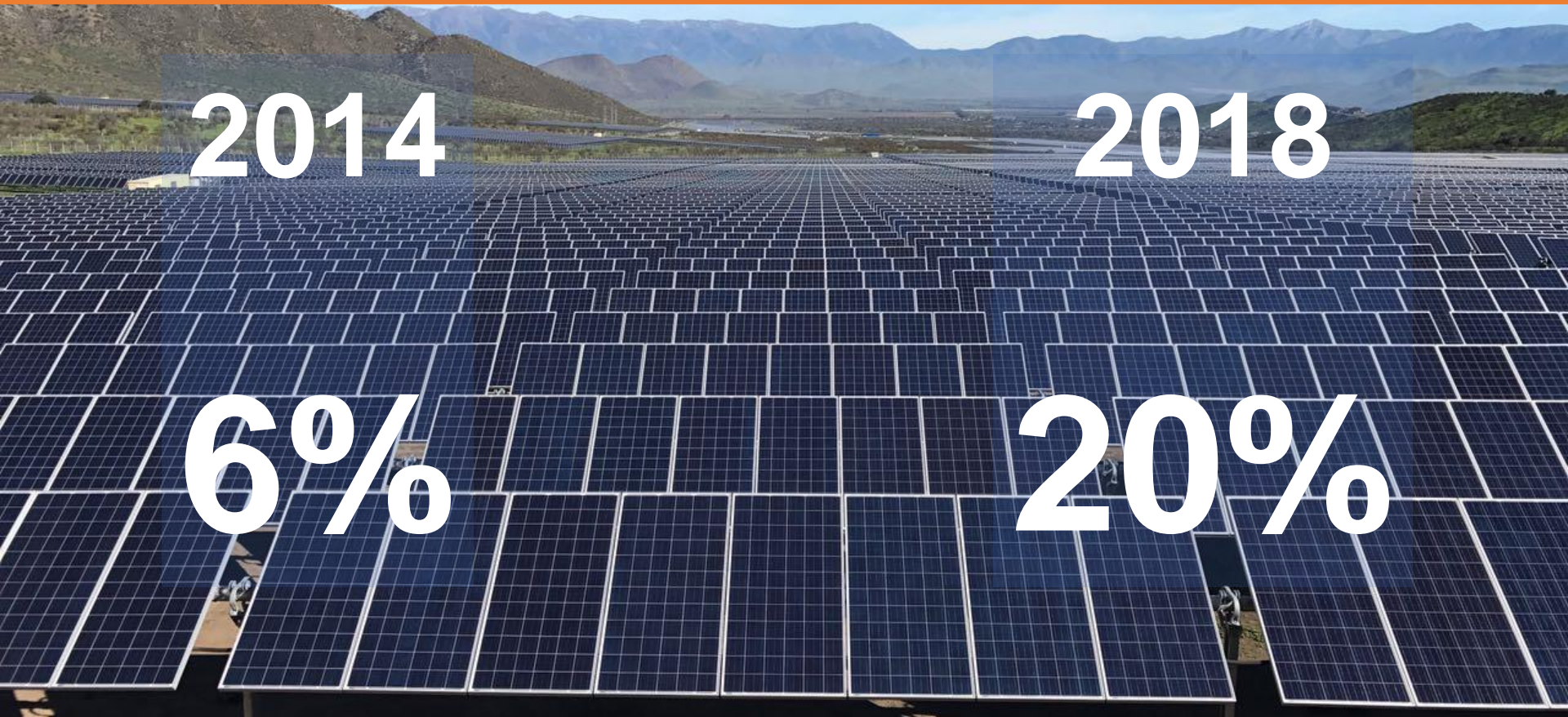
RECUPERAMOS “VOCACIÓN RENOVABLE” MATRIZ SEGUIRÁ EXPANDIÉNDOSE CON ERNC

2014

2018

6%

20%



Algunas lecciones

REVOLUCIÓN ENER GÉTICA EN CACHILE

- Capital Humano y equipos técnicos robustos

- Política Pública con legitimidad social

- Disciplina de la Ejecucion

- Comunicar, escuchar y difundir

- Apoyo y respaldo Político

DESAFÍOS Y OPORTUNIDADES EN CHILE

GESTIÓN DE CONFLICTOS EN UN ENTORNO CAMBIANTE,
CON GRADOS DE PODER DISTRIBUIDO Y EN DONDE LAS
RECETAS ESCRITAS YA NO SON EFECTIVAS.

ENTRE 2015 – 2017 EL SECTOR ENERGÍA FUE EL #1 EN INVERSIÓN EN CHILE Y PODEMOS MANTENER ESO. LA DESCARBONIZACIÓN DE LA MATRIZ ELÉCTRICA Y LA ELECTRIFICACIÓN CRECIENTE ES UNA OPORTUNIDAD CON TECNOLOGÍAS NUEVAS, MÁS EFICIENTES Y LIMPIAS

DE AQUÍ AL 2030 DEBE ESTAR ANUNCIADAS EL CIERRE DE TODAS LAS PLANTAS TERMOELÉCTRICAS A CARBÓN. EL GOBIERNO DARÁ A CONOCER SU PROPUESTA Y VISIÓN PARA TENER A DICIEMBRE DE 2019 UN CRONOGRAMA Y HOJA DE RUTA DEL PROCESO DE DEFINICIONES

EN 2019 SE DEBE IMPULSAR LA REVISIÓN DE LA ESTRATEGIA ENERGÍA 2050 PARA ACTUALIZAR SUS METAS CON OBJETIVOS MÁS AMBICIOSOS EN ERNC, TOMANDO DECISIONES CLARAS EN MATERIAS COMO ENERGÍA NUCLEAR Y CENTRALES HIDROELECTRICAS DE EMBALSE

DUPLICAR LA CAPACIDAD INSTALADA DE PLANTAS
DESALADORAS DE AQUÍ AL 2025

NINGÚN NUEVO PROYECTO MINERO SE REALIZARÁ SIN
QUE EL AGUA QUE CONSUME EN SUS PROCESOS SEA
DE ORIGEN DE PLANTAS DESALADORAS

NO ES ACEPTABLE EL NIVEL DE GASTO EN I+D DE 0,36%
DEL PIB Y SE DEFINIRÁ EL OBJETIVO DE ALCANZAR UN
1% DEL PIB ANTES DEL 2030

SE DEBE DAR PRIORIDAD AL COMITÉ SOLAR Y DE INNOVACIÓN ENERGÉTICO DE MANERA DE QUE SEA UNA POLÍTICA DE ESTADO PRIVILEGIAR EL DESARROLLO DE LA ENERGÍA SOLAR INCLUYENDO SU TECNOLOGÍA Y SERVICIOS ASOCIADOS

EL INSTITUTO SOLAR MINERO, CON LOS FONDOS DEL LITIO, SERÁ DEFINIDO DENTRO DE 2019 PARA LO CUAL SE CREARÁ UNA COMISIÓN DE 10 PERSONAS QUE PROPONGA SU DISEÑO, OBJETIVOS Y CONTROL DE GESTIÓN

NECESITAREMOS EN 2019 INICIAR EN EL CONGRESO NACIONAL LA DISCUSIÓN DE UNA NUEVA LEY DE DISTRIBUCIÓN ELECTRICA QUE ALINEE LOS OBJETIVOS DE EFICIENCIA ENERGÉTICA E IMPULSE LA TAN NECESARIA COMPETENCIA EN ESTE SECTOR

PARA IMPULSAR UNA AGRICULTURA MÁS EFICIENTE Y PRODUCTIVA SE NECESITAN PRIORIZAR LA CONSTRUCCIÓN DE NUEVOS EMBALSES QUE MEJOREN LA CAPACIDAD DE RIEGO Y EN LO POSIBLE SEAN DE DOBLE PROPÓSITO (RIEGO - ENERGÍA)

EL MUNDO SE ESTÁ ELECTRIFICANDO. NECESITAMOS APOYAR EL CONSUMO DE HOGARES PARA CALEFACCIÓN Y COCINA ENTRE OTRAS, CON UNA POLÍTICA DE LEÑA CLARA Y QUE ENFRENTA LA CONTAMINACIÓN AMBIENTAL Y LAS ENFERMEDADES BRONCO-PULMONARES

LA INTEGRACIÓN ENERGÉTICA CON ARGENTINA, PERÚ
Y SINEA SON TAREAS PARA HOY

LA REVOLUCIÓN DE LAS TECNOLOGÍAS Y LOS DESAFÍOS DE ELEVAR NUESTRA PRODUCTIVIDAD OBLIGAN A LAS EMPRESAS A APOYAR LOS ESFUERZOS QUE EL PAÍS NECESITA EN EL CAMPO DE LA EDUCACIÓN TÉCNICO - PROFESIONAL

LA ÚNICA SOLUCIÓN PARA NUESTRA
TRANSFORMACIÓN PRODUCTIVA ES APRENDER A
COLABORAR Y A COOPERAR.

EL ESTADO PUEDE

REVOLUCIÓN
ENER
gÉTIC
CA EN
CHILE



EDICIONES **udp**