

I Seminario Internacional
**Experiencias Energéticas
en Comunidades**



16 de Noviembre 2015
Escuela Baquedano

Organiza:



Auspician:



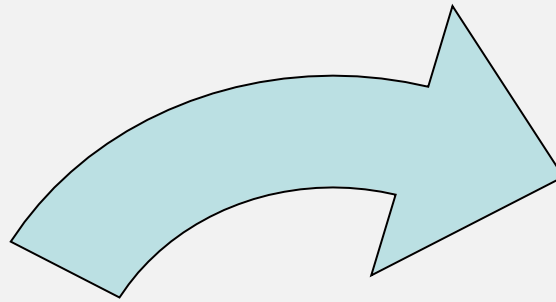
Colaboran:

ENERCOOP

Motives to do the thing
different

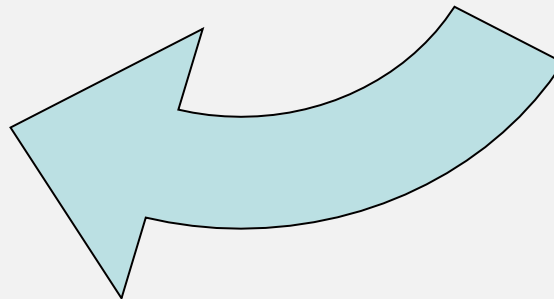
Collective Activity

Comunidades Tecnologías energéticas como imbricación colectiva-técnica-política-cultural



Comunidades
Valores, Significados,
Prácticas

Tecnologías energéticas,
formas políticas de articulación



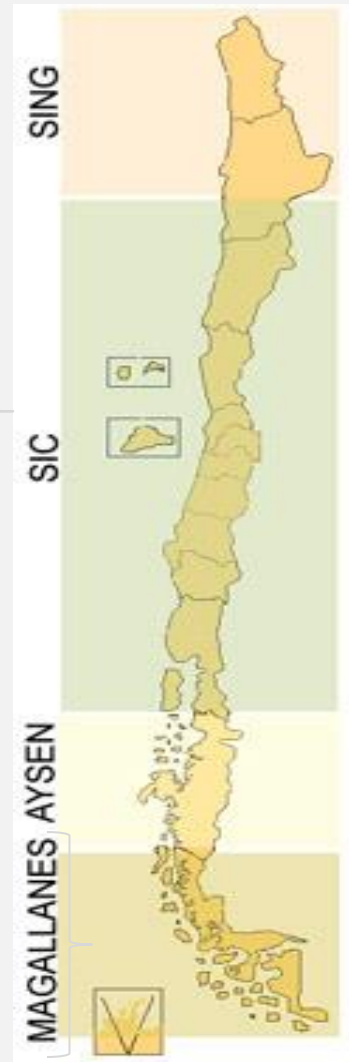
Socio-cultural shapings

- Decentralized, renewable ways, disposed for alternative, non-nuclear technologies, peaceful group led by their own plaintiffs. All of these factors made up the utopia of the counterculture movements of the Seventies.
- Soft Energy Paths (Lovins, 1977).



Chilean electricity networks

Four distribution Systems



Norte Grande Interconected System
Inst. Capac. 3.595 MW
Population: 6,16%
221, 452 MW % población
583,6 [MW/%población]

60% Primary Energy is imported
“Based load” electricity energy:
Hydroelectricity - Dams
Thermal electricity

Electric System of Aysén
Instal. Capac. 33,3 MW
Population: 0,61%
54,59 [MW/%población]

Central inter-conected System
Inst. Capacity 8.273,6 MW
Population: 92,27%
221, 452 MW % población
89,66 [MW/%población]

Electric System of Magallanes
Inst. Capac. 65,2 MW
Population: 0,95%
68,63 [MW/%población]

2. Institutional Perspectives

- Institutional Chilean welfare vision of communities
 - Territories which supply basic modern services
 - Successful rural electricity program '94 (95%) (Opazo, 2012)
 - Visibility of the communities in current politics of Energy Ministry, starting with the demonstrations facing big scale power electricity projects

Social resistances to Big Power Plants -2006 until today

- Oppositions to Coal-Fired Power Plants in the north and center of the country
- Resistance to Hydro-dams power plants in Patagonia
- 97 socio-environmental conflicts surrounding the Human Rights.



Socio-cultural shapings

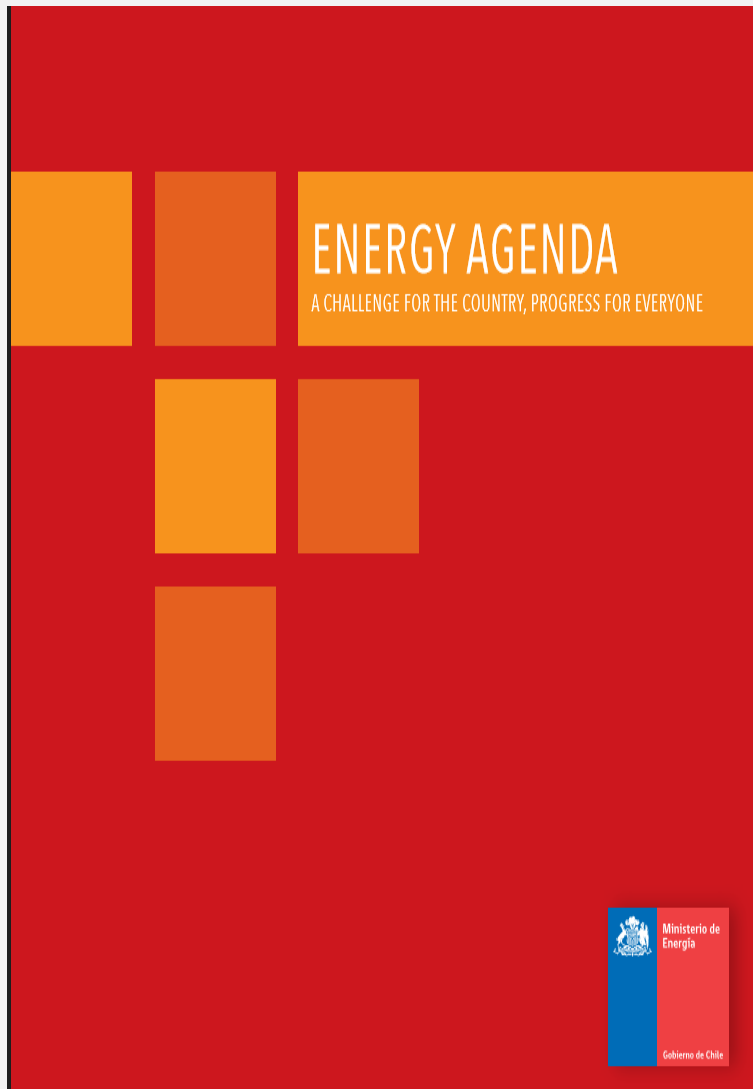
Latin American Critical Thought

Education as a tool for liberation and also to nourish the landscapes of the community, for example through activism against dams and educational practices focused on changing everyday energy and electricity consumption practices.

State Territorialization processes in Patagonia (Romero, 2013).



Regulation and Programs



- **5.5 We will support the development of an Energy Policy for Aysén and an Energy Policy for Magallanes.**
- There are key issues that must be approached in this area: **improving the existing regulations governing the electrical grids of each of these areas**, regulating the natural gas tariffs, and suggesting solutions for the energy used in transportation and industry. Therefore, **we will include a process of technical and participatory discussion in each of these areas for the design of a long- and short- term Energy Policy to ensure a safe energy supply at reasonable costs and making best use of the country's own resources (wind power and minihydraulic energy) and the Energy Efficiency. ... This process will derive from the proposed legislative change to the regulatory framework existing for the Medium Grids in the Electricity Law (ME, 2014).**

Regulation and Programs

Local Energy Strategy (EEL), which considers municipalities to be principal actors.

The Municipality's own resources, outside funds, and the private sector are present in the community. This program, without a doubt, makes the municipality an Enterprise agency, where it counts on:

- A strong component of the market and the search for innovative business models that generate value for the private and citizen sector. A few examples of new business models are energy cooperatives, "ESCO" models, and "crowdfunding" platforms, among others (portal of the Ministry of Energy, 2015).

Funds for energy Access, efficient lighting, a program for energizing the Subsecretary of Regional Development (SUBDERE), the System of Municipal Environmental Certification (SCAM), and the MINVU program of sustainable construction.

Ministros de Energía de Suiza y Chile firman Declaración Conjunta



Firma de Declaración Conjunta

En la instancia, se destacó la importancia de promover el intercambio en materia de hidroelectricidad, eficiencia energética y desarrollo energético de las comunas.

Santiago, 29 de Octubre de 2015.- El Ministro de Energía, Máximo Pacheco, junto a la Ministra de Medio Ambiente, Transporte, Energía y Comunicaciones de la Confederación Suiza, Doris Leuthard, firmaron este mediodía una Declaración Conjunta sobre colaboración en materia de Energías Renovables y fortalecimiento de las estrategias energéticas locales.

Durante la reunión, abordaron diferentes temáticas en materia energética, considerando el enorme potencial de

Ministerio

Ministro

Subsecretaria

Seremis

Objetivos y Funciones

Organigrama

Noticias

Publicaciones

Generales

Regionales

Galería Actividades

Cuenta Pública 2011

Cuenta Pública 2012

Legado Bicentenario

Programas

Reglamentos

Expedientes Administrativos

Tarifas Combustibles Magallanes

Some Comunal and Institucional
experiences focussed on localities

Austria: Viena + Güssing
&
England: Lancaster

Climate Alliance

EN | DE | ES

Home

Celebrating 25 years of the Climate Alliance!

Climate Alliance
A strong community for the global climate

For the last 25 years, Climate Alliance has stood for a holistic approach to climate protection. Its over 1,700 member municipalities throughout Europe have committed themselves to reducing their impacts locally. In recognition of the key role rainforest protection has to play in fighting climate change, these local authorities act in solidarity with the indigenous peoples of the Amazon. Together, they form the Climate Alliance.

European Funds for local Climate Protection

Climate Star **Partnerships**
 Local governments meet the MDGs

News

Climate Alliance takes action on Juncker Investment Plan and the role of the EIB in climate financing

EU Transport Ministers adopt declaration on cycling as climate-friendly mode of transport

Overwhelming endorsement strengthened Covenant of Mayors

Road to Paris

CLIMATE ALLIANCE
The ROAD to PARIS

TTIP and CETA

Activities concerning TTIP an

Members of municipalities work to reach solution in local climate strategies, energy (Renewable energy sources), urban planning, energy, transport (e-mobility center), waste management, and reduction of CO₂ emissions.

Climate Alliance



Figure: In climate alliance meeting. Michael Ornetzeder, Cristian Parker, Peter Molner.

Small or big enterprises collaborated in schools programs to develop activities that improve the knowledge on climate change (300 activities per year) in school communities.

Moreover training courses includes the participation of Majors too.



Figure: Welcome material in European Center for Renewable Energy (EEE in german)
Güssing



Figure: European energy smart cities delegation visiting Güssing Center



Figure. Expositor showing the plantation (1 ha) to food biogas electricity power plant.



Figure: Organic material classified to food biomass biogas electricity plant



Biomass power plant
77 households

Figure: walking around biogas digester, part of biogas electricity plant.

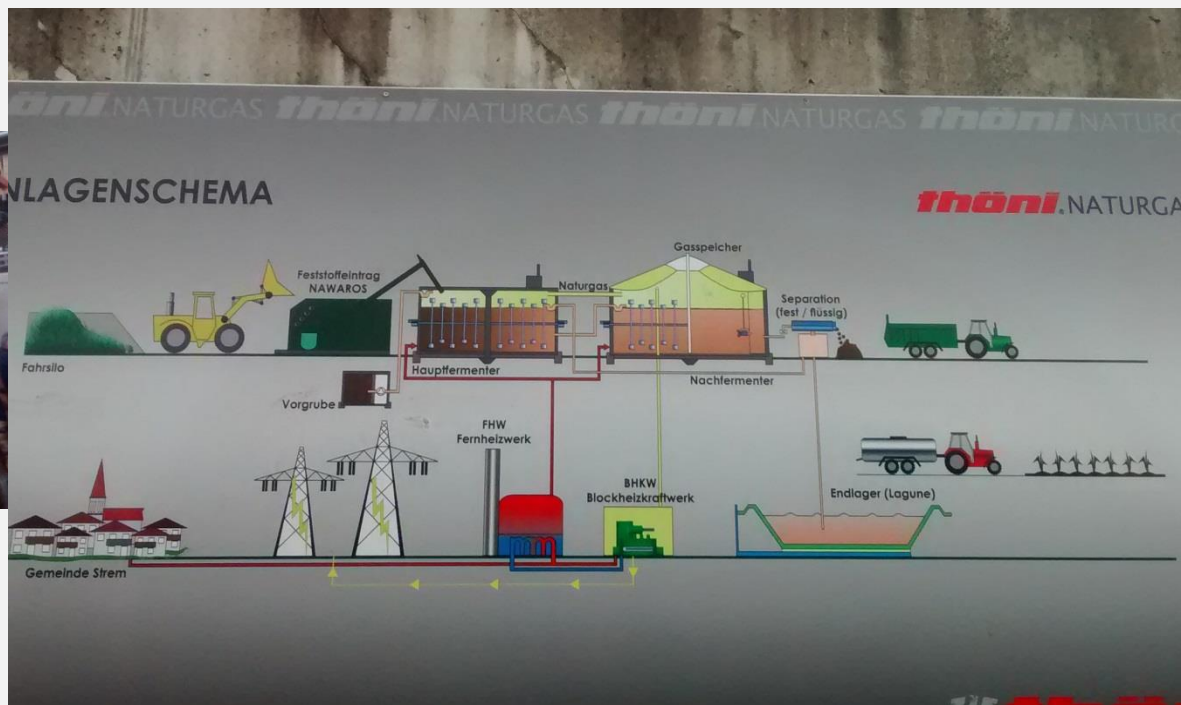




Figure: One of the finger pickin' growing herbs lying in one of the most transit place of the campus



Figure: Representant of student's union explained us the project Green Lancaster



Figure: apple trees planted from Green Lancaster and PV panels in roof of installations.



Some Chikens posing for us



The earth oven constructed for EcoHub meetings.



Signs welcome the Halton mills co-housing



Chips for heating plant



Electric cards park in co-housing



Bicycle garage of co-housing



Meals for week beginning: 11th Oct

Day	PLAN	SHOP	COOK	HELP	CLEAN	Menu	CH events today
Mon 1							
Tues 2	PLAN	SHOP	COOK	HELP	CLEAN		
Wed 3	PLAN	SHOP	COOK	HELP	CLEAN	1/2 meal (have been cooked) + 1/2 meal (have been cooked) + 1/2 meal (have been cooked)	
Thurs 4	PLAN	SHOP	COOK	HELP	CLEAN		
Fri 5	PLAN	SHOP	COOK	HELP	CLEAN		
Sat 6	PLAN	SHOP	COOK	HELP	CLEAN		
Sun brunch	PLAN	SHOP	COOK	HELP	CLEAN		
Sun pm	PLAN	SHOP	COOK	HELP	CLEAN		

Meals for week beginning: 18th Oct

Day	PLAN	SHOP	COOK	HELP	CLEAN	Menu	CH events today
Mon 9							
Tues 10	PLAN	SHOP	COOK	HELP	CLEAN	1/2 meal (have been cooked) + 1/2 meal (have been cooked)	
Wed 11	PLAN	SHOP	COOK	HELP	CLEAN		
Thurs 12	PLAN	SHOP	COOK	HELP	CLEAN		
Fri 13	PLAN	SHOP	COOK	HELP	CLEAN		
Sat 14	PLAN	SHOP	COOK	HELP	CLEAN		
Sun brunch	PLAN	SHOP	COOK	HELP	CLEAN		
Sun pm	PLAN	SHOP	COOK	HELP	CLEAN		

Meals for week beginning: 25th Oct

Day	PLAN	SHOP	COOK	HELP	CLEAN	Menu	CH events today
Mon 15							
Tues 16	PLAN	SHOP	COOK	HELP	CLEAN		
Wed 17	PLAN	SHOP	COOK	HELP	CLEAN		
Thurs 18	PLAN	SHOP	COOK	HELP	CLEAN		
Fri 19	PLAN	SHOP	COOK	HELP	CLEAN		
Sat 20	PLAN	SHOP	COOK	HELP	CLEAN		
Sun brunch	PLAN	SHOP	COOK	HELP	CLEAN		
Sun pm	PLAN	SHOP	COOK	HELP	CLEAN		

Activity plan for each week



Hydro turbine for local community project



Installations of the micro-hydro power plant

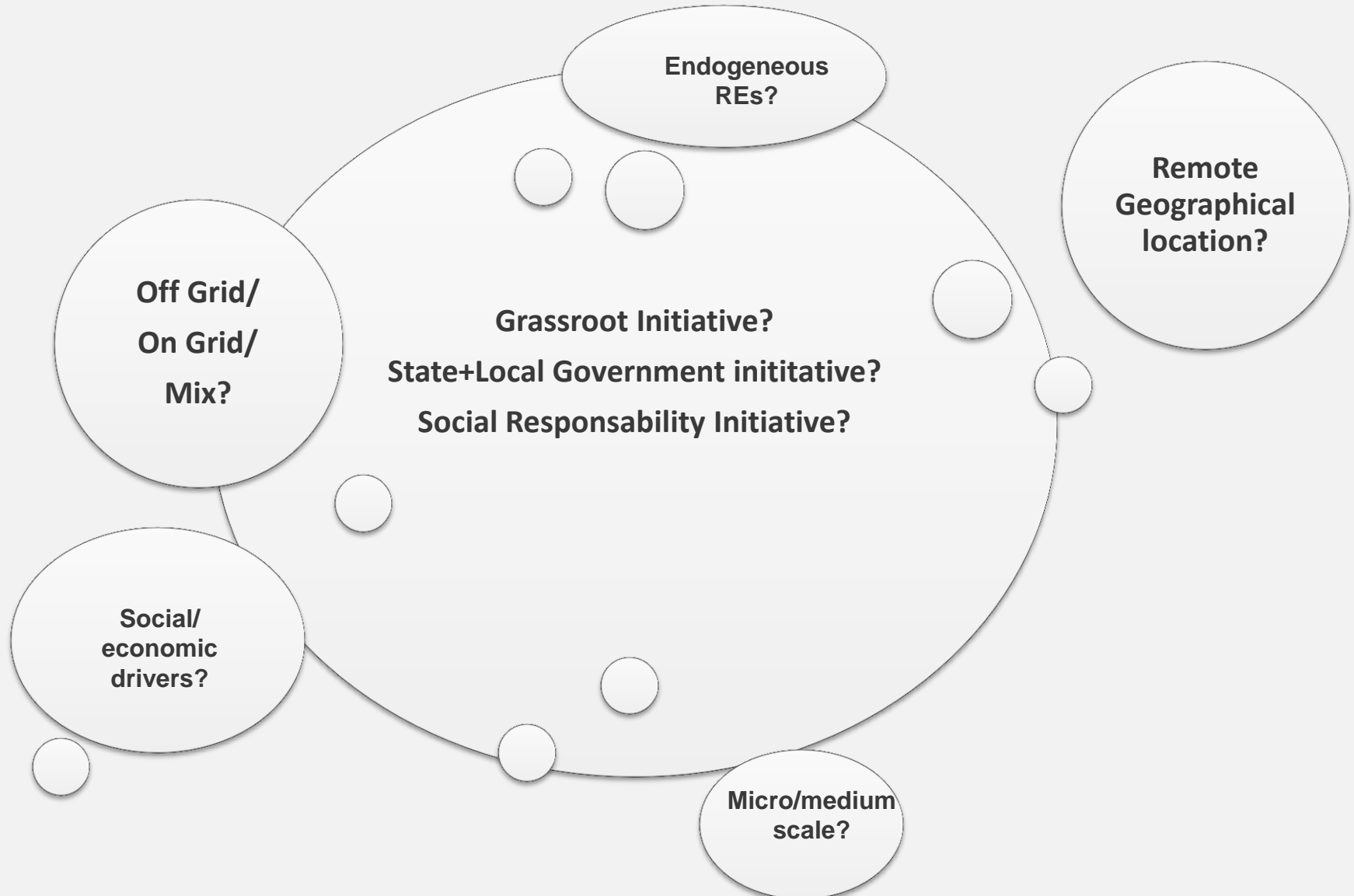


Common places along the Low river



Living room communal places

Isolated Energy Communities

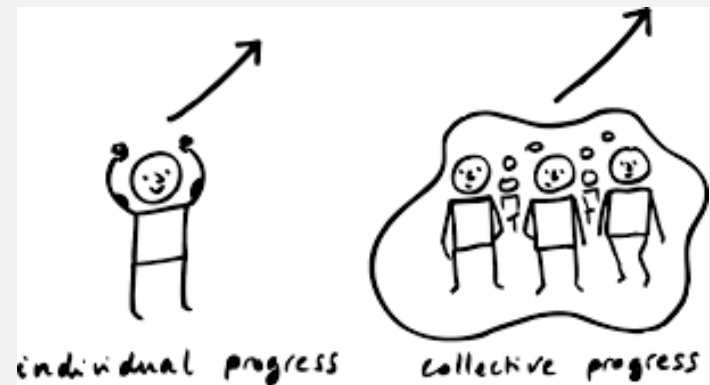


Conclusion remarks

- Experiences of Energy Communities started from the margin to transform the center
- Educational, technical expertise, material and maintenance of artifacts and systems.
Energy Assessments.
- Energy heating and isolation -> electricity -> mobility
- Grassroot innovation sources.

Conclusion remarks

- The collective work is needed to care
 - Technology – the scale of intervention.
 - The ownership of the projects
 - Importance of negotiation and participation



<http://adaptivepath.org/ideas/culture-and-design-collective-versus-individual-progress-2/>



Comunidades Energéticas Aisladas

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PROYECTO DE INVESTIGACIÓN

Proyecto financiado por la Comisión Nacional de Investigación Científica y Tecnológica (**CONICYT**), ganador del concurso "Apoyo a la formación de redes internacionales entre centros de investigación", en la convocatoria de 2014.



CENTROS DE INVESTIGACIÓN

Investigación conjunta del Instituto de Estudios Avanzados (**IDEA**) de la Universidad de Santiago de Chile, The Austrian Academy of Science (**OeAW**) del Institute of Technology Assessment de Viena y The Lancaster Environment Center (**LEC**) de la University of Lancaster del Reino Unido.

www.comunidadesenergeticas.com



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Primer encuentro, reunión del 17 de marzo de 2015.

20 mayo, 2015 / 1 Comentario / en News / por admin

El pasado 17 de marzo, tuvo lugar en Santiago, el primer encuentro de parte del grupo de investigación del Proyecto Comunidades Energéticas Aisladas. El acta dónde se pueden ver los asistentes y contenidos de la reunión, están disponibles [aquí](#).

