

Envisioning a socio-technical transformation with people at the center: The experience of energy sector policy in Chile

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The Chilean energy context

- No indigenous fossil fuels, lots of renewable energy resources
- Unbundled liberalized electricity system since 1982, one of the first countries in undergoing liberalization



Energy transition to renewables







Carbon neutrality by 2050 & projections for the energy transition



Digitalization-context in terms or energy

Infrastructure	Security	Economic	Regulatory	Human capital
 The use of smart meters is not massified, neither distributed generation appl. Started reforms on the 	 Lack of defined regulation and protocols for privacy, data sovereignty and information security 	 Lack of economic incentives for implementation and deployment High investment cost 	 Several applications require a modification or update of the current regulation 	 Lack of training and need of new skills, knowledge and digital education
communications and management side of the system				

Energy sector faces the big challenge of moving towards an end-user-centric paradigm, taking advantage of the opportunities given by digitalization

Learning from a first smart-meters' experience

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- The way in which we
 communicate a solution is
 very important for policy
 success
- It is necessary for people to percieve the benefits of

policies

Updating process of our long-term energy policy: participation is key

- We want our policy to be rooted on people's needs and address them
- People need to be part of the diagnosis, as well as on weighting prospective solutions
- People need to be part of the implementation of energy policies: for policies to be appropriated it is key to integrate actors in the policy design process



Key messages for the digitalization strategy from the participatory process

In the long-run, public policy should aim...

On electricity systems:

- Empowered users: Public policy should guarantee that all users of electricity are able to make informed decisions

 —as we focus on what we want in the long run, we do not choose a specific technology
- Electricity systems: accessible, flexible, sustainable and reliable for opening-up more interaction spaces with users

On information:

- Public policy should guarantee the access of energy information for people, public and private institutions
- Developing regulation for coordination, cooperation and security
- Continuous data collection and management processes

Digitalization: what are we doing now?

• Focusing on developing regulation for addressing **communication systems** and **information**

management systems before we go back to the needed metering equipment

And when we tackle that again we want to **make sure the benefits of our** policies for people are as much apparent as possible

- **Regulation reform** for allowing for **electricity retailing** and associated services
- Our approach to help unleash distribution systems and digital applications focuses on identifying barriers that prevent their adoption and deployment
- On information: developing information management and communication systems at ISO level

What comes next? Policy recommendations

To take a more active approach:

- Promote articulation between the different institutions
- Increase public investment in digital infrastructure, build ICT infrastructure
- Define a common data architecture, tools, and standards for interoperability and raise the quality, reliability, and security of devices and services
- Reduce the digital gap among the different territories of the country
- Policies to increase investment in human resources and education
- Pilot programs to promote the use of digital applications
- **Encourage investment** by private parties in digitization projects



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