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Document Version Final published version

Link to publication record in Manchester Research Explorer

Citation for published version (APA):

Gaete Morales, C., Gallego Schmid, A., Stamford, L., & Azapagic, A. (2015). Identifying sustainable electricity options for Chile.

Citing this paper

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4,969 MW

SING

15,128 MW



Identifying sustainable electricity options for Chile

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text

- The electricity system in Chile is ulletdominated by fossil fuels (Figs. 1&2) which are largely imported¹.
- As a result, electricity costs have

2. Aim and scope

- To assess the sustainability of current electricity system in Chile and identify pathways for its sustainable development in the future.
- The scope is from 'cradle to grave', considering

been increasing together with its consumption¹⁻³ (Figs. 3&4).

- This also affects energy security and increases climate change as well as
 - other environmental impacts.
- Therefore, more sustainable options need to be identified for a future electricity system in Chile.

Fig. 1. Location of electricity systems in Chile and their installed capacity in 2014 (3).



extraction of fuels and materials, electricity

generation and construction and decommissioning of electricity plants.

A range of current and future electricity

technologies and scenarios will be considered.

3. Methodology

Selection of sustainability indicators

Selection and specification of technologies

Fig. 2. Electricity mix in Chile in 2014 (3).









Fig. 4. Electricity consumption trends in Chile (3).

Multi-criteria decision analysis

Fig. 5. Methodology for sustainability assessment of electricity (4).

www.sustainable-systems.org.uk

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Acknowledgments

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