



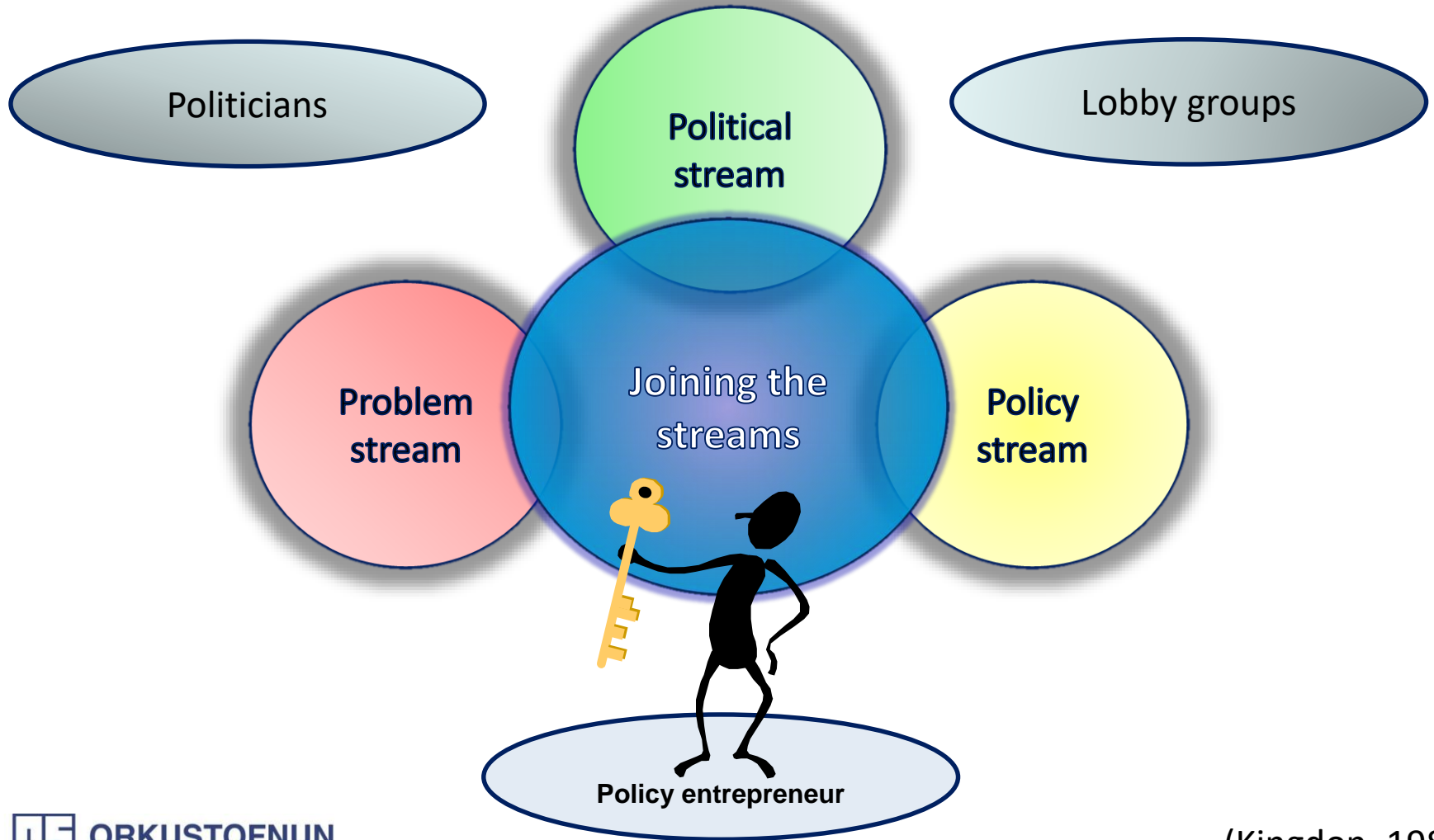
**WINDOW OF
OPPORTUNITY**



**Geothermal based district heating
supported by EEA Grants**

Jónas Ketilsson
Deputy Director General
National Energy Authority

The window of opportunity!



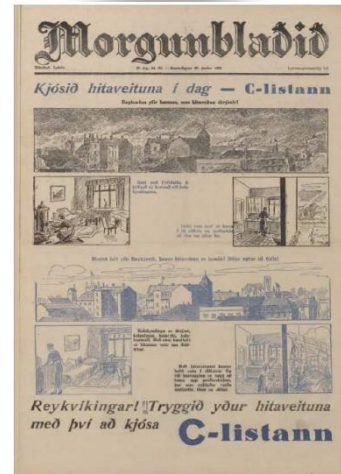
What examples do we have for geothermal based district heating?

Problem stream



**WW1 & Great Frost
Winter 1918**

Political stream



**Reykjavik elections 1938
(1 year before WW2)**

Policy stream

**1953
State Finance Secured
by Parliament**

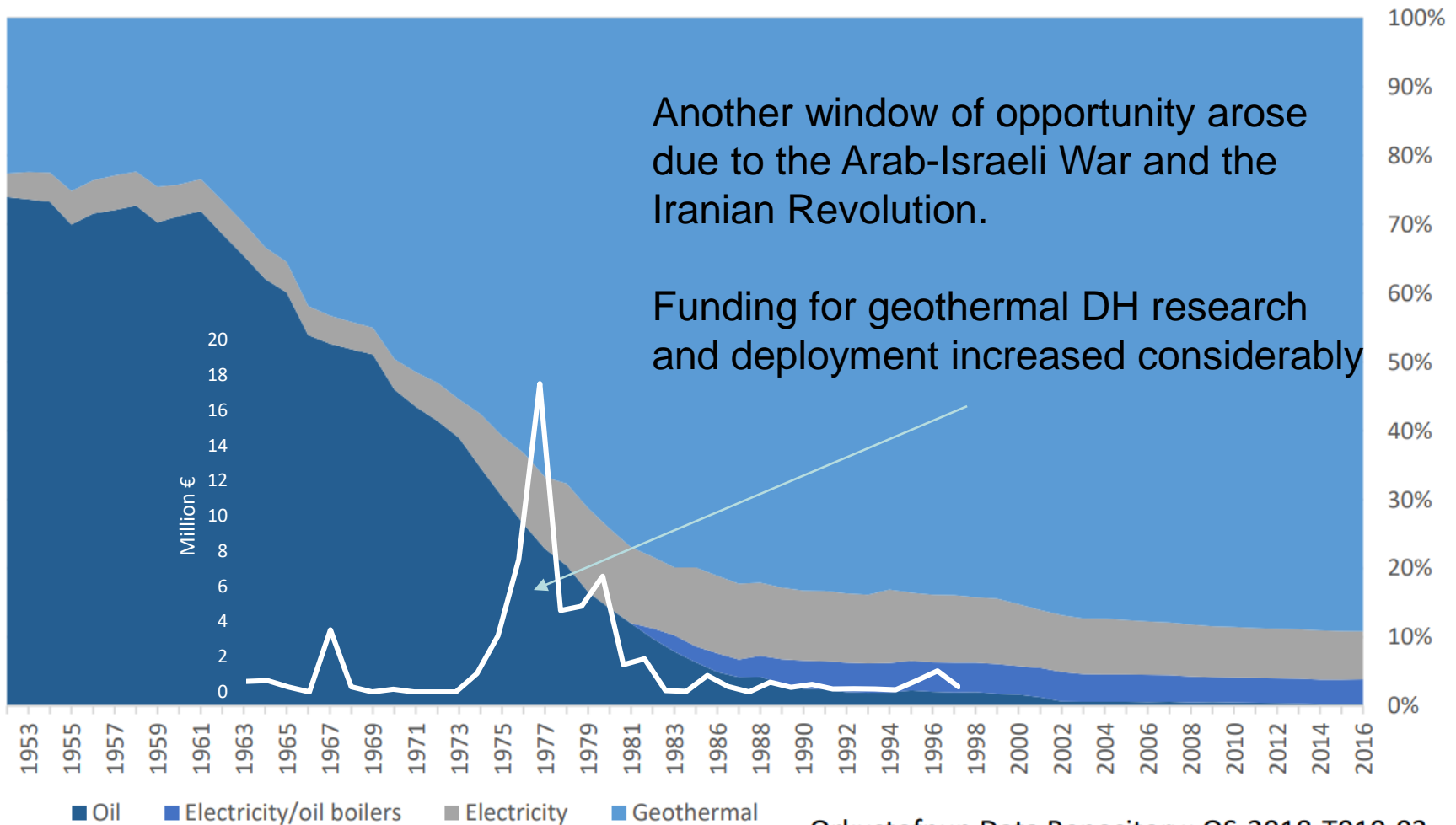
The parliament passed a law allowing the state to finance up to 80% of the total investment cost of drilling and building a DHS outside of the capital area.

A typical family spends less than 1% of their income on heating in Iceland



Results of the Policy

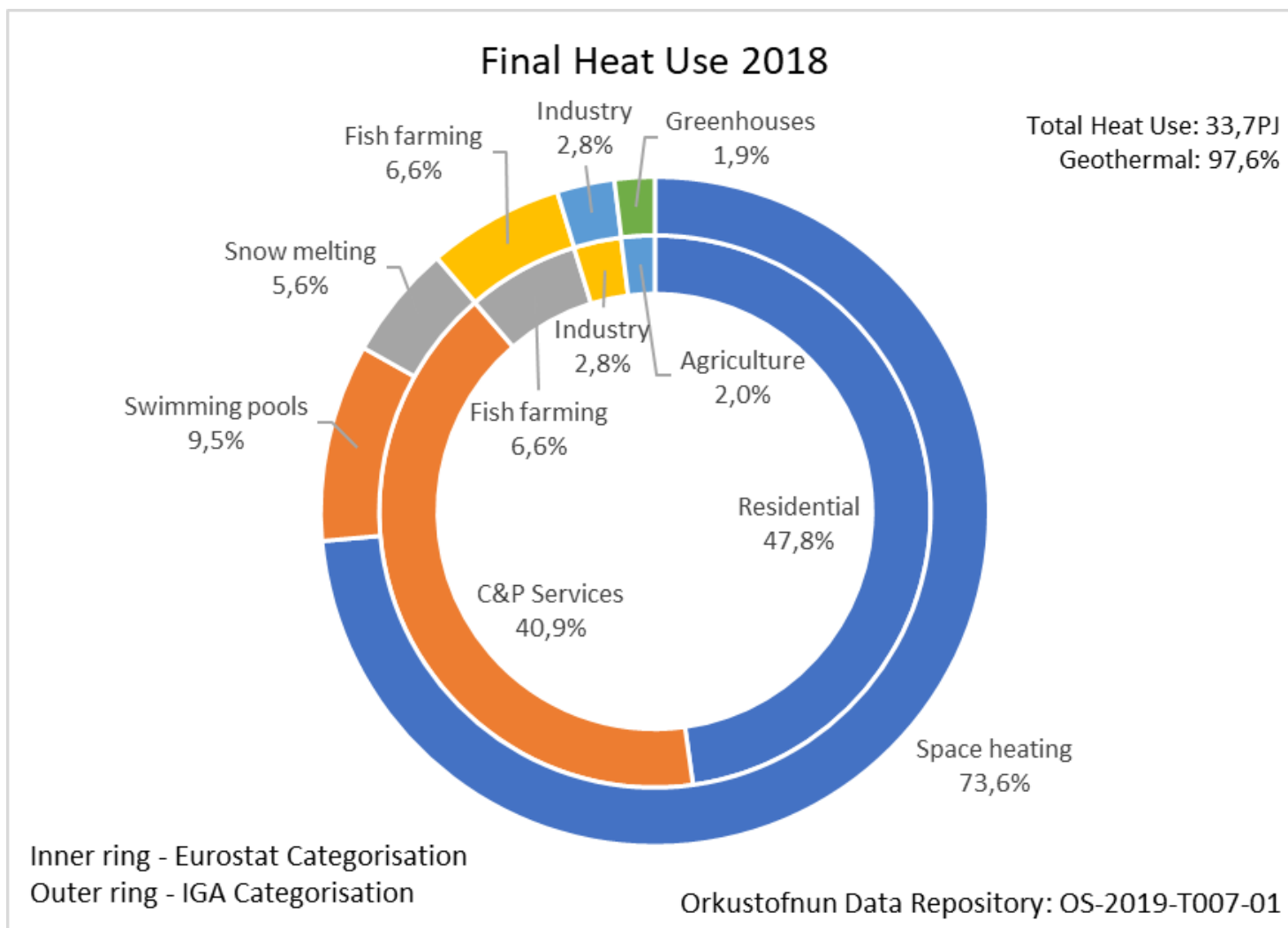
Space heating by energy source



Another window of opportunity arose due to the Arab-Israeli War and the Iranian Revolution.

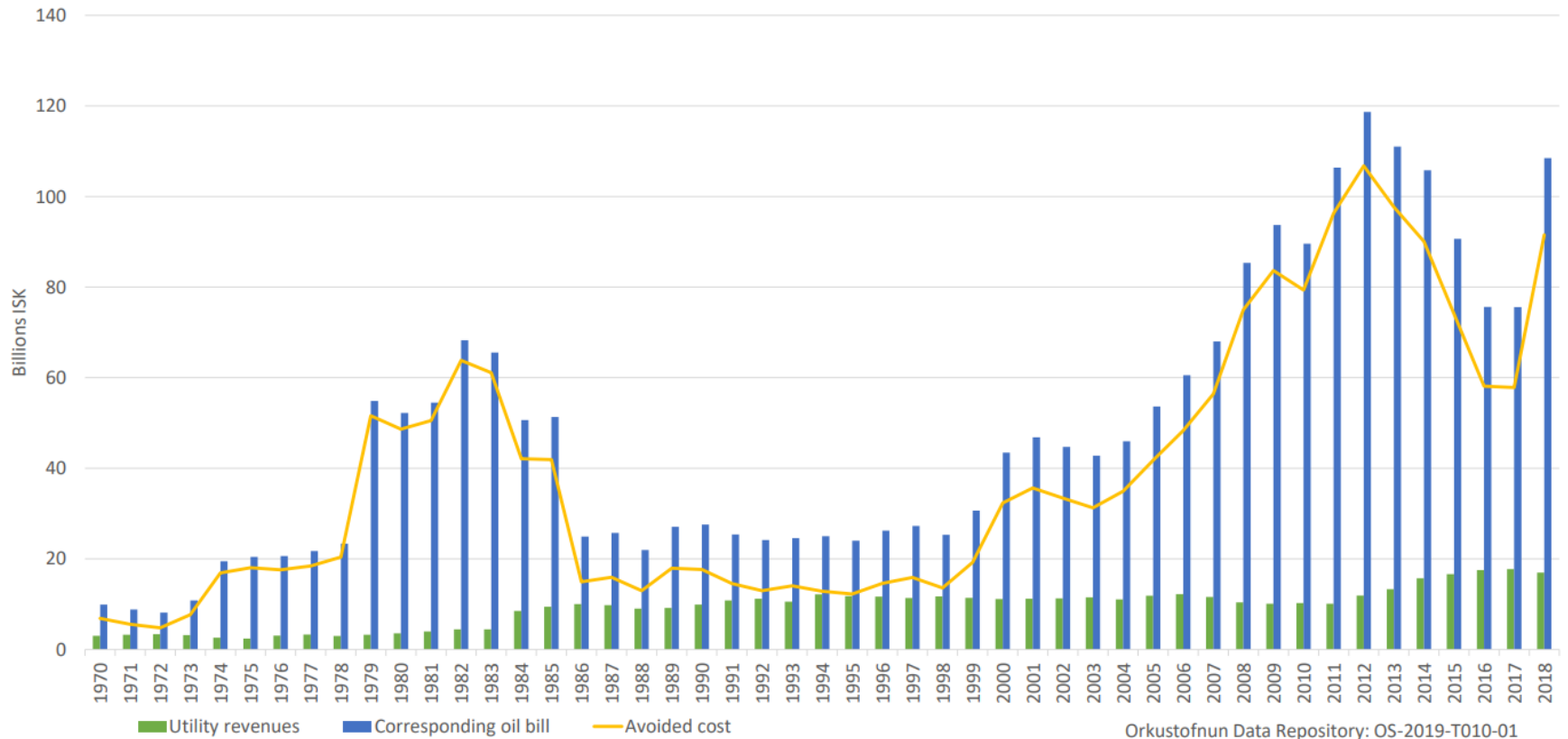
Funding for geothermal DH research and deployment increased considerably

Final Heat Use 2018



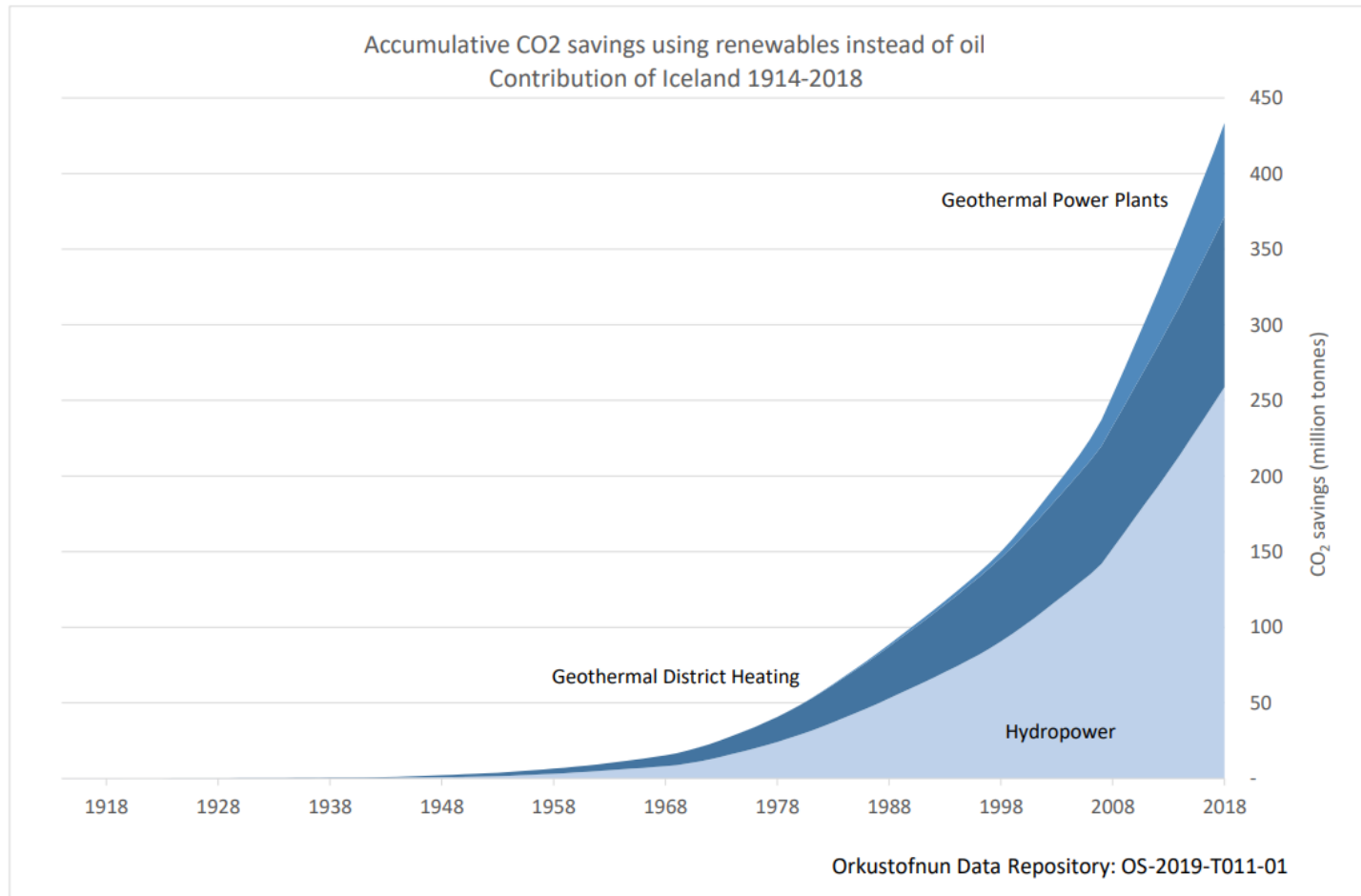
Avoided Cost

Economic benefits of using geothermal energy instead of oil for space heating in Iceland



Orkustofnun Data Repository: OS-2019-T010-01

Accumulative CO₂ savings using renewables instead of oil



Any more recent examples for a window of opportunity?

Problem stream



**Russia-Ukraine
Gas Disputes**

Political stream



**Gas Shortage
in 2006, 2008 and 2009**

Policy stream



**EU Energy Policy towards
higher energy independence
and greener solutions**

When does an idea's time come?

Within EEA Grants?



Hungary

Poland Bulgaria Romania

MoU

Concept Note

PIA

Call for Proposals

Project Selection

Follow up

Terceira Geothermal Power Plant



Kiskunhalas Geothermal District Heating



Lets Enhance our Bilateral Relations

