

Our Low Carbon Future

Kynningarfundur um skýrslu Alþjóða orkumálaráðsins,
föstudaginn 10. júní

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Ljósmynd GAJ 2015



Orkustofnun - The Icelandic National Energy Authority

A body directly under the Ministry of Industries and Innovation

**Advising the government and the public on energy issues
Public administration of energy and mineral resources utilisation**

Licencing research, exploration and operation of hydro-, and geothermal power

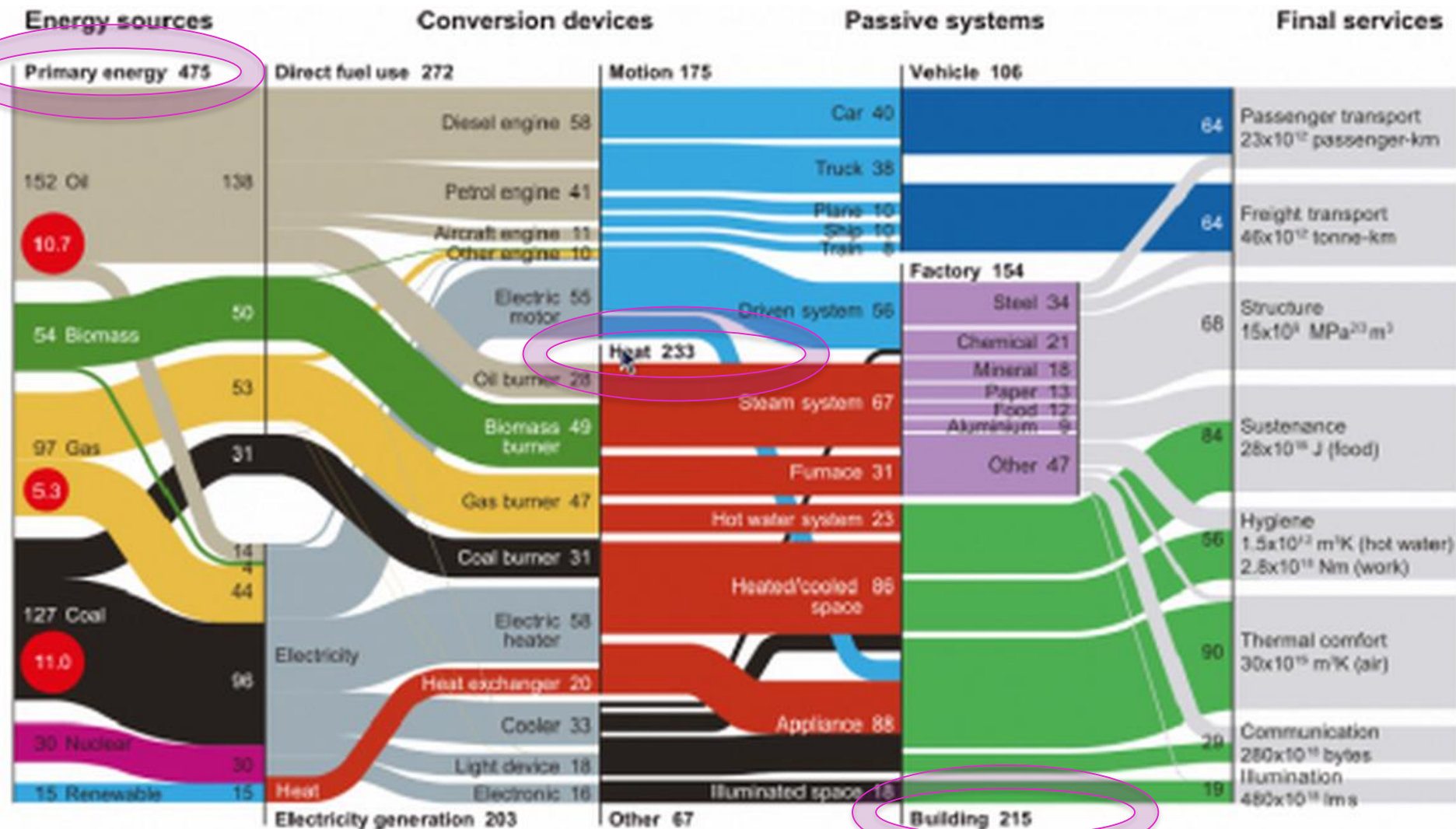
Regulator for the electrical grid

Licencing exploration and extraction of oil and gas

Licencing exploration and mining of mineral resources

Host organisation for the UNU geothermal training program in Iceland

Global Primary Energy Use 2006



Annual global flow of energy in 2005, EJ [10¹⁸ joules]

Annual global direct carbon emissions in 2005, Gt CO₂ [10⁹ tonnes of CO₂]

Energy Quality Management

Global EQM Potential

Total Primary
energy use
475 TWh

Heating 233 TWh

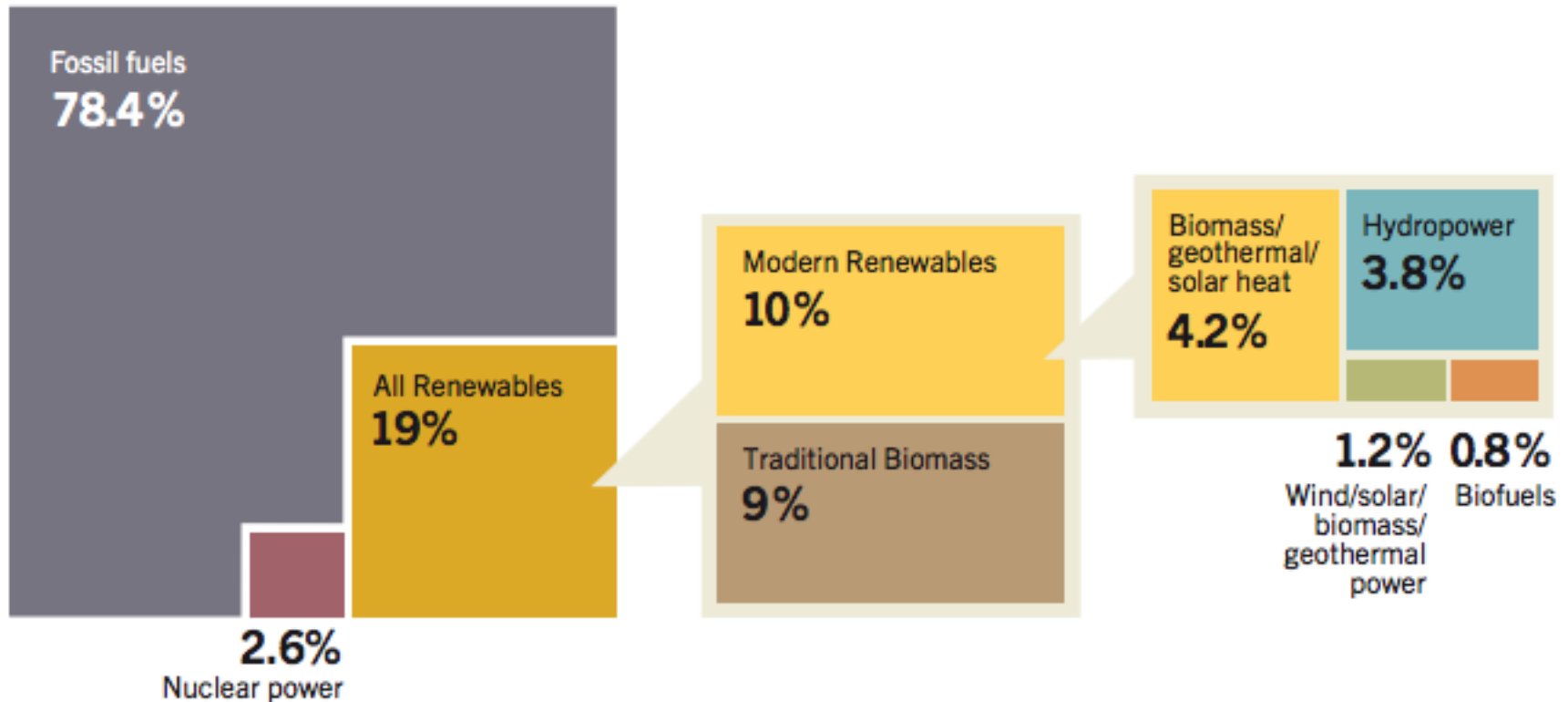
Saving potential by
Energy Quality
Management
150 TWh?

2006 values

Total coal burning
127 TWh

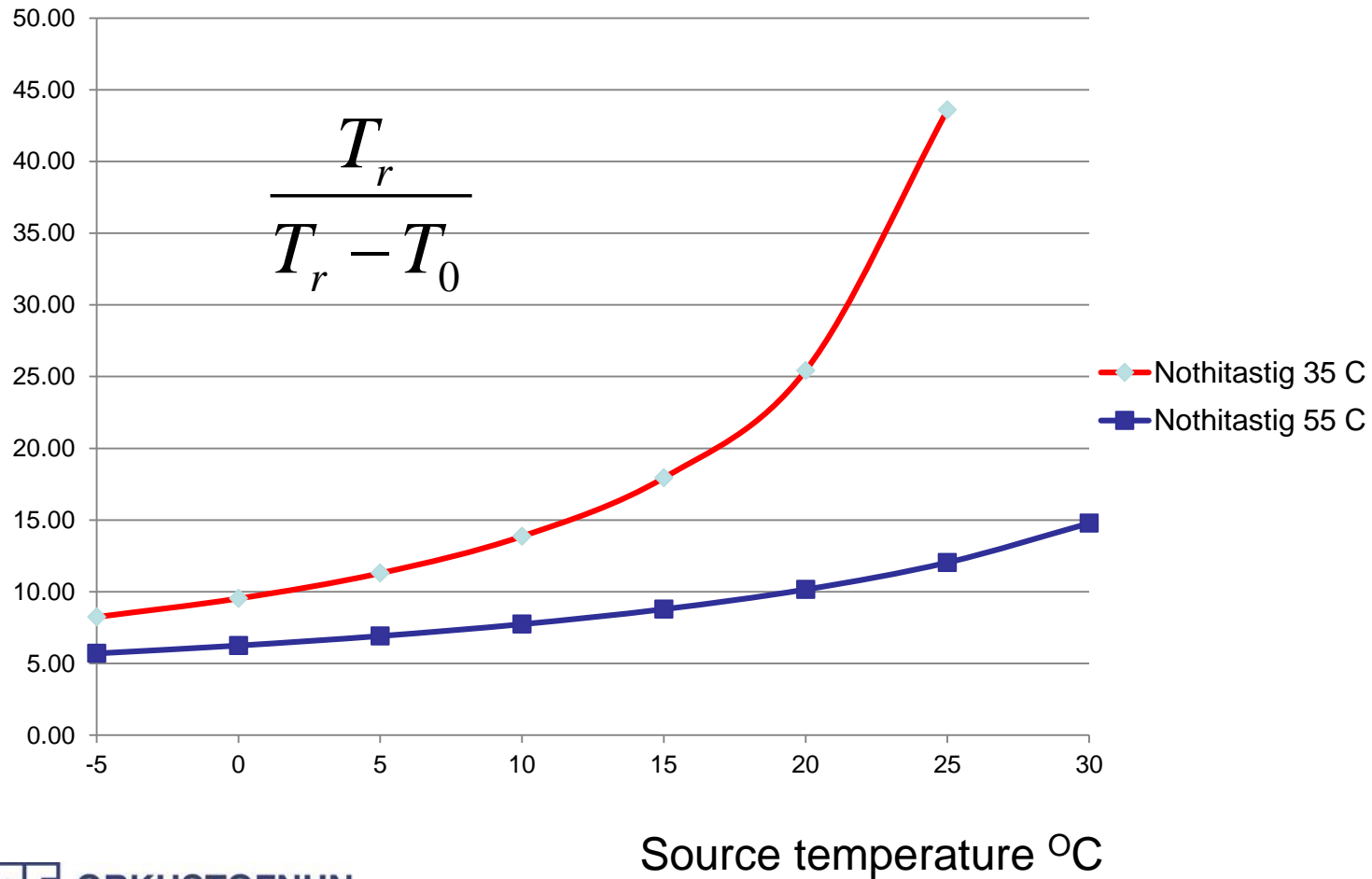
Use

Figure 1. Estimated Renewable Energy Share of Global Final Energy Consumption, 2012

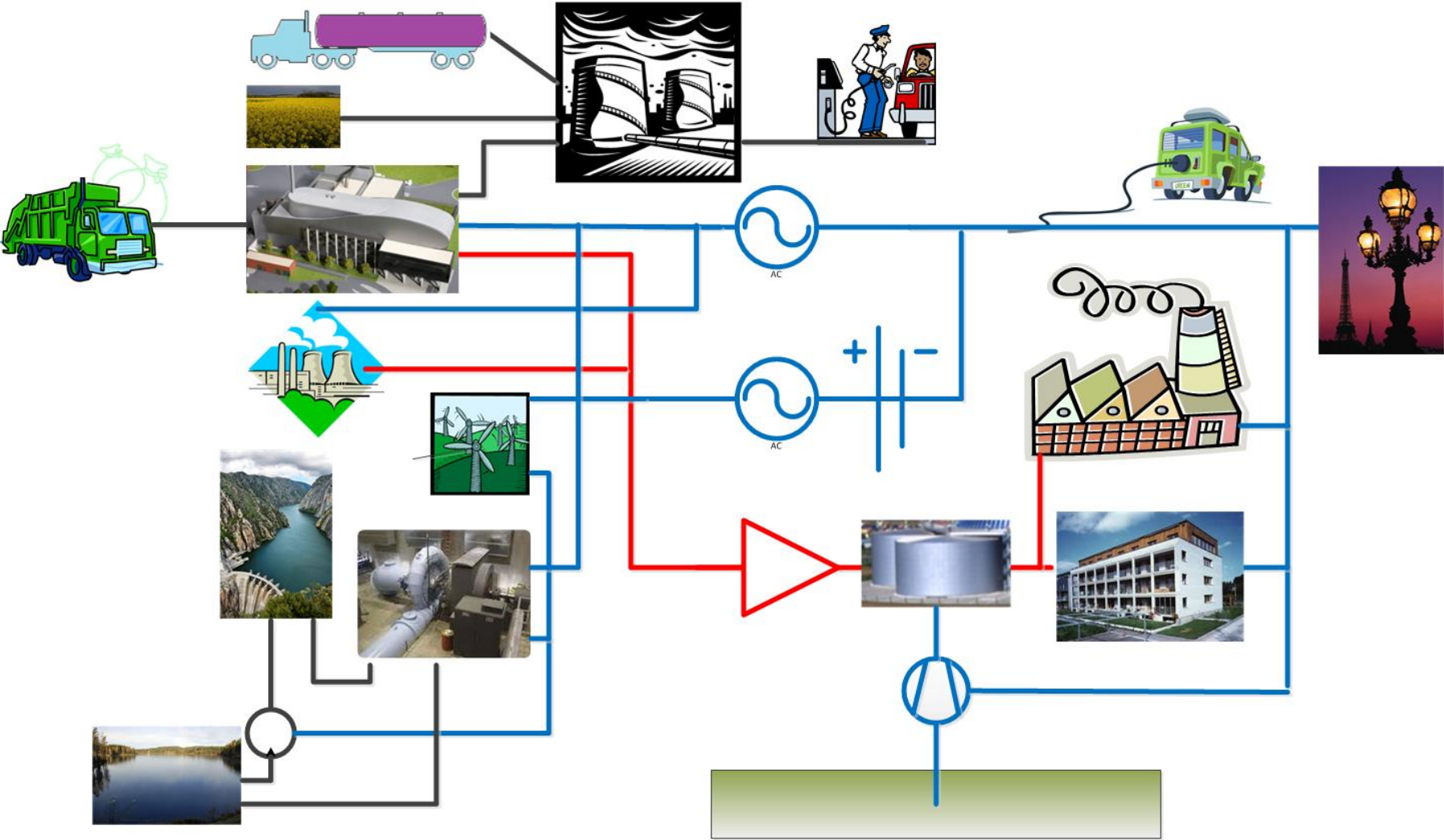


REN21. 2014. *Renewables 2014 Global Status Report* (Paris: REN21 Secretariat).

Heat pump – highest theoretical COP

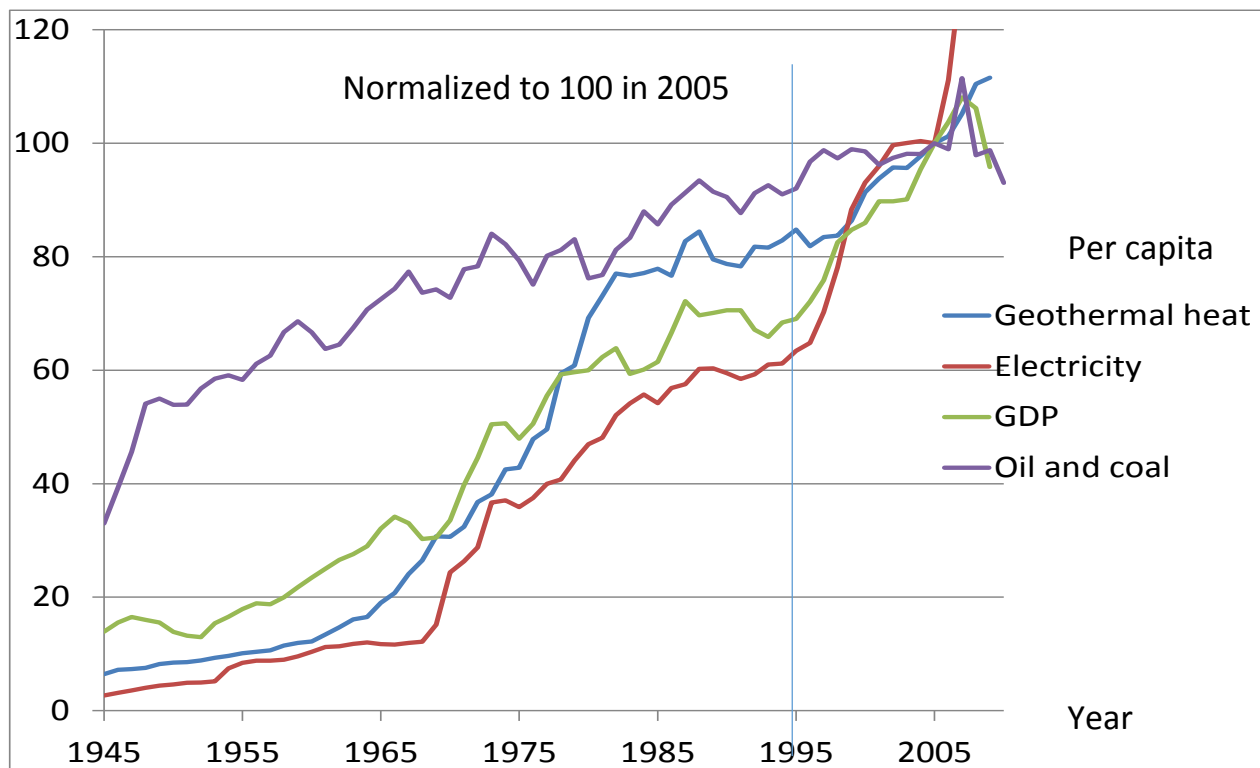


Energy Quality Management Community Level



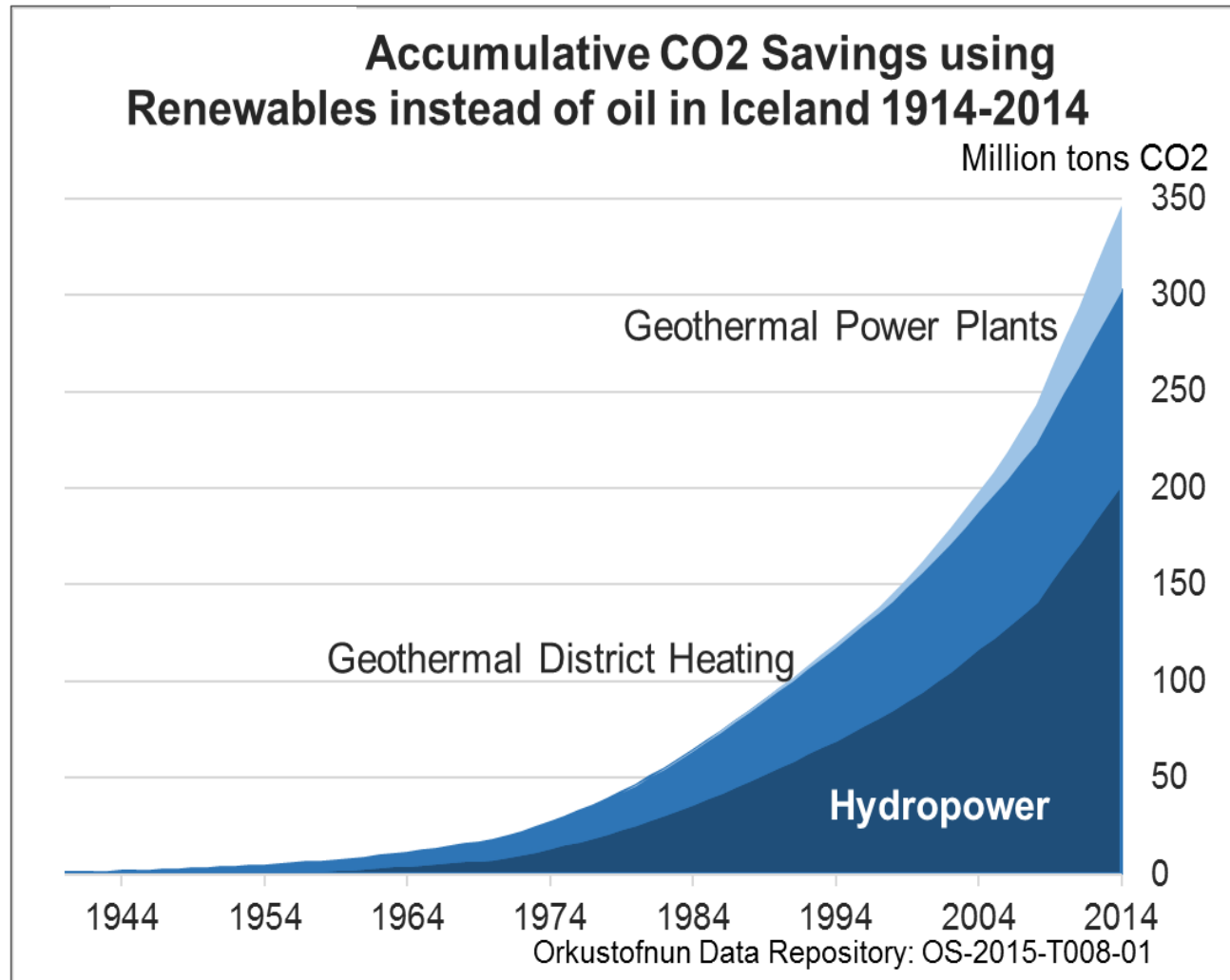
Energy and Economic Growth Iceland 1945-2005

<http://www.os.is/>

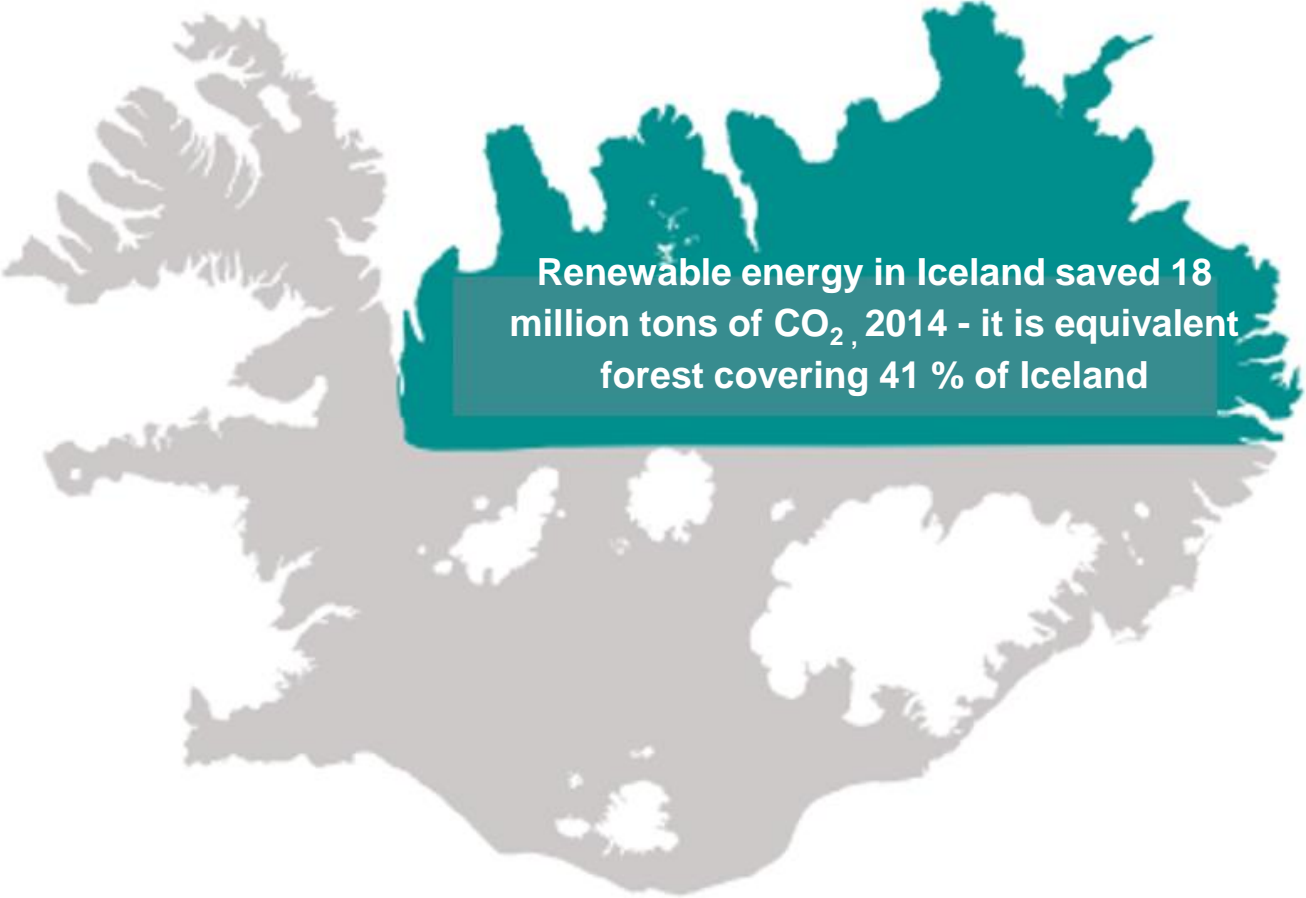


<http://www2.stjr.is/frr/thst/rit/sogulegt/english.htm>

The Icelandic Renewable Energy System – Accumulated CO2 Savings 1914 - 2014



Renewable Energy and CO₂ Savings

A map of Iceland is shown in a light grey color. A teal-colored overlay covers the northern and central parts of the island. A white text box is centered within this teal area, containing the following text:

Renewable energy in Iceland saved 18 million tons of CO₂, 2014 - it is equivalent forest covering 41 % of Iceland

Thank you

