ORKUSTOFNUN

**Efni/Subject:** Talnaefni Orkustofnunar / Orkustofnun Data Repository
**Titill/Title:** Frumorkunotkun jarðhita í fiskeldum 2015 / Geothermal Primary Energy Use in Fish Farming 2015
**Lykilorð/Keyword:** Frumorkunotkun, jarðhiti, fiskeldi / primary energy use, geothermal, fish farming
**Auðkenni/Identifier:** OS-2017-T001-01
**Útgáfudagur/Date:** 21.2.2017
**Síðast uppfært/Last edition**
**Höfundur/Creator:** Orkustofnun
**Tímabil/Period:** 01.01.2015-31.12.2015
**Tilvísun:** Orkustofnun (2017). *OS-2017-T001-01: Frumorkunotkun jarðhita í fiskeldum 2015*
**Citation:** Orkustofnun (201). *OS-2017-T001-01: Geothermal Primary Energy Use in Fish Farming 2015*

*Tafla 1: Frumorkunotkun jarðhita í fiskeldum, unnið af framleiðslufyrirtækjum 2015*

| Eldisstöð | Staðsetning | Tegund fiskeldis | Fisktegund 1 | Fisktegund 2 | Leyfileg framleiðsla skv. rekstrarleyfi Fiskistofu [tonn] | Rennsli [l/s] | Hitastig [°C] | Frumorkunotkun jarðhita* [TJ] |
|---|---|---|---|---|---|---|---|---|
| Jöklableikja | Hali í Suðursveit | Matfiskur | Laxfiskar | Bleikja | 20 | 20,0 | 17,0 | 12,6 |
| Dýrfiskur | Norður Botn | Seiðaeldi | Laxfiskar | Lax / Bleikja | 200 | 60,0 | 23,0 | 70,4 |
| Fjallableikja | Hallkelshólar | Seiðaeldi/Matfiskur | Laxfiskar | Bleikja | 100 | 3,0 | 75,0 | 17,2 |
| Hafrannsóknarstofnun | Grindavík - Staður | Eldistilraunir | Ýmsar tegundir | Ýmsar tegundir | 20 | 2,0 | 65,0 | 9,8 |
| Háafell | Nauteyri | Seiðaeldi | Laxfiskar | Lax / Bleikja | 200 | 20,0 | 43,0 | 59,2 |
| Íslandsbleikja | Núpar | Seiðaeldi | Laxfiskar | Lax / Bleikja | 150 | 10,0 | 100,0 | 78,0 |
| Íslandsbleikja | Öxarfjörður | Matfiskur | Laxfiskar / Flatfiskar | Lax / Bleikja / Sandhverfa / Lúða | 1.600 | 68,0 | 35,0 | 152,8 |
| Íslandsbleikja | Öxarfjörður | Matfiskur | Laxfiskar / Flatfiskar | Lax / Bleikja / Sandhverfa / Lúða | ^ | 72,0 | 18,5 | 55,3 |
| Íslandsbleikja | Öxarfjörður | Matfiskur | Laxfiskar / Flatfiskar | Lax / Bleikja / Sandhverfa / Lúða | ^ | 145,0 | 10,2 | - |
| Íslandsbleikja -Staður | Grindavík - Staður | Matfiskur | Laxfiskar | Lax | 1.600 | 8,0 | 65,0 | 39,0 |
| Laxeyri | Húsafell | Seiðaeldi | Laxfiskar | Lax | 100 | 10,0 | 70,0 | 53,1 |
| Laxeyri | Laxeyri | Seiðaeldi | Laxfiskar | Lax | | 8,0 | 70,0 | 42,4 |
| Rifós | Rifós | Seiðaeldi | Laxfiskar | Lax / Bleikja | 1.000 | 10,0 | 10,0 | - |
| Veiðifélag Laxá í Kjós | Laxá í Kjós | Seiðaeldi | Laxfiskar | Lax | | 2,8 | 19,0 | 2,3 |
| Tungusilungur | Tálknafjörður | Matfiskur | Laxfiskar | Bleikja | 200 | 56,0 | 10,0 | - |
| **Samtals** | | | | | **5.190** | **495** | **-** | **592** |

*Frumorkunotkun er reiknuð stærð miðað við uppgefið rennsli og hitastig niður að 10°C.

*Table 1: Geothermal primary energy use produced by Autoproducers and used in fish farming 2015*

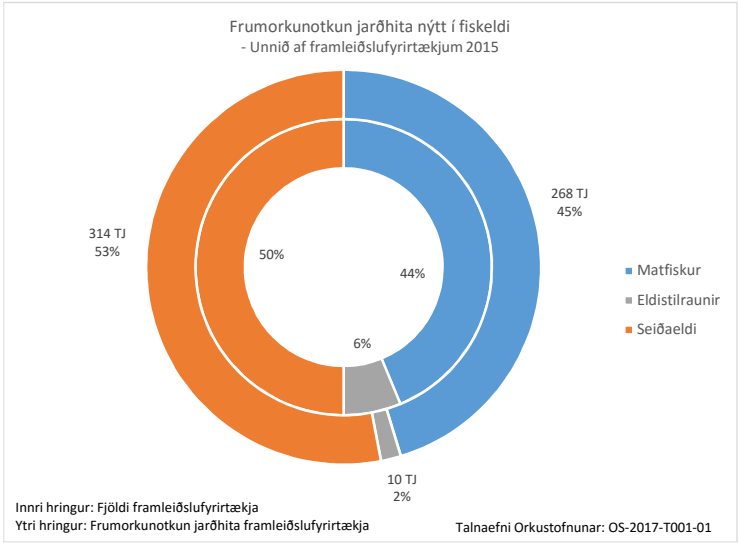
| Fish Farming Company | Location | Type of fish farming | Species 1 | Species 2 | Permitted production [tonne] | Water flow [l/s] | Temperature [°C] | Primary Energy Use* [TJ] |
|---|---|---|---|---|---|---|---|---|
| Jöklableikja | Hali í Suðursveit | Food fish | Salmonidae | Arctic charr | 20 | 20,0 | 17,0 | 12,6 |
| Dýrfiskur | Norður Botn | Hatchery | Salmonidae | Atlantic salmon / Arctic charr | 200 | 60,0 | 23,0 | 70,4 |
| Fjallableikja | Hallkelshólar | Hatchery/Food fish | Salmonidae | Arctic charr | 100 | 3,0 | 75,0 | 17,2 |
| Hafrannsóknarstofnun | Grindavík - Staður | Experimental | Various | Various | 20 | 2,0 | 65,0 | 9,8 |
| Háafell | Nauteyri | Hatchery | Salmonidae | Atlantic salmon / Arctic charr | 200 | 20,0 | 43,0 | 59,2 |
| Íslandsbleikja | Núpar | Hatchery | Salmonidae | Atlantic salmon / Arctic charr | 150 | 10,0 | 100,0 | 78,0 |
| Íslandsbleikja | Öxarfjörður | Food fish | Salmonidae / Flatfish | Atlantic salmon / Arctic charr / Turbot / Atlantic halibut | 1.600 | 68,0 | 35,0 | 152,8 |
| Íslandsbleikja | Öxarfjörður | Food fish | Salmonidae / Flatfish | Atlantic salmon / Arctic charr / Turbot / Atlantic halibut | ^ | 72,0 | 18,5 | 55,3 |
| Íslandsbleikja | Öxarfjörður | Food fish | Salmonidae / Flatfish | Atlantic salmon / Arctic charr / Turbot / Atlantic halibut | ^ | 145,0 | 10,2 | - |
| Íslandsbleikja -Staður | Grindavík - Staður | Food fish | Salmonidae | Atlantic salmon | 1.600 | 8,0 | 65,0 | 39,0 |
| Laxeyri | Húsafell | Hatchery | Salmonidae | Atlantic salmon | | 10,0 | 70,0 | 53,1 |
| Laxeyri | Laxeyri | Hatchery | Salmonidae | Atlantic salmon | | 8,0 | 70,0 | 42,4 |
| Rifós | Rifós | Hatchery | Salmonidae | Atlantic salmon / Arctic charr | 1.000 | 10,0 | 10,0 | - |
| Veiðifélag Laxá í Kjós | Laxá í Kjós | Hatchery | Salmonidae | Atlantic salmon | | 2,8 | 19,0 | 2,3 |
| Tungusilungur | Tálknafjörður | Food fish | Salmonidae | Arctic charr | 200 | 56,0 | 10,0 | - |
| **Samtals** | | | | | **5.090** | **495** | **-** | **592** |

*Primary energy use is calculated based on water flow and temperature down to 10°C.

*Tafla 2: Frumorkunotkun jarðhita, framleitt af varmasölufyrirtækjum, nýtt í fiskeldum 2015*
*Table 2: Geothermal primary energy use produced by Main Activity Producers and used in fish farming 2015*

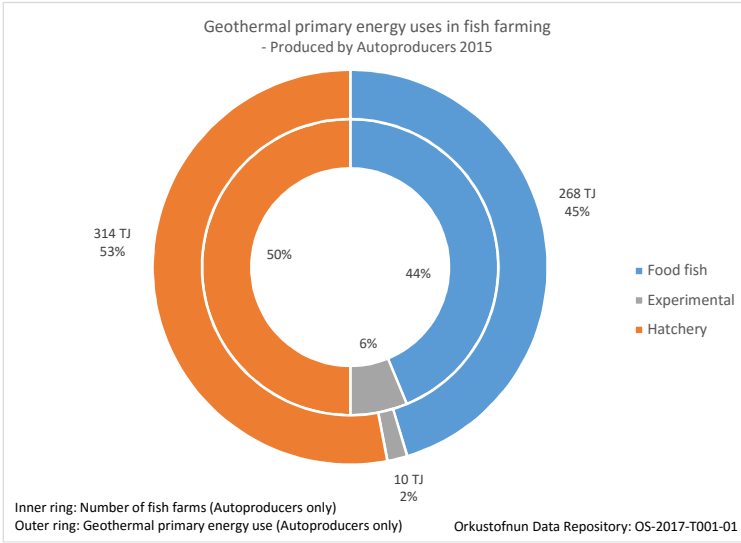
| Varmasölufyrirtæki<br>Main Activity Producer | Staðsetning<br>Location | Rennsli [l/s]<br>Water flow [l/s] | Hitastig [°C]<br>Temperature [°C] | Frumorkunotkun* [TJ]<br>Primary Energy Use* [TJ] |
|---|---|---|---|---|
| Hitaveita Dalvíkur | Dalvík | 0,1 | 62,9 | 0,3 |
| HS Orka | Stolt Sea Farm | 409,9 | 35,0 | 921,1 |
| Norðurorka | Ólafsfjörður | 0,1 | 60,0 | 0,3 |
| Norðurorka | Hjalteyri | 0,1 | 80,0 | 0,2 |
| Orkuveita Húsavíkur | Húsavík | 8,3 | 77,0 | 30,5 |
| Orkuveita Húsavíkur | Reykjahverfi | 3,1 | 70,0 | 9,6 |
| Orkuveita Húsavíkur | Aðaldalur, Kinn | 0,1 | 73,0 | 0,3 |
| Orkuveita Landsveitar | Fellsmúli | 8,0 | 52,0 | 30,0 |
| Skagafjarðarveitur | Hólar í Hjaltadal | 19,5 | 60,0 | 51,9 |
| Skagafjarðarveitur | Sauðárkrókur | 1,2 | 68,0 | 3,9 |
| Veitur | Þorlákshöfn | 10,6 | 86,0 | 70,7 |
| Veitur | Kjalarnes | 5,7 | 75,0 | 32,7 |
| **Samtals Main** | | **467** | **-** | **1.152** |

*Frumorkunotkun er reiknuð stærð miðað við uppgefið rennsli og hitastig niður að 10°C.
*Primary energy use is calculated based on water flow and temperature down to 10°C.



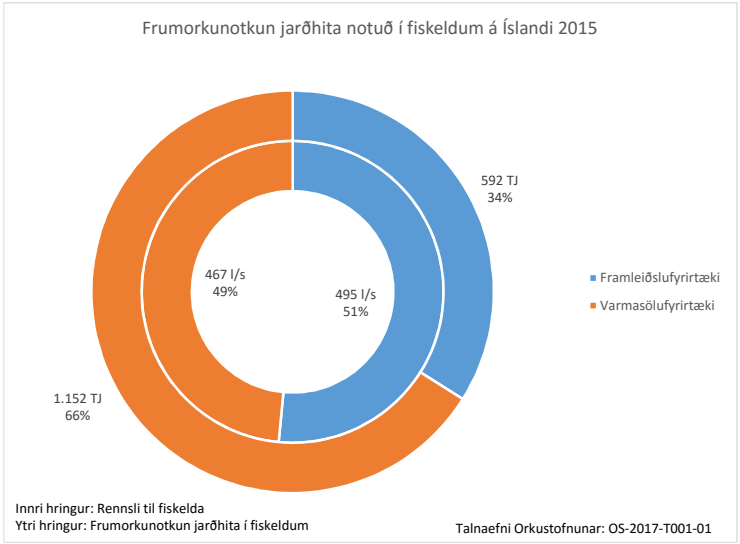

Innri hringur: Fjöldi framleiðslufyrirtækja
Ytri hringur: Frumorkunotkun jarðhita framleiðslufyrirtækja

Talnaefni Orkustofnunar: OS-2017-T001-01



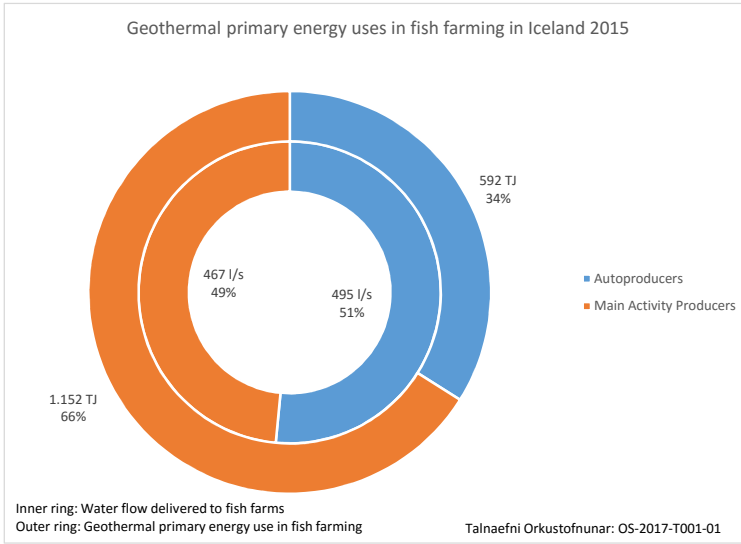

Inner ring: Number of fish farms (Autoproducers only)
Outer ring: Geothermal primary energy use (Autoproducers only)

Orkustofnun Data Repository: OS-2017-T001-01




Innri hringur: Rennsli til fiskelda
Ytri hringur: Frumorkunotkun jarðhita í fiskeldum

Talnaefni Orkustofnunar: OS-2017-T001-01




Inner ring: Water flow delivered to fish farms
Outer ring: Geothermal primary energy use in fish farming

Talnaefni Orkustofnunar: OS-2017-T001-01