

Production at Hellisheidi and Hverahlid, enthalpy and reinjection by point of release

Production at Hverahlid (million tons per annum) in 2018, production at Hellisheidi (million tons per annum) from 2007 to 2018 and reinjection (million tons per annum) by release route.

The blue colours show the volume of geothermal water (million tons per annum) re-injected into the field in the production wells that are not used for steam production, in re-injection wells in Gráuhnúkar and Húsmúli and in boreholes at Threngsli. The red curve shows the enthalpy of the geothermal fluids (kJ/kg) from 2007 to 2018, since the heat is a yardstick for the energy content of the geothermal fluid. The heat increased in 2009, after the high-enthalpy wells were connected to the steam utility of the plant in mid-2008 and again in 2016 with the influx of steam from Hverahlid. The green line shows the enthalpy of the geothermal fluid in Hverahlid, which rose significantly in 2018 with the addition of available steam. The lower figure shows the ratio of the renewal, i.e. mass balance of the system. In 2018 approximately 70% of the produced fluid was re-injected.

