

# Sustainable management of water resources

	Freshwater intensity	2018	2019	2020	2021	2022
A	Water consumptions in cogeneration plants (m <sup>3</sup> )	262,400	266,272	266,500	264,700	267,000
B	Electricity generated (MWh)	430,164	468,155	371,296	485,400	474,600
	<i>Of which cogeneration plants (MWh)</i>	<i>302,626</i>	<i>324,429</i>	<i>223,475</i>	<i>322,200</i>	<i>330,300</i>
	<i>Of which cogeneration as a service (MWh)</i>	<i>127,538</i>	<i>143,726</i>	<i>147,821</i>	<i>163,200</i>	<i>144,300</i>
A/B	<b>Water intensity on the sole electricity (m<sup>3</sup>/MWh)</b>	<b>0.61</b>	<b>0.57</b>	<b>0.72</b>	<b>0.55</b>	<b>0.56</b>
C	Thermal Energy produced (MWh)	253,725	261,195	236,253	296,900	268,800
	<i>Of which cogeneration plants (MWh)</i>	<i>172,721</i>	<i>168,433</i>	<i>140,850</i>	<i>191,900</i>	<i>181,200</i>
	<i>Of which cogeneration as a service (MWh)</i>	<i>81,004</i>	<i>92,762</i>	<i>95,403</i>	<i>105,000</i>	<i>87,600</i>
B+C	<b>Total energy produced (MWh)</b>	<b>683,889</b>	<b>729,350</b>	<b>607,549</b>	<b>782,300</b>	<b>743,400</b>
A/ (B+C)	<b>Water intensity on Total energy produced (m<sup>3</sup>/MWh)</b>	<b>0.38</b>	<b>0.37</b>	<b>0.44</b>	<b>0.34</b>	<b>0.36</b>

In 2018, Hera began to plan actions aimed at saving, reusing and recovering water (the "water management project"). The objective set in 2018 was to reduce by 10% in four years (compared to the 2017 final balance) the consumption of water.

Starting from 2020, the scope of the project was extended to include further business units and the target outlined in the last **business plan** envisages a **22% reduction in the volume of water by 2026** compared to 2017 and a **25% reduction by 2030**.

Even in the cogeneration plants there are ongoing efforts to find areas of improvement in the use of water, optimize the systems and implement measures to reuse and recover the resource (see for example water consumptions drop in 2018 after plants optimizations).

Hera generates electricity from cogeneration plants, that have a twofold objective: provide thermal energy to buildings and exploit heat trough turbines to generate also electricity. For this reason, when calculating the water intensity of those plants it should be considered the 'Total energy produced' (the sum of electricity and thermal energy expressed in MWh).

Data are also reported (without calculations) in the 2018-2022 Sustainability Reports:

- Pages 37, 39, 89 of 2018 [Sustainability Report](#)
- Pages 52, 53, 102 of 2019 [Sustainability Report](#)
- Pages 59, 61, 118 of 2020 [Sustainability Report](#)
- Pages 50, 51, 100 of 2021 [Sustainability Report](#)
- Pages 53, 54, 109 of 2022 [Sustainability Report](#)

## Actively contributing to Create Shared Value in the Italian water field