

# ENV4: Resource Efficiency

<b>Time of Effectiveness</b>	Mid-Term
<b>Repeatability</b>	90% (17 reports out of 20)
<b>Level of Confidence</b>	<b>9/10</b>
<b>Category</b>	Environment
<b>Outcomes</b>	<ul style="list-style-type: none"> <li>• Reduced usage of water</li> <li>• Reduced paper usage</li> <li>• Reduced waste generation (from office)</li> <li>• Slight Increase of employee sustainability awareness</li> </ul>
<b>Metrics</b>	<ul style="list-style-type: none"> <li>• Water usage (galons/year)</li> <li>• Paper usage (tons/year)</li> <li>• Waste generation from office (tons/year)</li> </ul>
<b>Problematic</b>	<ul style="list-style-type: none"> <li>• Paris Agreement: Article 2 b,c</li> <li>• Paris Agreement: Article 6 p.4</li> <li>• UN SDG 12: Responsible production and consumption</li> </ul>
<b>Additional Components</b>	<ul style="list-style-type: none"> <li>• Paper efficiency (<b>65%</b>)</li> <li>• Water efficiency (<b>82%</b>)</li> <li>• <b>Waste efficiency (94%)<sup>1</sup></b></li> </ul>

## Description

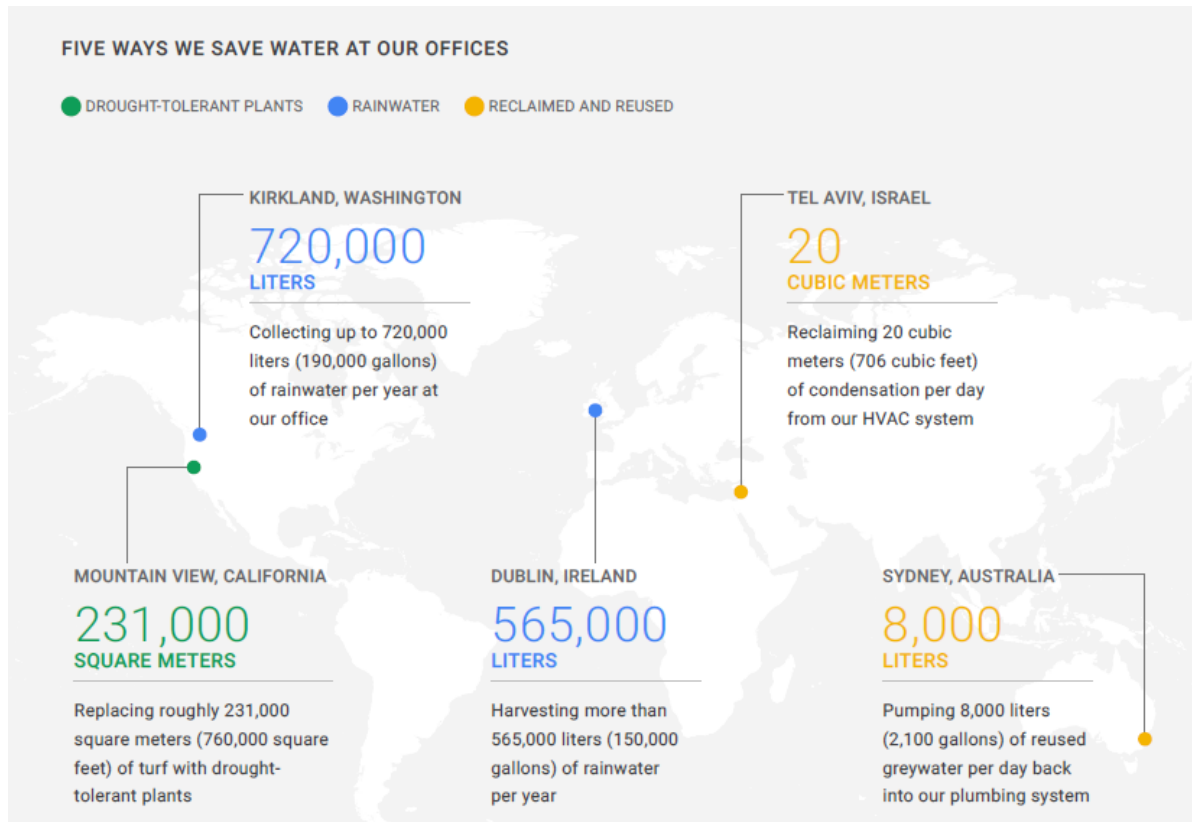
To limit their resources' consumption companies, and then reduce their environmental negative impacts, companies decided to set up initiatives to economize different type of resources. Most of them decided to focus on waste generation from office and water efficiency both from office and from operations. We can also notice that more than half of the companies decided to set up paper efficiency strategy, mainly by optimizing their printing policies. To maximize the impacts of this strategy, employees need to be fully aware with environmental issues (**LP5**).

## Example: Google (p.12,17,21-25,46,51,52)

At Google, they took several initiatives regarding resources' efficiency. Regarding water efficiency, they reuse wastewater to cool their datacenter, they designed some of their buildings (up to 41% water reduction at their Bay Area location in California). Some of their different initiatives are shown in the figure below:

<sup>1</sup> This additional component had a high level of confidence (8.5) compare to others in every category

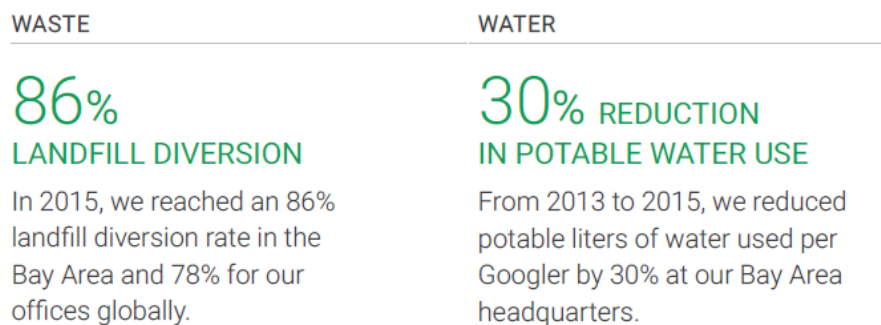
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*Water conservation initiatives at Google*

Regarding waste generated by office, they avoid creating waste. For example, they used a software to track food waste in their cafeteria, they manage to save 200 000 kilograms of waste in 2015 and donate or compost the remaining waste.

These two aspects allowed google to reduce their water consumption and increase the part of diverted waste from offices as shown on the figure below.



*Outcomes of the different resources conservation initiatives at Google*