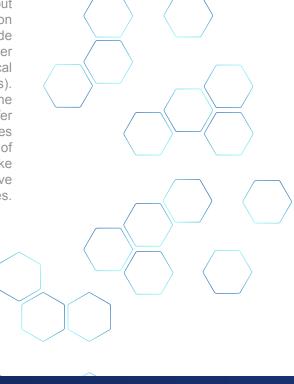


EFFECTIVE MANAGEMENT OF UTILITIES: WATER AND ENERGY BALANCING



Whenever we operate in our home or professional lives, we make use of WAGES (Water, Air, Gas, Electricity, and Steam) in some shape or form. It often surprises me how neglected the management of these resources We pay our bills without questioning it. We see leaking water running down the street and wonder if someone has reported it yet. As our access to resources is affected or reliability decreases, more focus has shifted towards alternative sources. In South Africa, we experience high levels of energy losses throughout our Transmission and Distribution networks. These losses include both technical (e.g. transformer and line losses) and non-technical losses (e.g. illegal connections). However, it's not only about the utilities supplying us; we also suffer internal losses and inefficiencies in our facilities. Regardless of the source we use, we can take responsibility for our usage and move towards more efficient practices.

So we want to look at starting to improving the management of our utilities. At the very least we should have an idea of our total monthly consumption, even if it is just from our utility bill. This alone doesn't yet give us an idea of where we need to act first. What about comparing if what we're putting in, is what we are getting out? Water and energy balancing gives us valuable insights into the management and efficiency of a system.



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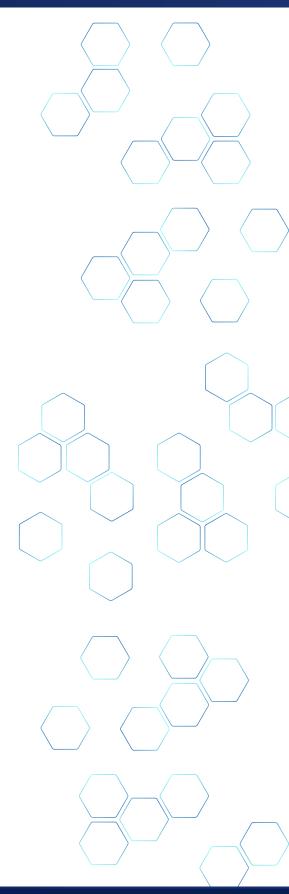
Throughout our electrical or water reticulations, we can set up checks and balances. Once we have the results of a balance analysis, there are several actions we can take based on the findings. Let's take a look at water in specific:

- Identify Losses: The water balance can help us identify areas of water loss within the system. By identifying leaks, seepage, or other sources of losses, we can take appropriate measures to address them promptly and reduce water wastage.
- Implement Leak Detection and Repair: With the water balance data, we can priotitise leak detection and repair efforts.



Conduct regular inspections and use advanced leak detection technologies to locate and fix leaks in pipes, valves, and fittings.

- Optimise Use: Analyse the water balance to understand how water is being used in different processes or sectors. We can use this information to optimise water use, ensuring that water is allocated efficiently and not wasted in non-essential activities.
- PASSESS Efficiency of Water Treatment: For industrial processes that involve water treatment, the water balance can help assess the efficiency of the treatment system. Identify areas where water treatment can be improved to minimise water consumption and discharge.
- Implement Conservation
 Measures: Based on the water
 balance results, implement
 water conservation measures
 to reduce water consumption.
 This could involve installing
 water-efficient equipment,
 adopting closed-loop
 systems, or recycling treated
 water for certain processes.
- Evaluate Demand Forecast:
 Use the water balance data to
 forecast future water demand
 based on historical trends and
 projected growth. This can help
 in planning for water availability
 and infrastructure development.
- Establish water management goals and targets based on the water balance outcomes. These goals may include reducing water losses, improving water use efficiency, or achieving specific water consumption targets.







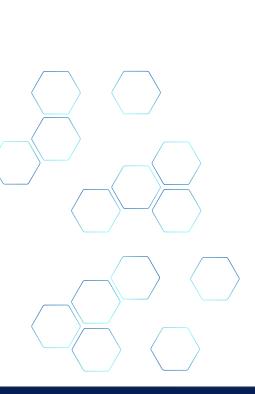
- Monitor Progress and Performance: Regularly monitor and track water balance data to assess the effectiveness of implemented water management strategies. Use this information to make data-driven decisions and fine-tune our approach.
- Comply with Regulations and Standards: Analyse the water balance to ensure compliance with relevant water regulations and standards. This will help avoid penalties and maintain a good reputation for environmental stewardship.
- **Educate** Engage Stakeholders: Share the outcomes of the water balance with relevant stakeholders, such as management, employees, and customers, to raise awareness water about conservation efforts and encourage to contribute to everyone water-saving practices.

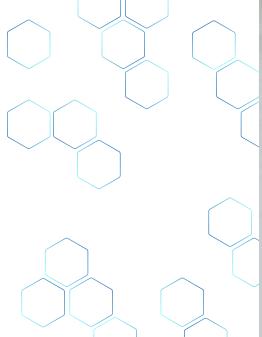
Considering the interconnectedness of water and electrical energy usage, it is essential to achieve sustainable resource management and mitigate the impacts of constraints and environmental challenges. Integrated approaches that optimise both water and energy use can lead to more efficient and resilient systems.

Often effective management of our utilities can seem like a daunting task. We are here to set up a roadmap with you and start off the journey towards achieving your goals. 4Sight OT assists you in improving the way your water and electrical energy resources are monitored, controlled, and utilised. By leveraging realtime and historic data, automation, and intelligent algorithms, we enable more efficient, sustainable, and cost-effective operations.

Contact 4Sight to advise you on effective management of utilities and how to improve efficiency. Email sales@4sight.cloud









CONTACT US

Incorporated in 2017, 4Sight is a JSE AltX (ticker: 4SI) listed, multi-national, diversified technology group. Our purpose is to leverage our extensive product and services portfolio, focused on 4IR technologies, people and data-focused solutions to design, develop, deploy and grow solutions for our partners (customers and vendors).

The company's mission is to empower our partners to future proof their businesses through digital transformation to make better and more informed decisions in the modern digital economy.

4Sight's business model enables its partners to take advantage of products and solutions within its group of companies, which will allow them to enjoy turnkey digital transformation solutions across industry verticals.



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