

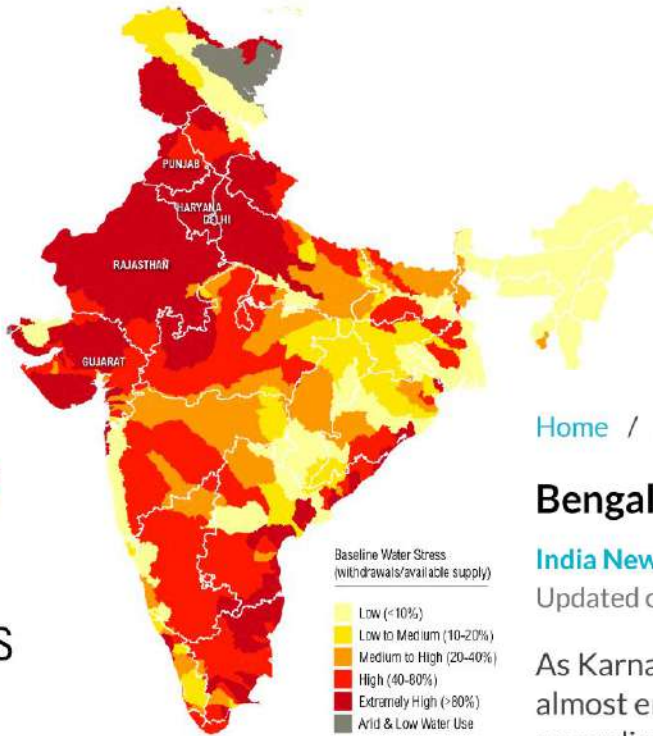
About FluxGen: Who We Are

- We are a Water Intelligence Platform for Industries and commercial facilities.
- We build solutions for efficient and sustainable water usage.
- We leverage upon AI and IoT to efficient water management.



If Climate Change is Shark, Water is it's teeth!

54%
of India
Faces
**High to
Extremely
High**
Water Stress



Chennai industries, IT firms face closure due to water shortage

TE Raja Simhan | Chennai | Updated on October 17, 2018 | Published on October 17, 2018



Of the 9.6 million barrels per day, 3.2 million bpd of demand growth will come from petrochemicals, says the IEA. - AP

Hit by private water tankers' strike following HC order banning groundwater exploitation

A strike by operators of private water tankers threatens to leave Chennai high and dry.

[Home](#) / [India News](#) / Bengaluru wastes nearly 50% water supply from Cauvery

Bengaluru wastes nearly 50% water supply from Cauvery

[India News](#)

Updated on Sep 16, 2016 12:27 PM IST

As Karnataka continues its legal battle over the Cauvery, the state's capital-almost entirely dependent on the river-wastes half the water it receives, according to an IndiaSpend analysis of water-use data.

Need / Problem

Helping industries de-risk with respect to water and making them water positive

Financial Risk

- Increasing cost of water as **groundwater is depleting** and groundwater extraction is chargeable if overused (as per CGWA and local municipalities)
- Cost of chilling, boiling, pumping, purification, RO raises **'true cost of water'**
- Cost of waste water disposal (**zero liquid discharge**), now mandatory as per the CPCB

Business Continuity Risk

- Industries are facing complete or partial shut-downs because of **unavailability of water**
- India is **6th on Global Climate Risk index**—which will hurt industry and economic growth
- **Conflict** between industrial and agricultural / residential water consumption is rising

Compliance Risk

- **CPCB** – monitors water consumption/treatment at all points for any business
- **CGWA** – monitors groundwater extraction; consumption to be reduced else harsh penalties
- **FSSAI** – for food industry, without water monitoring, certification is not possible
- **BRSR** – the 1,000 top SEBI listed companies have to disclose water footprint data for every product (food or non-food) on their labels

Our Solution: End to End Water Intelligence

FluxGen
Sustainable Technologies



Centralized water management system through AquaGen



Real time water flow and level monitoring



Leakage/Excess consumption detection



24/7 Live data visualization



Prescriptive alerts based on our algorithms/models



Assisted Marketplace for water solutions

Architecture:



Water Sensors

- RS485
- Zigbee
- Lorawan
- GSM
- Pulse

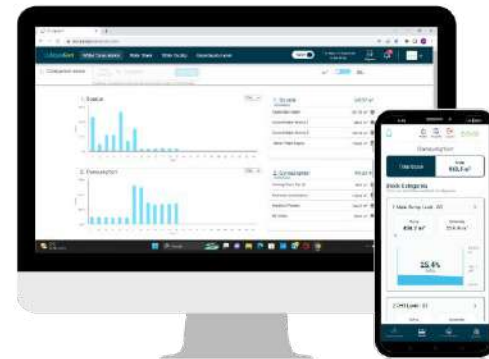
+



Hardware: AquaGen IoT
Wireless Communication
Device



Cloud Platform:
Microsoft Azure



AquaGen Software
Data analytics w. AI Algorithms
API Integration
Interactive Dashboards

3 Billion liters of water saved so far...

100+ paying clients having some of the best brands in their respective sectors



Testimonials & Case Studies

BRITANNIA



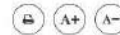
Tata Steel Mining Collaboration

<https://infra.economictimes.indiatimes.com/news/water/tata-steel-mining-to-conduct-water-audits-at-its-five-facilities-in-odisha/93316559>

Tata Steel Mining to conduct water audits at its five facilities in Odisha

Tata Steel Mining Ltd on Tuesday said it has decided to conduct water audits at five of its operational facilities in Odisha to ensure more efficient use of the resource and its conservation.

PTI • August 03, 2022, 12:19 IST



Bhubaneswar: Tata Steel Mining Ltd on Tuesday said it has decided to conduct water audits at five of its operational facilities in Odisha to ensure more efficient use of the resource and its conservation. The company has partnered with New Delhi-based The

Energy and Resources Institute (TERI) for the proposed exercise.

The initiative focuses on comprehensive water audits involving the use and balance of the resource, quality profiling, identification of water losses and leakages, the company said in a statement.

It also said this will enable TSML to develop an integrated industrial water management strategy that optimises efficient use of water and improves productivity of the resource at its units.

TSML has also tied up with FluxGen Engineering Technologies, a Karnataka-based company working on water solutions, to install AquaGen mechanism to reduce consumption of the resource, the statement said.

AquaGen is a SaaS (software as a service) platform that will give a secure and single-window access system to digital data of the entire water infrastructure on parameters such as water flow and bore-well water level.

Speaking on these initiatives, TSML Managing Director Pankaj Kumar Satija said, "Water being a critical national resource, we are focusing on zero down groundwater withdrawal and a 30 per cent reduction in surface water intake by 2030."

Case Study: Lactalis India (Thirumala)



Thirumala has been maintaining its position as a fastest growing brand with presence in major states of India such as Tamil Nadu, Karnataka, Andhra Pradesh, Telangana, Kerala, Madhya Pradesh, Uttar Pradesh, and West Bengal.

Services Offered by FluxGen

End to End water management system with Real time monitoring of 11 water points

Analytics and Alerts

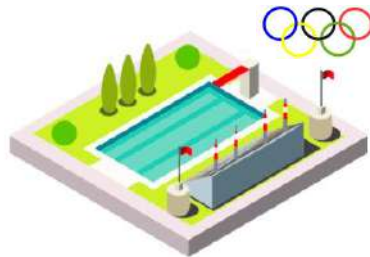
Notify

Water Leakage Water Wastage Excessive Usage Milk to Water Ratio

19%



=



Water Savings equivalent to fill 180 Olympic Size Swimming pools

Case Study: GKNM Hospital



Excellence in Water Management

CII National Water Awards

FluxGen
Sustainable Technologies



GKNM HOSPITAL
We care. And it shows

GKNM Multi speciality Hospital in Coimbatore was established in 1952 by the Kuppuswamy Naidu Charitable Trust to care for Women and Children.

Services Offered by FluxGen



End to End water management system with Real time monitoring of 15 water points



Analytics and Alerts

Notify



Water Leakage



Water Wastage



Excessive Usage

Yearly Water Consumption



Before AquaGen



After AquaGen

*Ref. year : 2020
Test year : 2021



28,470 KL

Total Water Savings

Efficiency



Rs. 43 Lacs

Before AquaGen



Rs. 26 Lacs

After AquaGen



Annual Water Savings



Annual Cost Savings

1825 automated "water leakage and wastage alerts" were generated by AquaGen AI engine during 2021.

Test year : 2021



Comparison mode

Today
02/18/2023

Vs

02/17/2023

Fetch Data

m³

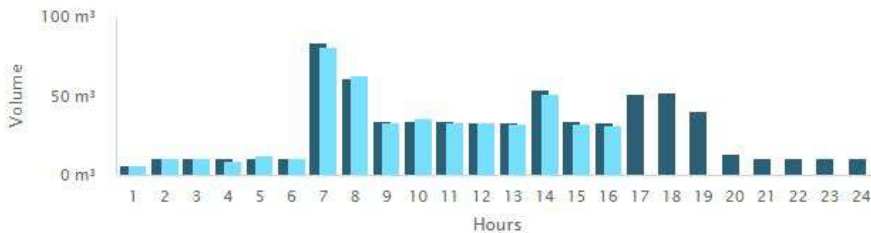


KL

Disabling Comparison mode will only show today's data (02/18/2023) data.

Consumption

Day ▾



● 02/17/2023 | Total Consumption = 694.71 m³
● 02/18/2023 | Total Consumption = 488.70 m³

Consumption (02/18/2023)

488.70 m³

Cooling Tower Top Up

36.85 m³ Ⓢ

Domestic Consumption

210.10 m³ Ⓢ

Industrial Process

124.31 m³ Ⓢ

RO Water

117.44 m³ Ⓢ

CONSUMPTION
PATTERN
COMPARISON

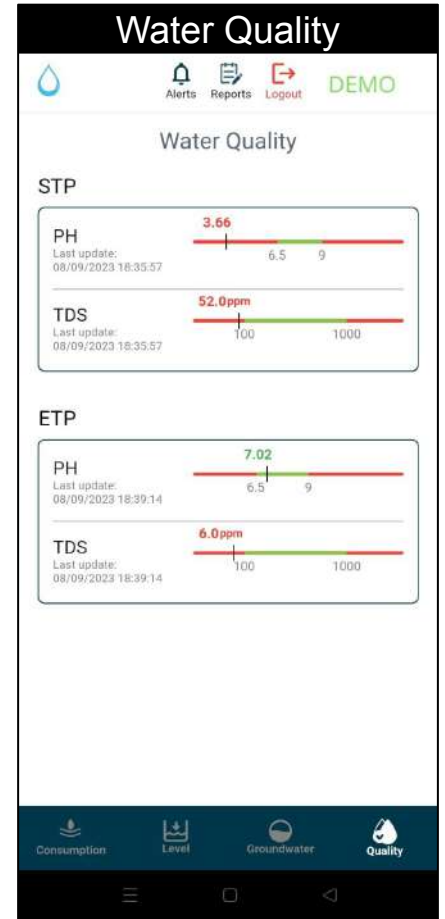
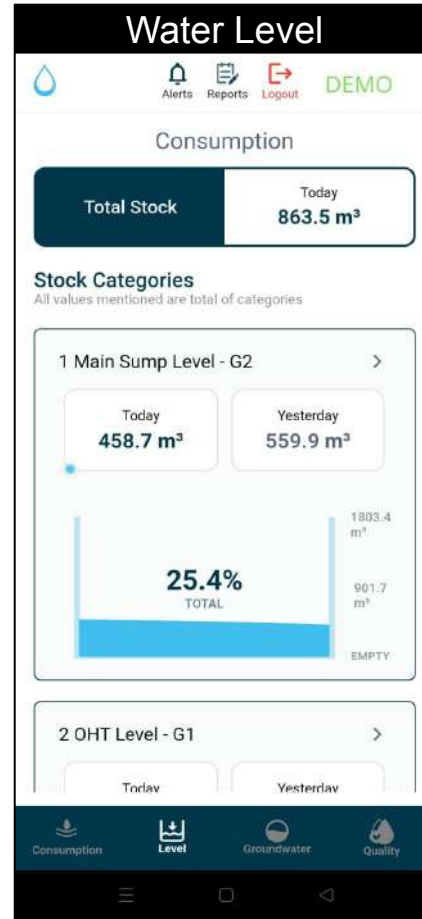
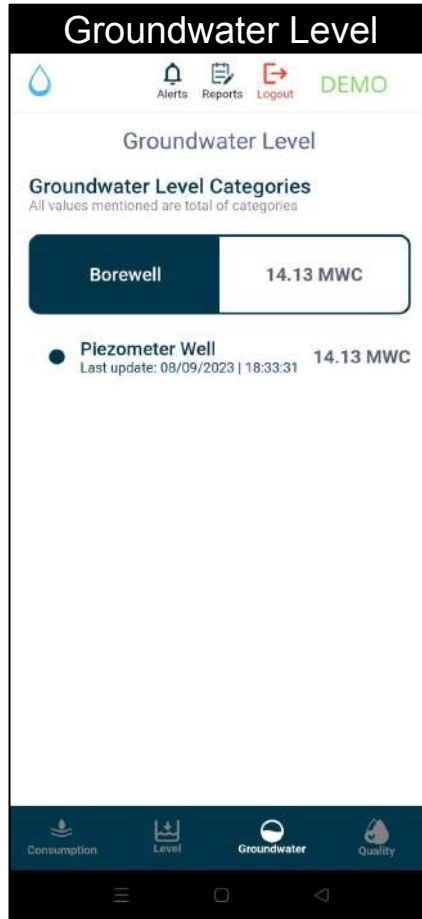
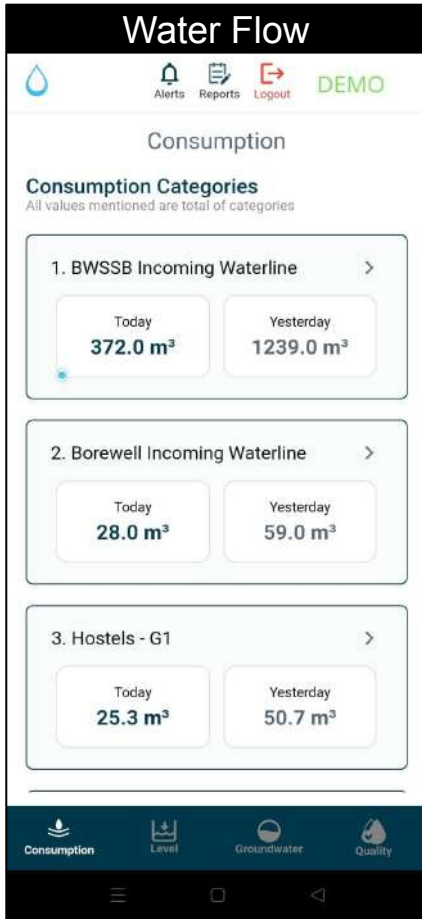
ANOMALY
DETECTION & REAL
TIME
NOTIFICATION
BASED ON FLOW
RATES

BENCHMARKING
BASED ON
HISTORICAL DATA
& INDUSTRIAL
STANDARDS

PREDICTIVE
ANALYTICS

PRODUCTION VS
WATER
CONSUMPTION
COMPARISON

Mobile Application



Collaborations and Partnerships



Indian Institute of
Science



Berkeley Innovation
Acceleration Group



Microsoft
Microsoft Research



MoHUA
Amrut 2.0



Confederation of
Indian Industry

CII



LaunchPad
Cisco Startups





Cisco for Startups
@CiscoStartups

Yet another shot in the arm! @ganesshankarFG Big congratulations on bagging this prestigious award. #water #SaveWater #technology #environnement

Action For India @ActionForIndia · 12 Nov 2019
Action For India congratulates Mr. Ganesh Hassan Shankar, Managing Director, FluxGen Technologies on Winning the AFI Best Indian Social Enterprise Award 2019.



debjani ghosh ✓
@debjani_ghosh_

This is exactly why we need a strong start up ecosystem! Great use of #AI to address the imminent water crisis facing our cities. Hope to see start ups like #Fluxgen that are innovating for India get the required support for scale. @NITIAayog @rabhishek1982 @Go_Meity

MeitY-nasscom CoE-IoT & AI @nasscomCoEIOT · Jul 5, 2019
Ganesh Shankar of Fluxgen Technologies brings to light a pressing issue - water management, especially for India's major cities that are grappling a water crisis currently. Technology can play a hugely transformational role in better water management today.
#XperienceAI #AI #tech



Project Amplify



Project Amplify Solution Showcase



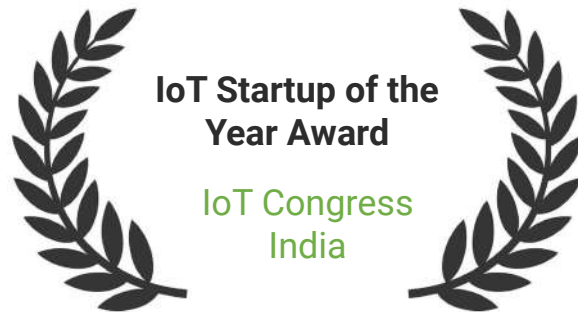
Ganesh Shankar
Founder & CEO,
FluxGen Technologies





FluxGen's mention in Hon'ble PM Shri Narendra Modi's Mann Ki Baat Ep. 101





Thank you!
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