

WTP & ETP Smart Automation & Utility Cost Savings Solution

Optimizing Energy, Water, & Effluent Treatment with Smart Automation and Cost Savings



A Sister Concern of **BAGMA** International Ltd

OSS Technology & Consultancy Services Ltd.

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Slide 1: Title Slide **Utility Cost Saving Solutions**

Smart Engineering for Sustainable Performance

Presented by **OSS Technology & Consultancy Services Ltd.**
In Collaboration with **3R Technology**



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- **Title Slide.....**

- *Utility Cost Saving Solutions*

Powered by OSS Technology & Consultancy Services Ltd. in collaboration with 3R Technology

- **Why Utility Cost-Saving Is Critical**

- **Common Utility Challenges in Textile Plants**

- **OSS + 3R – Smart Utility Solutions That Work**

- **Focus: Gas Crisis Handling Solutions**

- **Hot Water Module – The Game Changer**

- **WTP & ETP Smart Automation**

- **Real Factory Impact – Before vs After**

- **ROI Snapshot – Quick Investment Payback**

- **Sustainability + Profitability**

- **Let's Transform Your Utility System – Contact OSS**



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Why Utility Cost-Saving Is Critical

-  Rising gas & fuel prices
-  Buyer pressure for sustainable production
-  Production disruptions due to gas instability
-  Profit margin squeeze in a highly competitive industry

 **Textile factories need smart solutions to stay competitive—especially under low gas pressure conditions.**



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Common Utility Challenges in Textile Plants

-  **Low Gas Pressure** → Steam shortage & production halts
-  **Inefficient Boilers** → Excessive fuel usage
-  **Manual WTP & ETP Settings** → Overuse of chemicals & energy
-  **No Real-Time Optimization** → Missed savings every hour

Result? High costs. Low efficiency. Poor sustainability.



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✳ OSS technology & Consultancy services Ltd & 3R Technology – Smart Solutions That Work

We offer **engineered, ROI-driven solutions**—not just equipment.

🔧 Our Solutions:

- ✓ WTP Optimization
- ✓ ETP pH Control Without Acid
- ✓ Boiler Retrofits
- ✓ Hot Water Module
- ✓ Economizer Tuning
- ✓ Low Differential Pressure Systems

Outcome: Less downtime. More savings. Sustainable performance.



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Special Focus – Gas Crisis Solutions

Facing gas pressure drops as low as **0.3 psi?**

3R Delivers:

-  *Low Differential Pressure Boiler Device*
-  *Hot Water Module for Process Heating*
-  *Smart Blowdown & Economizer Tuning*

 **Keep boilers running. Cut fuel bills. Prevent shutdowns.**



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Hot Water Module – Why It's a Game Changer

- Instant hot water at machine level
- Eliminates dependency on high-pressure steam
- Reduces **shade variation & re-dyeing**
- Enhances **boiler load stability**
- 🕒 **ROI in just 6–8 months**
- ✅ **Consistent production—even during gas dips**



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WTP & ETP Smart Automation

WTP Optimization

- ✓ Minimal chemical usage
- ✓ Better RO membrane life
- ✓ Reduced TDS & energy cost

ETP pH Control Without Acid

- ✓ 50% less blower power
- ✓ No need for neutralization acid
- ✓ Safer, eco-friendlier, and cheaper
-  **Up to 25% cost reduction in treatment processes**



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☑ Real Factory Results After 3R Implementation

Parameter	Before	After 3R	Improvement
Steam Usage	80 tons	60 tons	↓ 25%
Fuel Cost	BDT 12 lakh	BDT 9 lakh	↓ 25%
Re-dye Rate	8%	2%	↓ 75%
Downtime	3 hrs/week	0.5 hr/week	↓ 83%

☑ *Proven improvements across production, cost, and quality*



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ROI Snapshot

Solution	Avg. Monthly Saving	ROI Period
Hot Water Module	BDT 1.5–2 lakh	6–8 months
Boiler Optimization	BDT 2–3 lakh	6–10 months
WTP & ETP Automation	BDT 50K–1 lakh	3–4 months

- ☐ Investment that pays for itself—fast.



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Sustainability + Profitability

-  Lower carbon footprint
-  Reduced fuel & water usage
-  Buyer compliance made easier
-  Smart dashboards for real-time tracking
-  **3R = Reduce. Reuse. Recover.**

Make sustainability part of your bottom line.



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Let's Transform Your Utility System

Why OSS Technology & Consultancy Services Ltd?

 30+ years of experience in textile utility optimization

 Data-driven, ROI-based engineered retrofits

BD Local service & fast deployment

 *Ready to save costs and boost performance?*

 Contact us today to schedule a consultation!



OSS Technology & Consultancy Services Ltd.

Our Technology & Services

We offer an integrated range of advanced technologies and sustainable solutions tailored to meet the evolving needs of the textile and garment industry. From high-performance machinery to intelligent digital systems and expert consultancy, we are committed to driving innovation, operational efficiency, and environmental responsibility.

Our greatest strength is our people — a distinguished team of highly qualified professionals from Bangladesh and abroad, each bringing 30 to 40 years of hands-on experience in the textile and apparel industry. Their unmatched expertise and strategic insight drive the excellence behind every solution we deliver.

Our key areas of expertise include:

1. **Textile Machinery** – Complete solutions for knitting, dyeing, washing, and AOP processes.
 2. **Dyes & Chemicals** – Authorized agent of **Delta Chemicals Company (Turkey)**, offering high-quality chemical solutions.
 3. **Advanced Garment Machinery** – Cutting-edge technologies for cutting, sewing, printing, and embroidery.
 4. **OCMS ERP** – A smart, industry-specific **ERP & RFID** system designed for textile and garment operations.
 5. **Utility Cost Saving Solutions** – Environment-friendly recycling and reuse systems to optimize operational costs.
 6. **ETP & WTP Solutions** – Sustainable **3R (Reduce, Reuse, Recycle)** technology for efficient water and waste treatment.
 7. **Training & Consultancy** – Through **BAGMA Institute** and **Sustainable Business Solution Services Ltd.**, we provide capacity building and strategic guidance to strengthen the industry.
- Together, these services form a **one-stop solution** for manufacturers aiming to increase productivity, minimize environmental impact, and stay competitive in the global market.

Contact Information



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