



DuBois
Makeup Module

Makeup Module

Go straight to the source. Modification of makeup quality is often justified by water savings alone. DuBois **Modular Solutions** combines equipment with innovative applications technology to create the right blend.

Potential reasons for makeup modification

- Excessive hardness can lead to scale which impairs heat transfer
- Excessive alkalinity may require dangerous acid feed
- Excessive silica may require heavy blowdown and chemical usage
- Excessive TDS is corrosive and could exceed target limits
- Drought or water availability requires minimization of water usage and costs

Although DuBois has a chemical program to address each of these conditions, at times a combination of chemical and mechanical aspects can best meet our customers' needs - *and that's what it's all about!*

With the help of our equipment co-suppliers and some innovative thinking, DuBois can assess your operational needs and determine the optimum course of action.

Advantages

- Contribute to LEED certification through water savings points
- Computerized projections lead to best equipment and product recommendations
- Langelier, Ryzner, and other indices predict potential for scale formation
- Payback calculations are performed, so that you can decide
- An even billing agreement may incorporate and amortize the equipment
- Avoid the need for capital approvals in many cases
- A sustainable approach for optimum treatment

Your DuBois representative can show you how a Water Treatment Even Billing Agreement can incorporate chemicals, services, and equipment at an overall yearly cost typically below that which you currently pay!

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Example

	Before Modification	After Modification
Tonnage	500	500
Operational parameters	24/7	24/7
Softener - 50% of makeup	No	Yes
Cycles (hardness limited)	3	6
Daily makeup	32,400 gal	25,920 gal
Water base cost	\$3.00/1000 gal	\$3.00/1000 gal
Daily water cost	\$97.20	\$77.76
Yearly water cost	\$35,478	\$28,382
Projected savings	-	\$7,096/year
Approximate softener cost	-	<\$5,000
Simple payback	-	8.4 months

