

Promoting circular economy across key inputs for textile manufacturing

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Key initiatives for enabling circular economy



- **Achieved 70% circularity on water utilization by implementing various water recycling solutions**



- **Waste to energy: more than 30% of energy requirements are derived from renewable energy and waste to energy solutions**



- **Established closed loop recycling for used garments. Using upto 20% post consumer recycled cotton and replacing virgin material**



- **Eliminating use of hazardous chemicals from textile production**
- **Recovered 1500 tons salts from waste water and reused in dyeing process**

Water conservation has been a key focus area for Arvind



One of the **largest Zero Liquid Discharge plant in India**



Organisation wide **recycled water usage at 70%**



100% process water from recycled water at denim laundry facility

- New industrial park at Ethiopia is zero liquid discharge facility with 100% recycling of waste water
- Executed public private partnership water recycling program at Ahmedabad, utilizing waste water from Municipality and using it for production post treatment



Waste to energy & Renewable Energy

- At textile mills we have replaced 50% of the coal usage by biomass
- Using 55000 tons of clean fuel every year and avoiding 93,000 tons CO2 emissions per annum
- Individual factories have reached upto 75% of energy from renewable energy sources
- We are building a rooftop solar power system of 24 MW spread across all our factories
- Our largest factory has installed 16 MW of onsite rooftop solar plant; largest such industrial installation in South Asia.
- Overall we are meeting 30% of energy needs from renewable sources



Closing the loop in Cotton – Post Consumer Waste

- Recovering fibre from discarded denims at the end of life by consumers
- Discarded clothing is the biggest challenge and majority of it is making its way to landfills
- At the same time growing fresh cotton is environmentally very demanding
- Cotton consumes very high amount of pesticides, fertilizers and water
- Arvind is using upto 20% of fibre from used garments and replacing the virgin cotton to equivalent extent
- Same is being done with polyester, where content from recycled PET bottles is being used to replace virgin polyester





Mixing used Denim waste with virgin cotton in blowroom



Used Denim waste getting uniformly mixed.



Yarn made with 20% recycled content



Thank you!

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