

# Perpetually - Energy

Energy powers our production and operations. The source and quantum of energy we consume significantly determines the sustainability of our organisation as it affects the cost of our products and our carbon footprint.

Thus it is not a surprise that we have made energy, its suppliers and its regulators our perpetual allies.

For greening our energy mix, we have installed a 16.2 MW rooftop solar at Santej, which is India's largest largest rooftop solar installation at a single location in collaboration with Cleantech Solar. We have also formed an alliance with NK Protein for supply of biomass to green our energy mix even further.

## Highlights:



**16.2 MW**

India's largest rooftop solar installation at a single location commissioned at santej

**22 MW**

Total current solar power generation capacity across facilities

Certification  
Ethiopia operations are

**Fully powered**

by renewable energy

Exceeded target by

**6.8%**

under the PAT scheme on energy efficiency at our Santej Unit compared to FY 2016-17 (Baseline Year)

Implemented

**ISO 50001**

energy management system at all our large energy consuming sites

**13.88%**

reduction in direct GHG &

**15%**

drop in indirect GHG emissions in five years

Optimising energy productivity offers myriad benefits such as GHG emissions reduction and low annual energy costs. Adding renewables to the energy mix enable us to derive maximum value out of each unit of energy consumed. Combined together, these steps make us a more responsible energy user and enable us to move on the decarbonisation pathway.

Here are a few of our key achievements:

Based on this policy, we have developed an energy strategy 'Less Watt Per Metre' to flatten our energy demand curve and reduce our environmental footprint.

The strategy has led to:

1. Process improvements
2. Adoption of technology solutions
3. Enabled energy saving, and use of renewables.

## ENERGY CONSUMPTION

Coal, electricity and compressed natural gas were used for our operations till now. We diversified into solar power during the reporting period to increase the renewable energy mix in our operations. In fact, our Ethiopia operations are completely powered by solar energy now. We are working towards increasing solar power as a source of energy for our other units too. We have expanded the scope of our disclosures to reinforce our energy accountability by including smaller units at Arvind in the reporting period.

Performance	Emissions
After an increase in FY 2016-17, our energy use has been consistently going down due to various energy efficiency initiatives such as installing new boilers and energy-efficient motors, implementing ISO 50001 standards, and shifting to LEDs from incandescent tube-lights.	Energy conservation initiatives such as shifting to LED, implementing ISO-50001, installing new boiler and bringing in efficient motors led to decrease in the energy consumption resulting in both direct and indirect emissions going down. Implementation of various energy efficiency projects including daylight harvesting systems, the variable frequency drives in motors, condensate recovery systems, flash steam recovery system, and use of solar energy has led to reduction in GHG emissions.

People

Chemicals

## TOTAL DIRECT ENERGY CONSUMPTION

in Π

Units	FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19
Woven & Knits	2,580	2,566	2,686	2,933	2,860

Units	FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19
Denim	1,300	1,227	1,160	1,130	1,015
Garments Export Division	78	101	60	110	105
Yarns*	1.12	0.86	0.42	0.94	0.51
Voiles	243	269	263	303	284
<b>Total</b>	<b>4,202</b>	<b>4,164</b>	<b>4,169</b>	<b>4,477</b>	<b>4,264</b>

\* Note: Yarns business include - Arvind cotspin & Arvind intex. Arvind Intex uses only purchased electricity and hence no direct energy consumption.

## SPECIFIC GHG EMISSION

in kg CO<sub>2</sub>/metre production

Units	FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19
Woven Knits	3.26	3.18	3.07	3.06	2.94
Denim	2.27	2.20	2.09	1.63	1.61
Garments Export Division (kg CO <sub>2</sub> /pieces)	0.92	0.88	0.73	0.60	0.50
Yarns (kg CO <sub>2</sub> /kgs of production)	2.55	2.67	2.71	2.65	2.66
Voiles	1.15	1.17	1.00	0.94	0.94

Specific GHG emissions have gone down by 29% and 10% at Denim and Woven & Knits units respectively, over a period of five years.

## ENERGY CONSERVATION

Energy conservation at Arvind is not just limited to changing the conventional bulbs with LEDs or adopting the new energy efficient technologies. It's about building a culture of conservation where each and every employee in the organisation participates. We have also enhanced the energy conservation awareness of our vendors through trainings, workshops and seminars. This empowers us to conserve beyond our sphere of operations and thereby contribute to the climate narrative on a larger scale.

### Energy Efficiency Initiatives At Various Locations & Units

1. Installation of Effimax monitoring system and energy efficient boilers, machines, compressors
2. Introduced daylight harvesting systems
3. Optimised power and pressure in submersible pumps
4. LED light fittings in place of fluorescent light fixtures
5. Introduced Variable Frequency Drives (VFD) in boilers
6. Reused heat and water in processing machines from condensate recovery
7. Conducted compressed air leakage audit and arrested leakages
8. Installation of rooftop solar systems

## Case study



Powering Operations Through Solar

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