

Ultratech, a Division of Veeco Environmental Performance (Green) Metrics

Ultratech, a Division of Veeco is certified to ISO 14001 “Environmental Management Systems”. ISO 14001 is a globally recognized environmental standard that assures, through third party audits, that an organization establish environmental improvement objectives and that it tracks performance towards meeting those objectives.

Green Metrics have been established to track Ultratech’s performance in managing and improving four key environmental aspects:

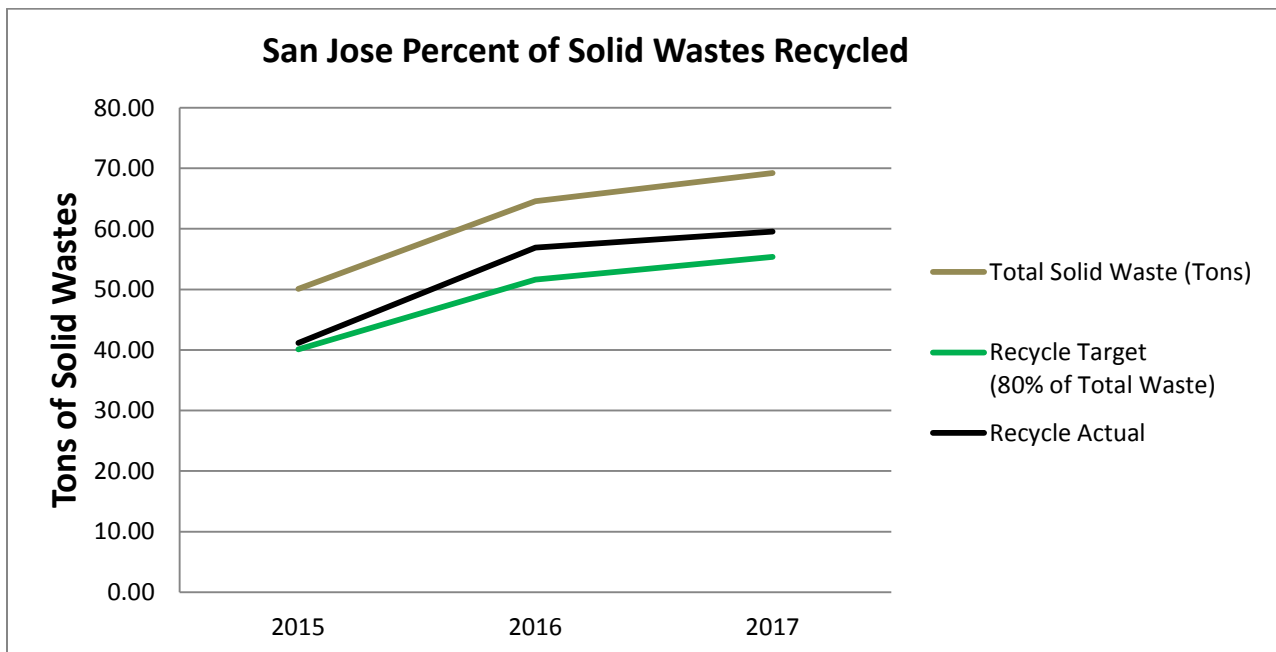
1. Recycling of Solid Wastes in the San Jose Facility
2. Use of Office Paper in the San Jose and Singapore Facilities
3. Use of Process Water in the San Jose and Singapore Facilities
4. Use of Electricity (Energy) in the San Jose and Singapore Facilities

Green Metric 1: Recycling of Solid Waste in the San Jose Facility:

In San Jose, solid non-hazardous waste is generated from office, R&D and manufacturing operations and includes:

- Printer and copy paper
- Confidential documents
- General office trash
- Shipping & receiving packaging material
- Electronic waste
- Scrap metal

Ultratech has established the goal of recycling 80% of the solid non hazardous waste generated in San Jose and has met that goal for the last 3 years:

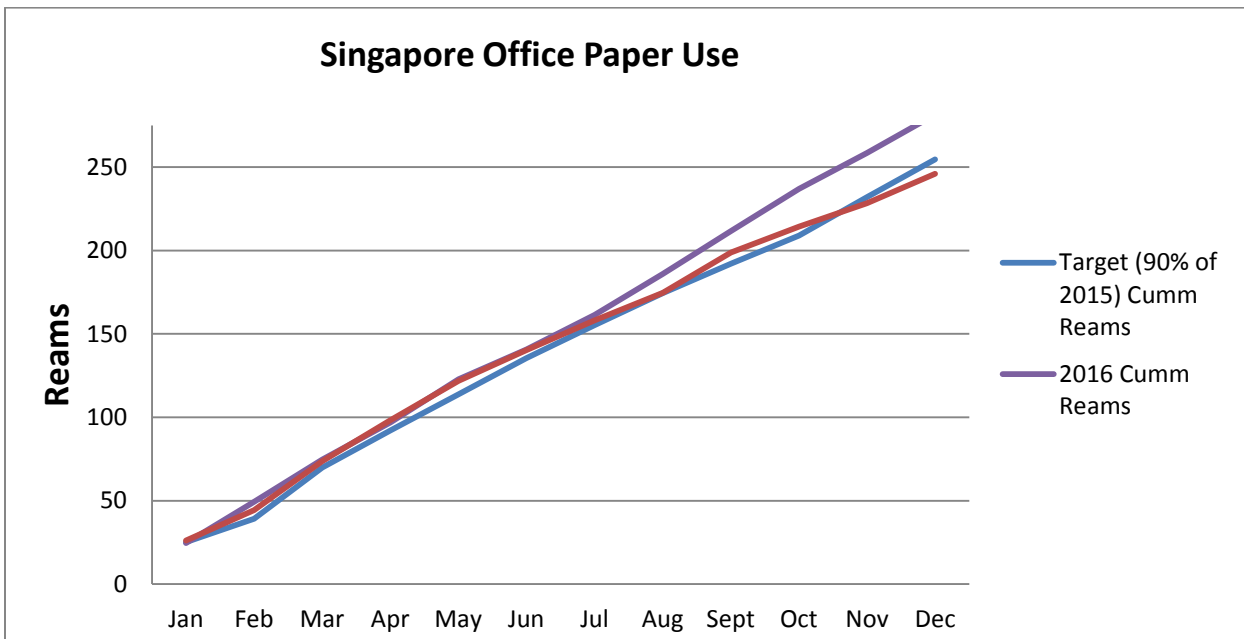
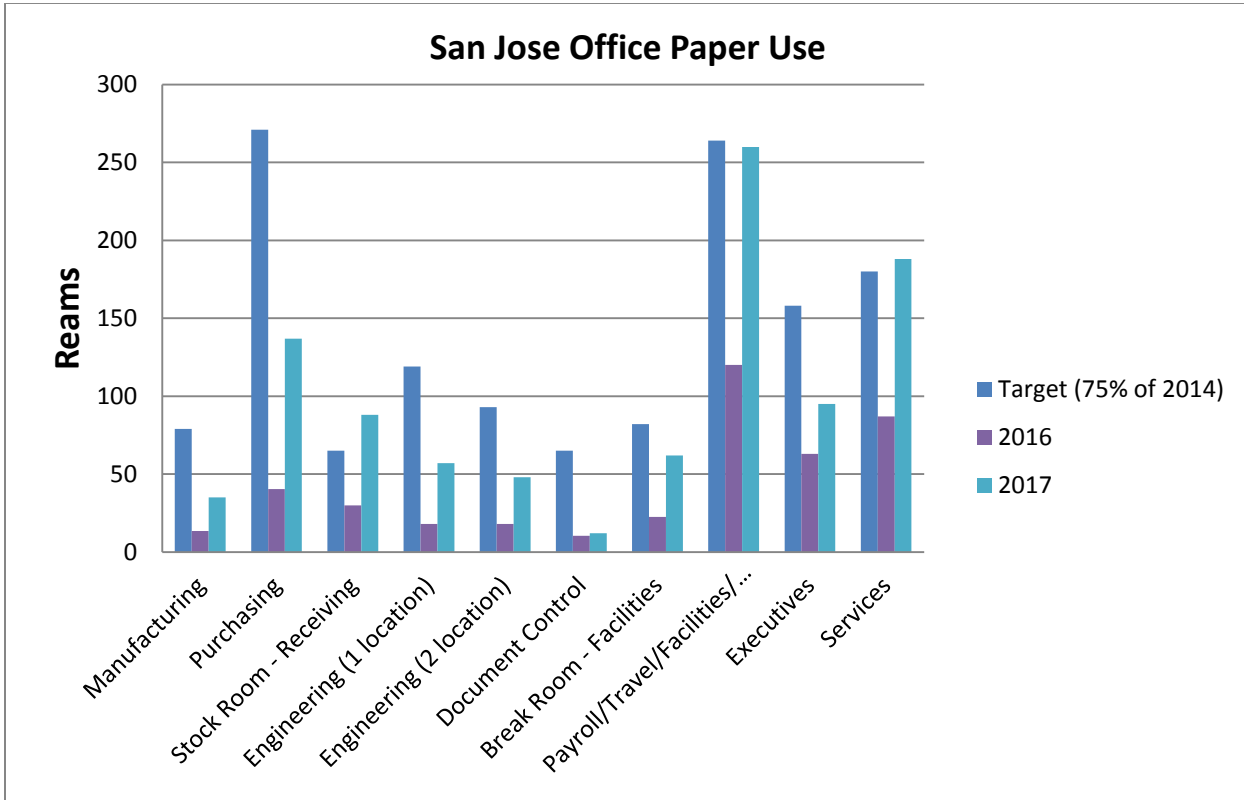


Green Metric 2: Use of Office Paper in the San Jose and Singapore Facilities:

Ultratech operations in San Jose and Singapore use office paper in much the same way as most businesses. To reduce use, Ultratech researched historic trends in uses of office paper and determined that the best options for reducing office paper use were to:

- Set copier and printer defaults to double sided-printing
- Increase the use of databases and other electronic tracking methods

Ultratech has established the goals of reducing the amount of office paper used on a departmental basis in San Jose to 75% of that used in 2014 and to reduce the amount of cumulative paper used in Singapore to 90% of that used in 2015. In the San Jose operation, all departments except for “Services” met the goal for both 2016 and 2017. In Singapore, the results for 2016 were mixed, but the goal was met in 2017:



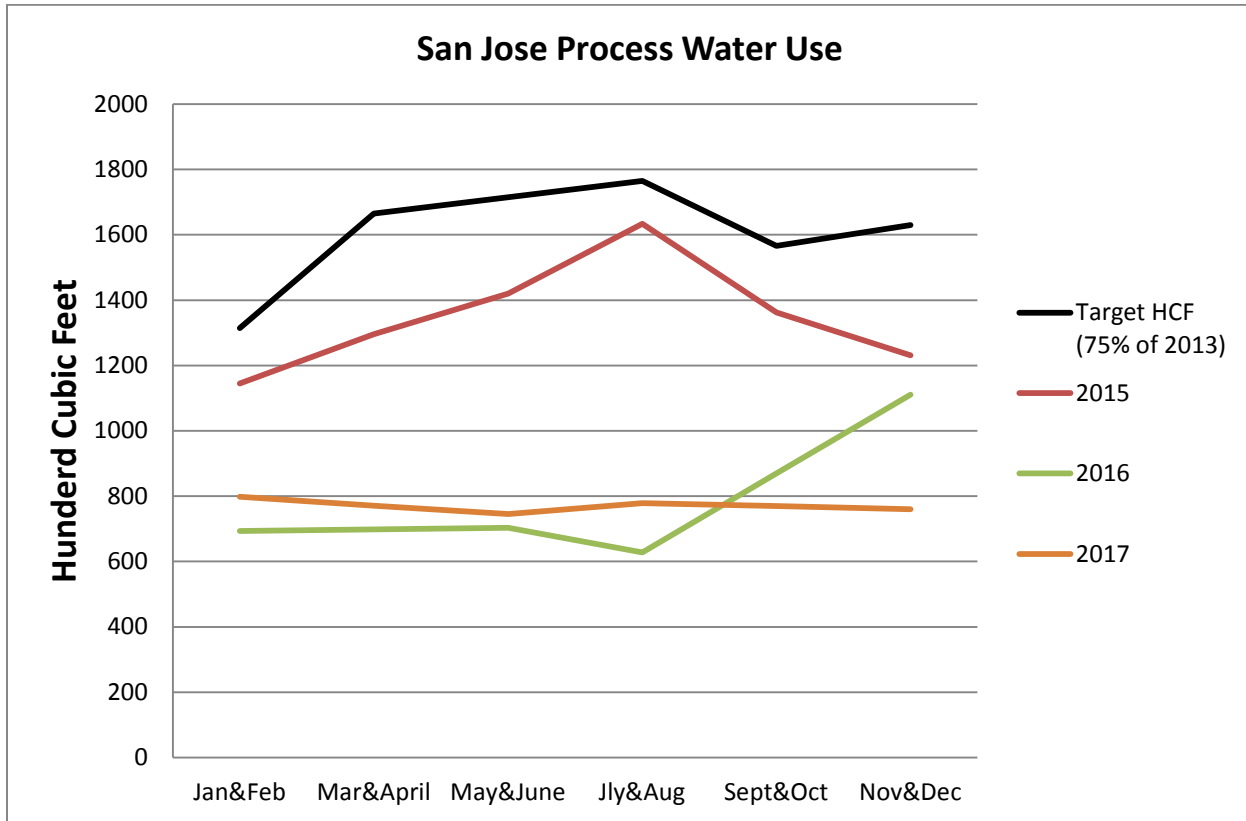
Green Metric 3: Use of Process Water in the San Jose and Singapore Facilities

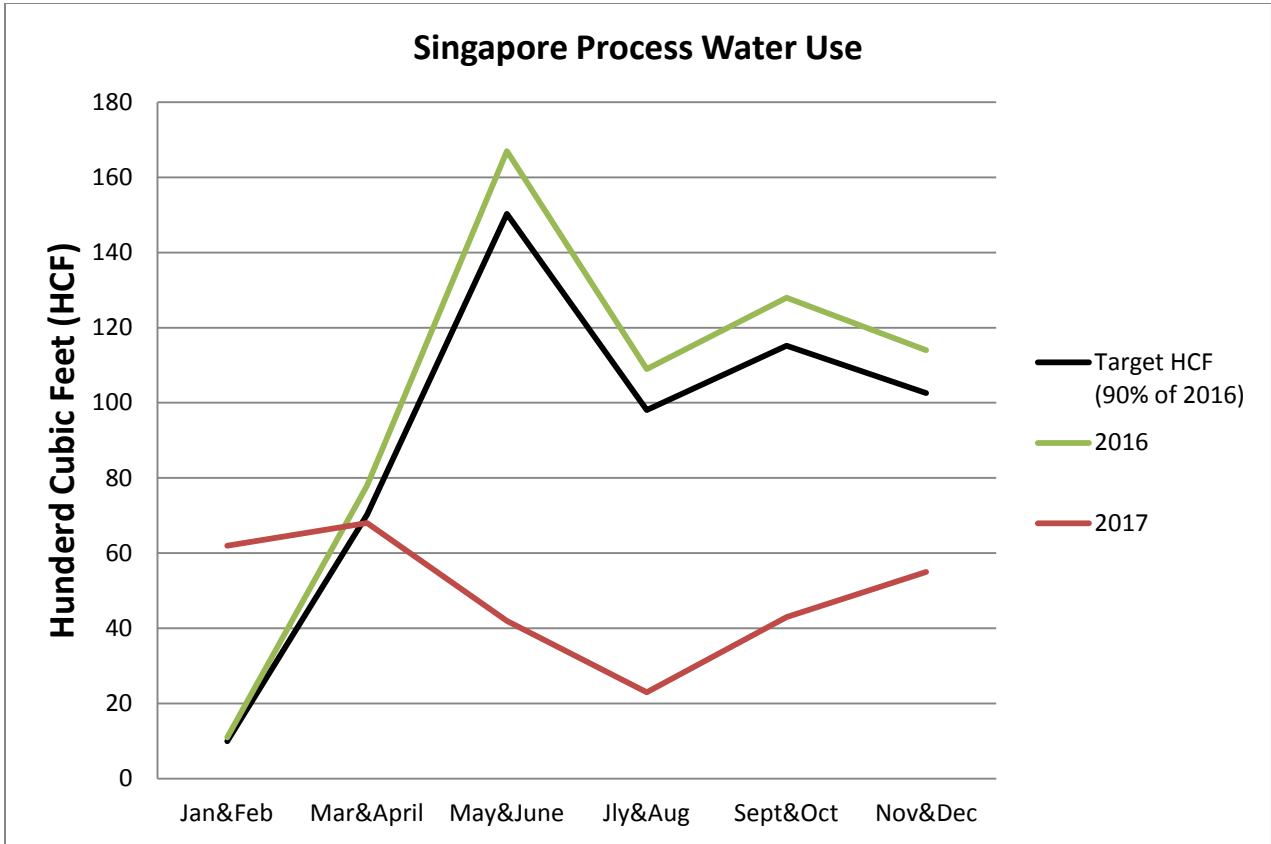
Potable water is used in the San Jose and Singapore facilities as process water for use as:

- Rinse water used in lithographic process activities
- Chilled water for building and process equipment cooling

- Support for various facilities operations

Ultratech has established the goals of reducing the amount of process water used in San Jose to 75% of that used in 2014 and to reduce the amount of process water used in Singapore to 90% of that used in 2014. San Jose has met their goal for the last 3 years and Singapore met their goal in 2017:





Green Metric 4: Use of Electricity (Energy) in the San Jose and Singapore Facilities

The primary use of electricity at the Ultratech San Jose and Singapore facilities is to power facilities equipment that create and maintain clean room conditions and to power manufacturing operations. Ultratech has reduced energy use primarily by upgrading facilities equipment with more energy efficient models.

Ultratech has established the goals of reducing the amount of electricity used in San Jose to 90% of that used in 2014 and to reduce the amount of electricity used in Singapore to 95% of that used in 2016. San Jose met their goal in the second half of 2016 and in all of 2017 and Singapore met their goal in the second half of 2017 and in the first half of 2017:

