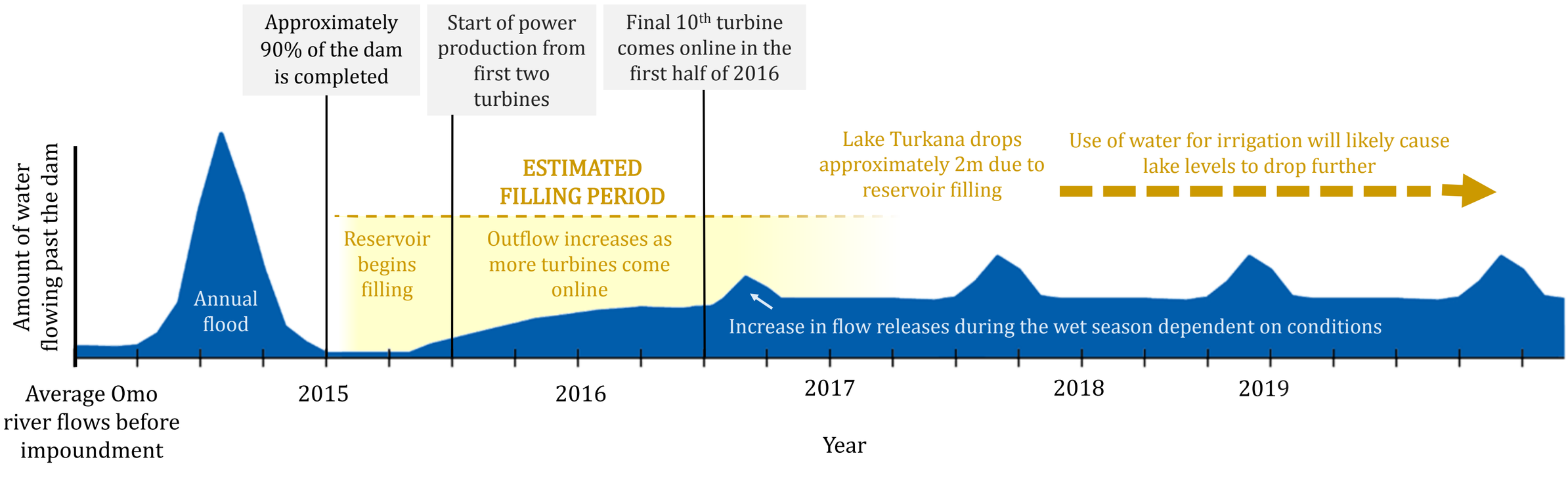
Hydrological Timeline of the Gibe III Dam Filling



The estimate for river flows displayed above contains great uncertainty as it is dependent on many factors, including precipitation levels, the speed of turbine commissioning, electricity production schedules, and the minimum flows released from the dam. The above hydrograph should be viewed as a broad outline of what will happen once the dam begins to fill; note the initial drop in river flows to a minimum release as the reservoir begins to fill, the gradual rise in flows as turbines are commissioned, and finally the homogeneity of flows under normal operations. The filling period is estimated to take up to three years. A proposed artificial flood of 1000 cms lasting 10 days during the first portion of September (for environmental and social mitigation) was not included in this graph as the likelihood of its release is currently unknown.

Estimates for the average outflow at the site and the outflow from the Gibe III once all turbines are commissioned are from SOGREAH Consultants (2010). Estimates for Lake Turkana water levels are from Avery (2012). Estimates for the start of power production and turbine commissioning are from The Reporter (2015).

SOURCES

Avery, S., *Lake Turkana & the Lower Omo: Hydrological Impacts of Major Dam & Irrigation Developments,* 2012, African Studies Centre, University of Oxford.

SOGREAH Consultants, *Gibe III Hydroelectric Project : Independent review and studies regarding the Environmental & Social Impact Assessments for the Gibe III Hydropower Project*, May 2010, European Investment Bank.

The Reporter. *Ethiopia: Gibe III Could Start Power Generation By June.* The Reporter – English Edition, 3 January 2015. Web <http://www.thereporterethiopia.com/index.php/news-headlines/item/2975-gibe-iii-could-start-power-generation-by-june>