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Trip Report

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Figure 1: Saint Peter’s Branch of the “Alm” canal water wheel in Salzburg, Austria. In operation since 2007, the new water wheel provides power to a small flour mill of the ”Stiftsbäckerei” (bakery of the monastery). The overdrift water wheel is 4 m in diameter, 2 m wide, operating at 6 RPM, with an output of 10 kW.

Figure 2: Schloss Nymphenburg (Nymphenburg Palace) below a tumultuous sky in Munich. The central building was completed in 1675 and served as the summer residence of the Wittelsbach family, who ruled Bavaria for nearly 740 years.
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Figure 3: An historic industrial building on the banks of Stockholm’s canal. Interior renovations must be made via rooftop access, because alterations to the exterior of the building is prohibited due to its historic significance. Though perhaps not the most efficient or cost effective goal, Sweden prioritizes preservation of historical sites.
1 Introduction

Through my IGERT fellowship, I was able to travel to Europe from May 16 to July 12, 2014, to explore the conferences, research institutes, and universities in the region. I was in Munich, Germany for the largest portion of this time. This Trip Report is organized by country, in chronological order. It highlights each academic activity I participated in, along with some sightseeing. I’ve included a number of photos documenting these adventures, as well as some general observations made on energy and sustainability in the countries visited.
1.1 Objectives

As stated in my travel application, objectives for this trip were as follows:

Learn how Europe in general, and Germany in particular, are meeting demands for energy efficiency through sustainable design. Study popular design techniques as well as integrated safety features of sustainable design. Discover the level of fire safety measures taken in European sustainable design and whether or not any emphasis has been placed on fire safety as a part of sustainability.