

Project description

Project manager – Innovative high voltage pulse generator

A new generator should be characterized by a higher reliability and cost reduction compared to the previous models.

First, I commissioned two independent research institutes to conduct basic analyses of various generator principles.

My team and I used a functional model to check the key properties and gain experience in building the prototype. This was designed and built as part of a customer project. I was able to meet the ambitious framework of the project.

Objectives and key figures



- ✓ Cost variance from budget less than 20%
- ✓ Efficient project control through new methods
- ✓ Two external team partners evaluated and integrated
- ✓ Heavy-duty components reduced from 18 to 6
- ✓ High-voltage cascade works perfectly up to 250kV
- ✓ New 30kW converter in specification
- ✓ Suitable suppliers evaluated
- ✓ Test scope reduced through simulations
- ✓ Patented safety device



July 2012 – September 2013



Budget 1'000'000 CHF



Seven team members



Mechanical engineering and electrical industry



Patent application
WO2018039807A1

