New RF BAF3 New cooling needs inputs for CV LIU-SPS 20140917

# New SPS RF power plants

Siemens	New	
2 x 1100 kW peak		<b>2</b> x
2 x 750 kW average		<b>2</b> x

SElectrosys2 x 1100 kW peak2 x 250 kW peak2 x 750 kW average2 x 250 kW average

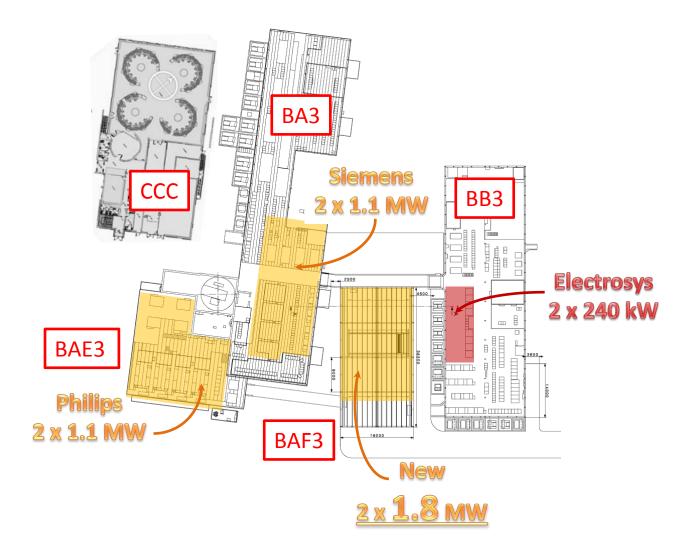
1800 kW peak

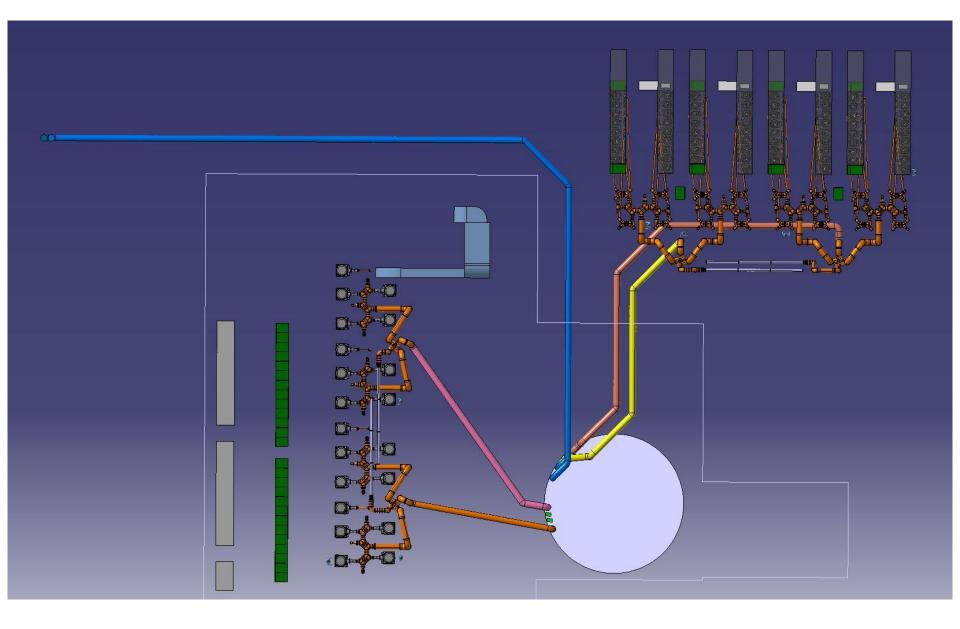
750 kW average

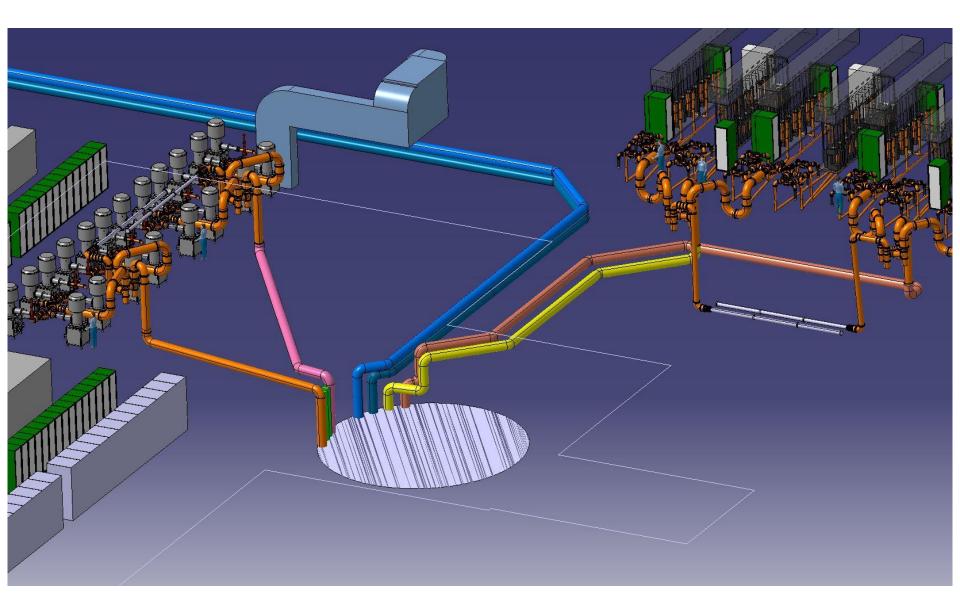
200 MHz - 800 MHz

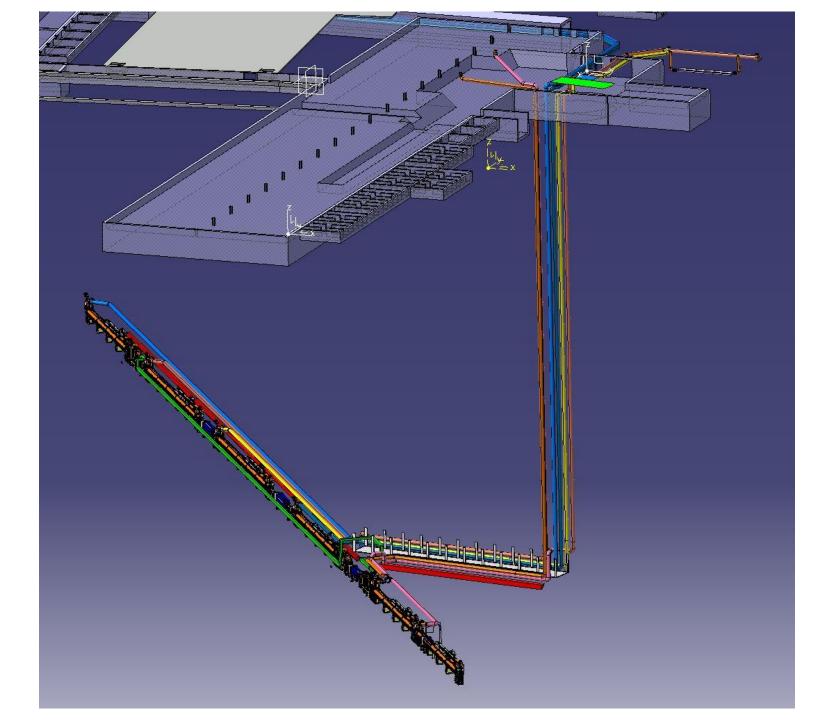
Philips

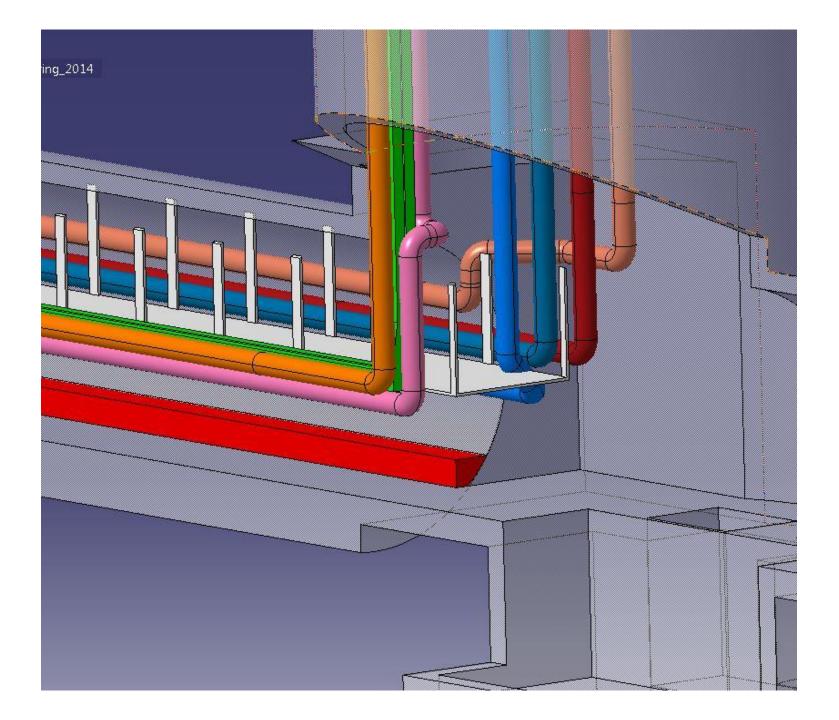
# New SPS RF power plants

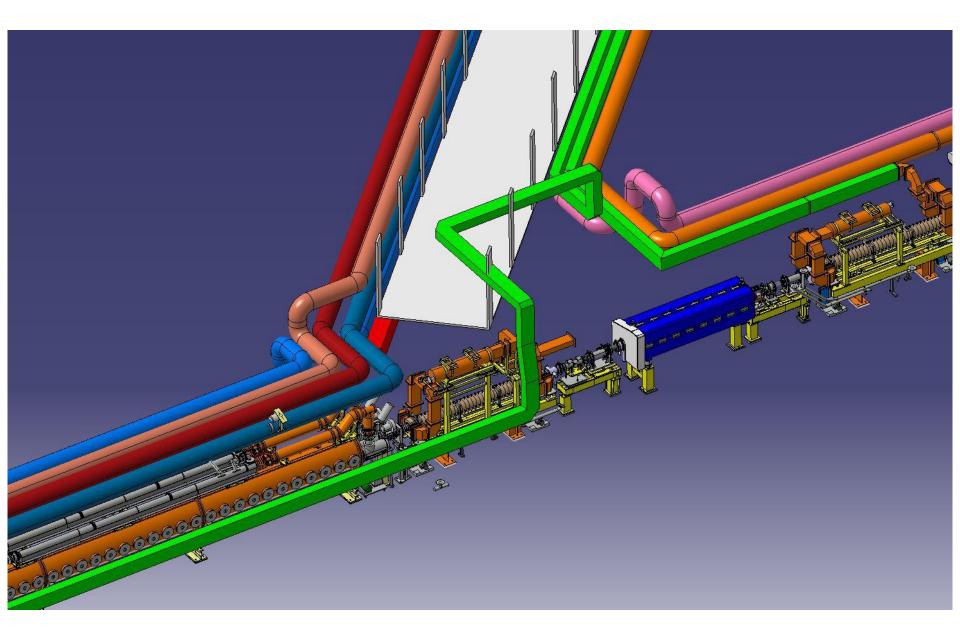


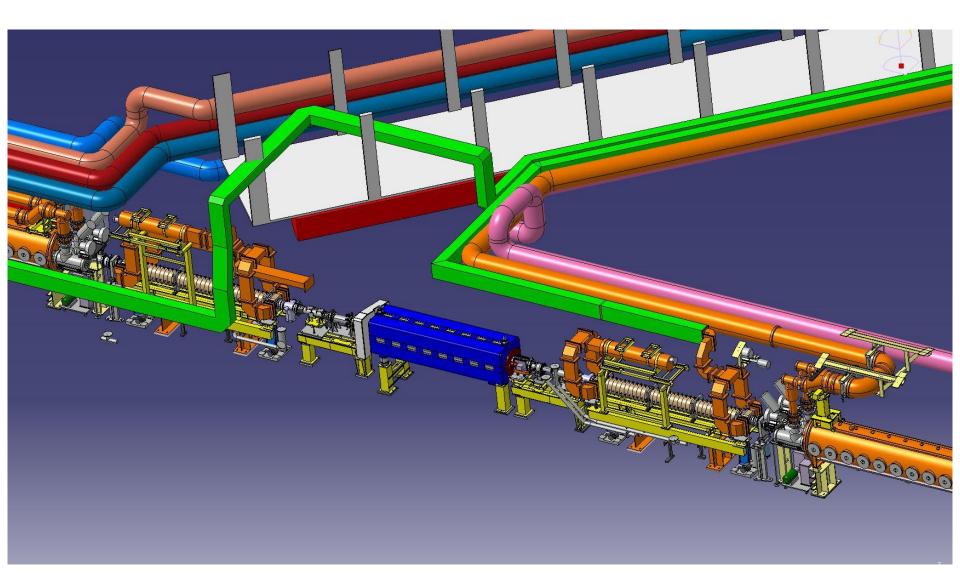


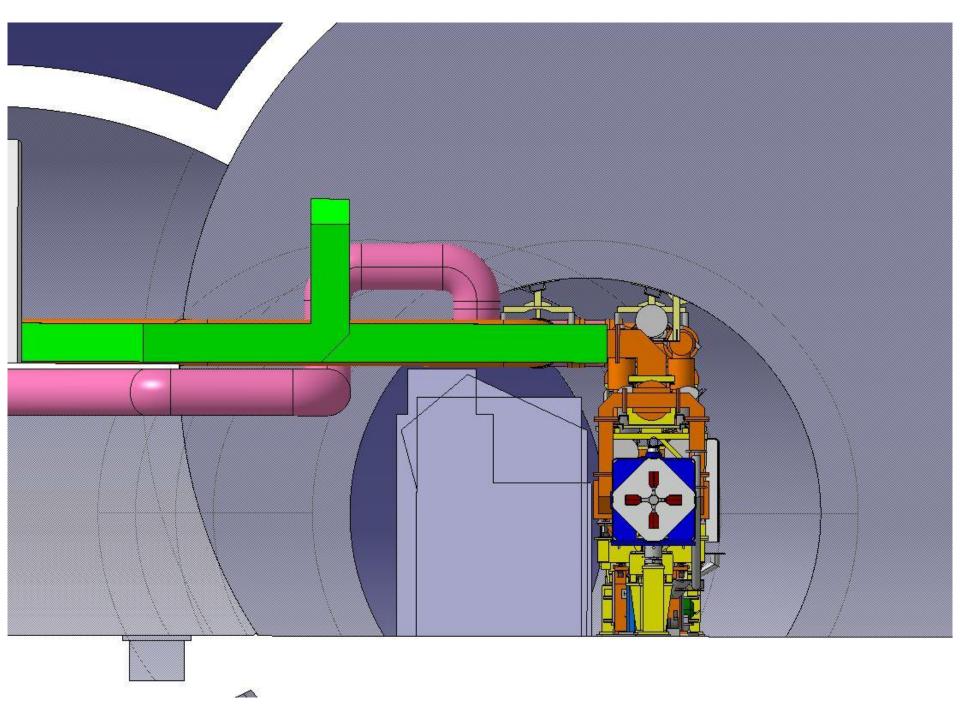


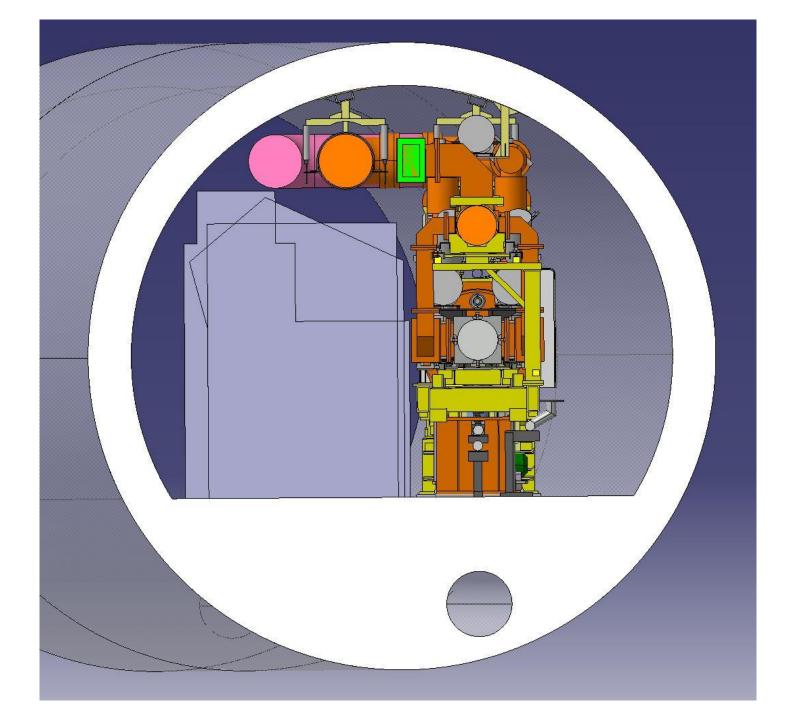


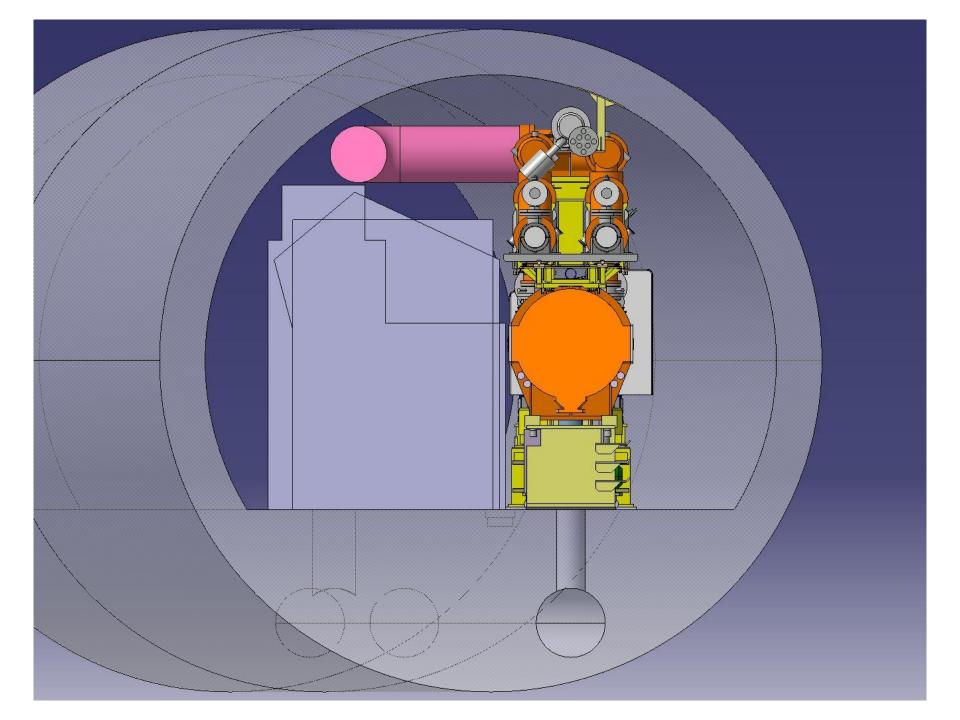


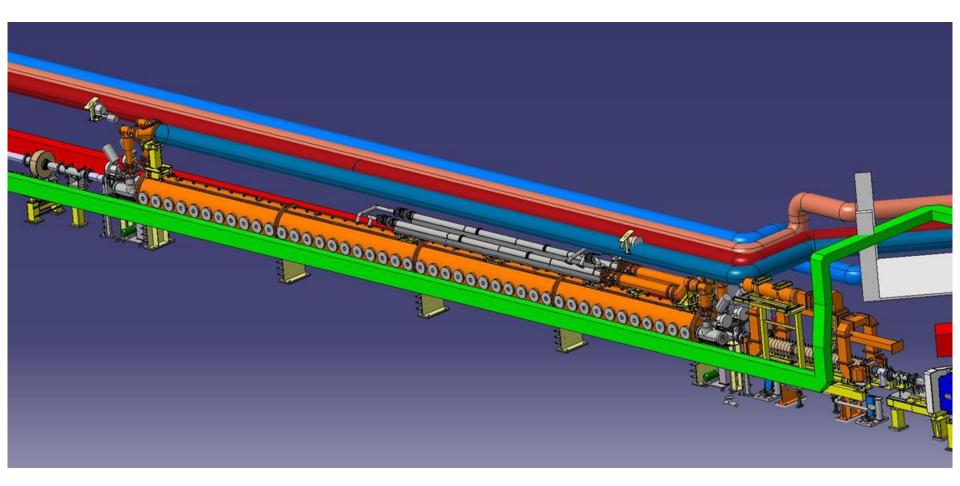


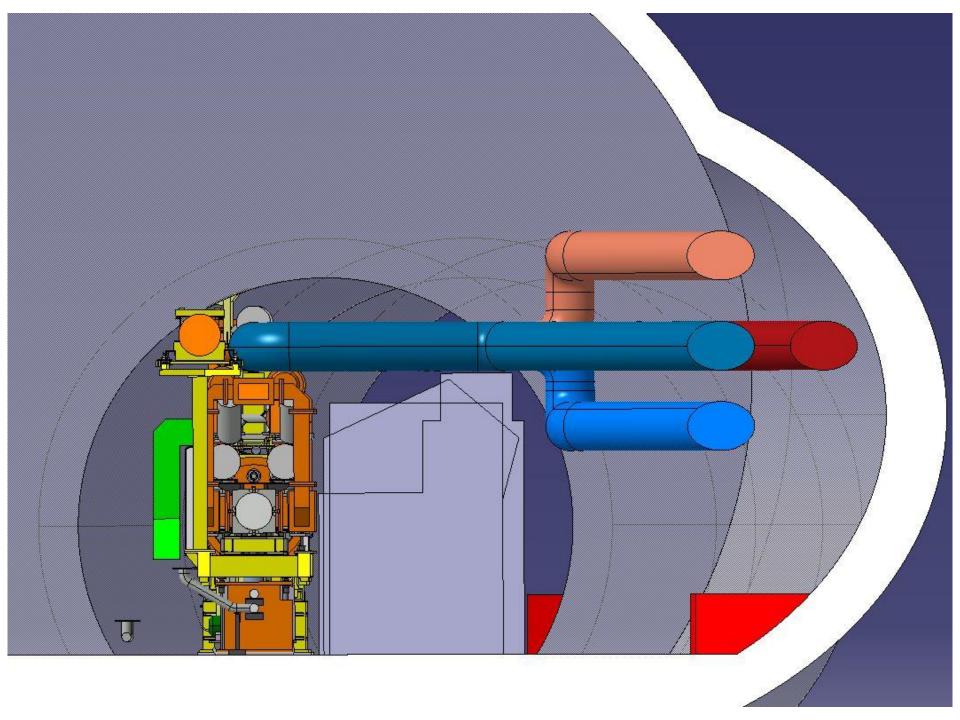


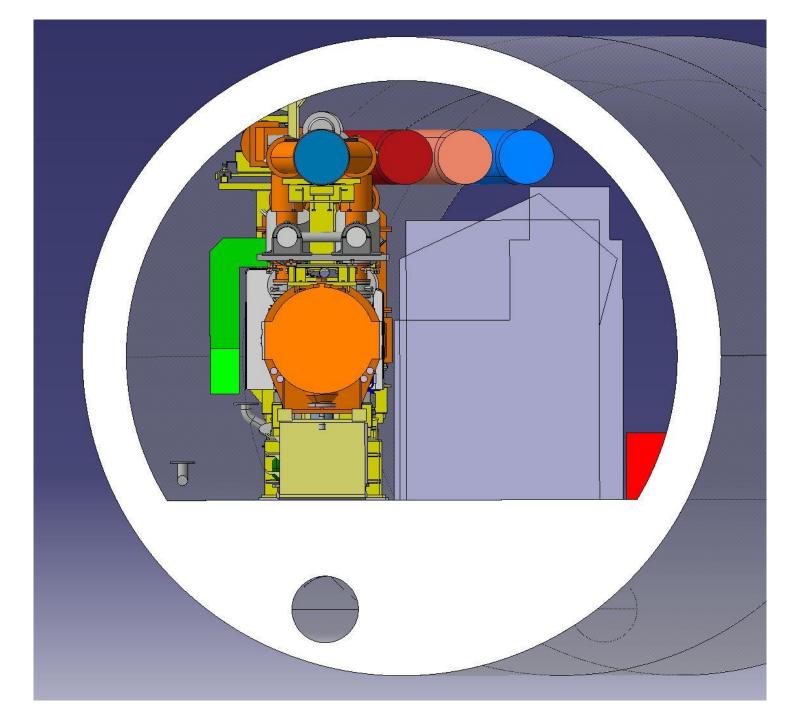


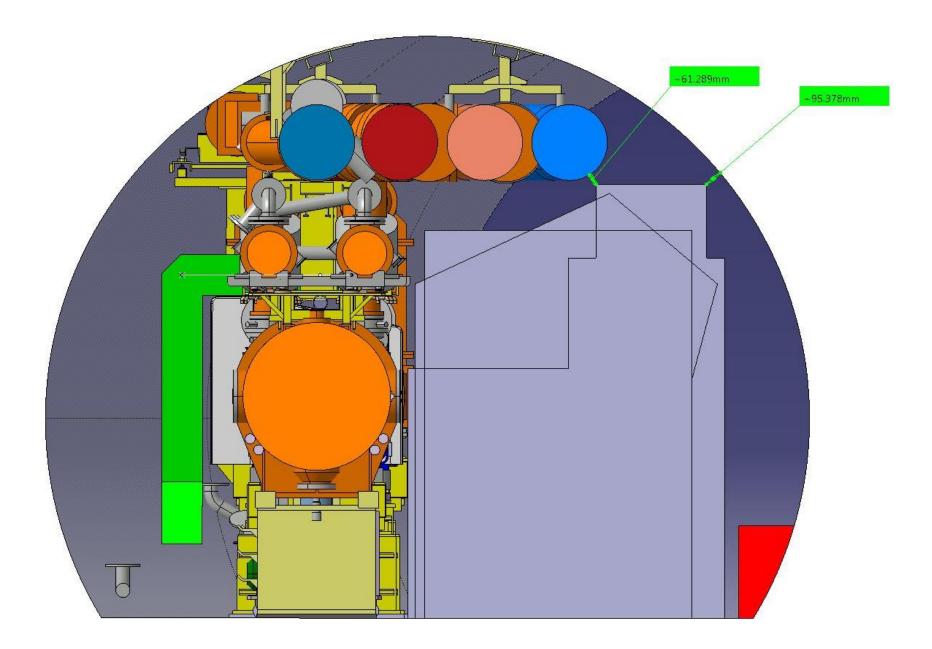


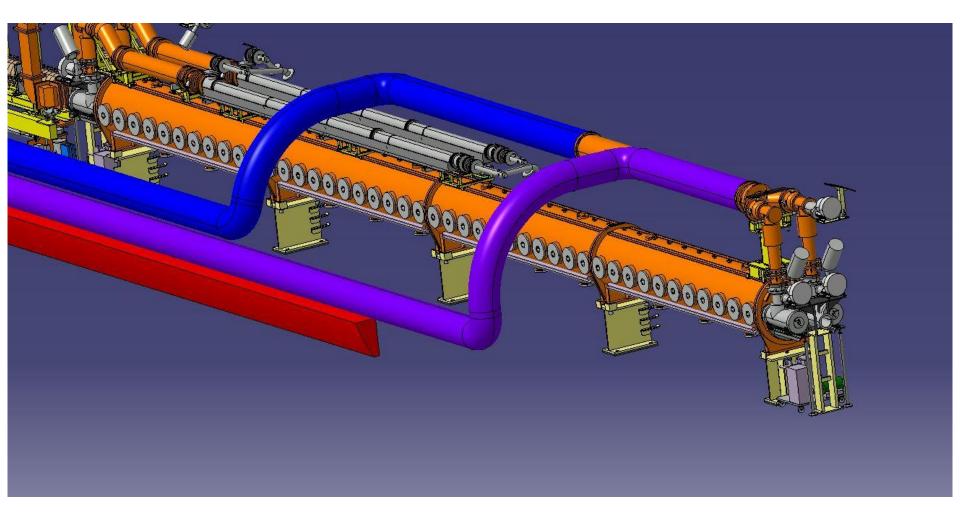


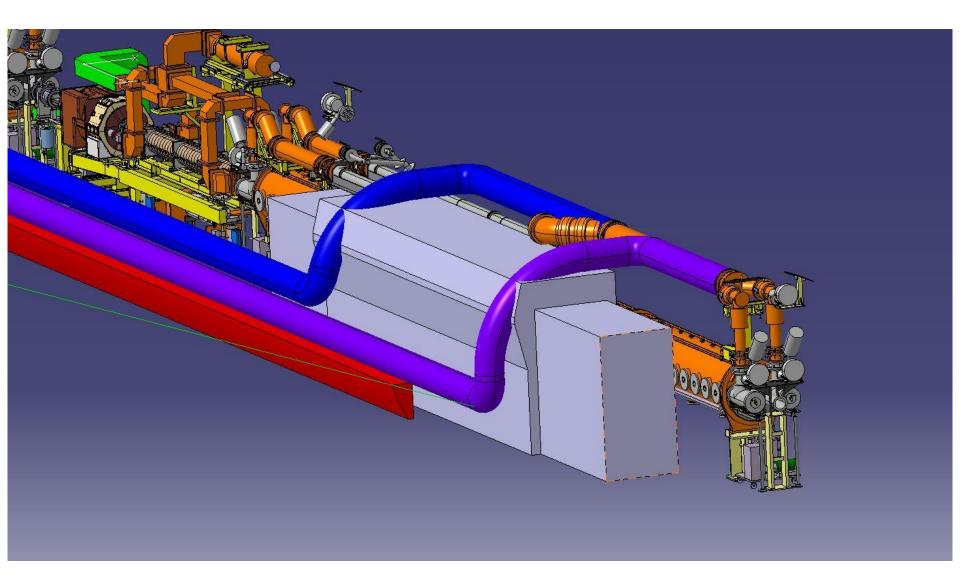


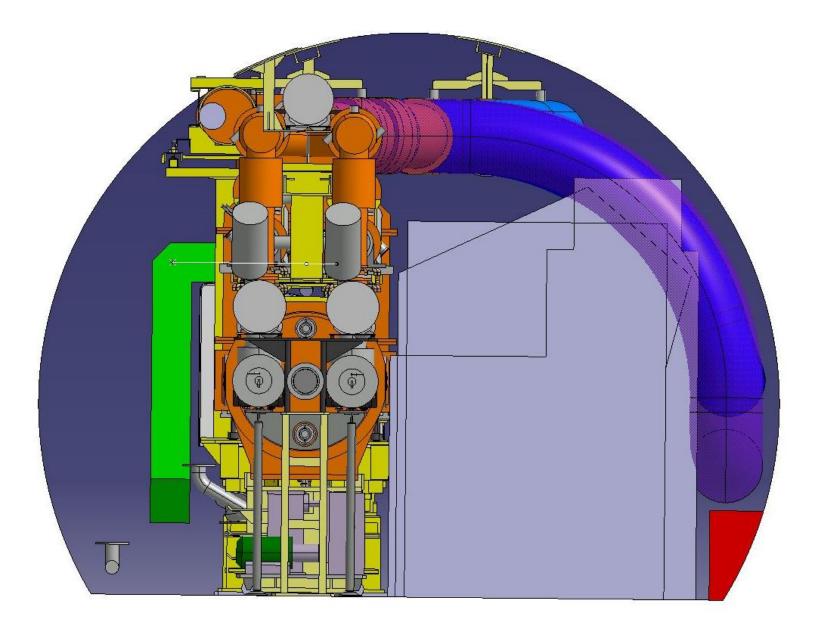


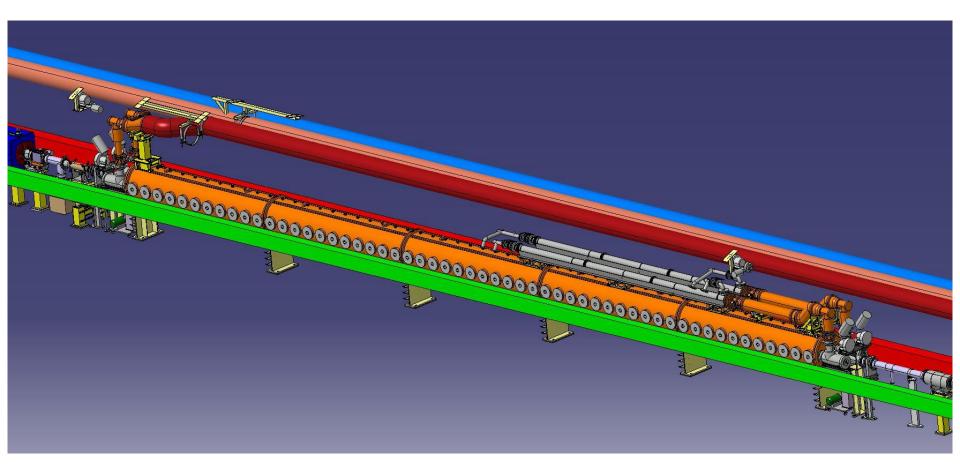


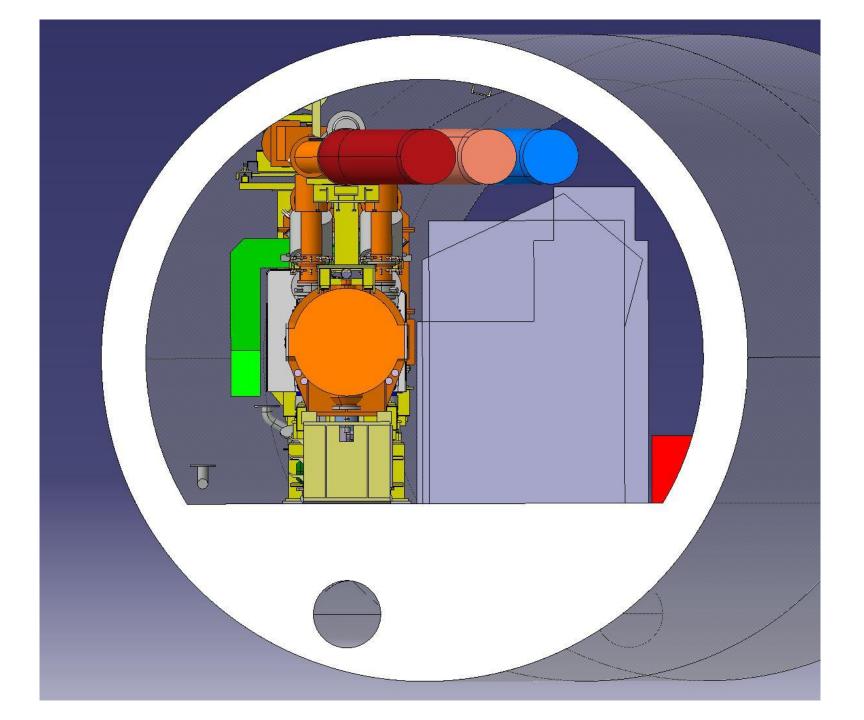


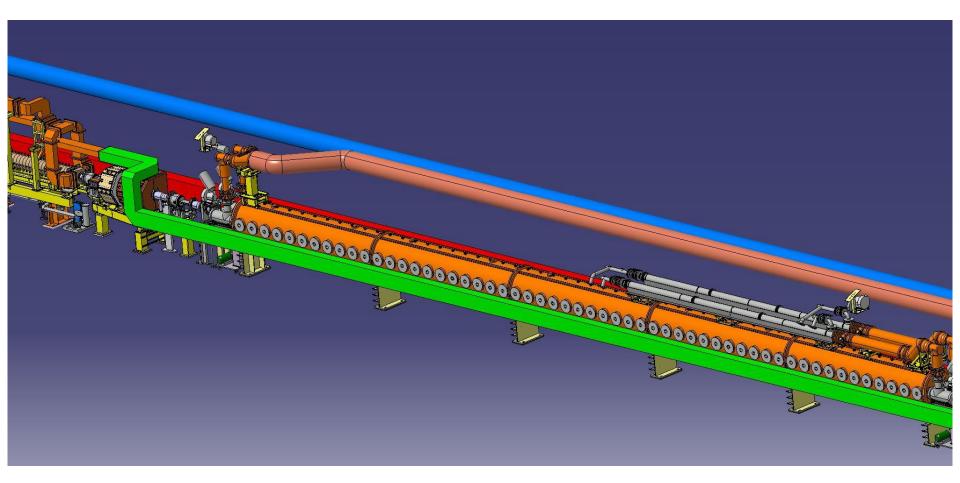


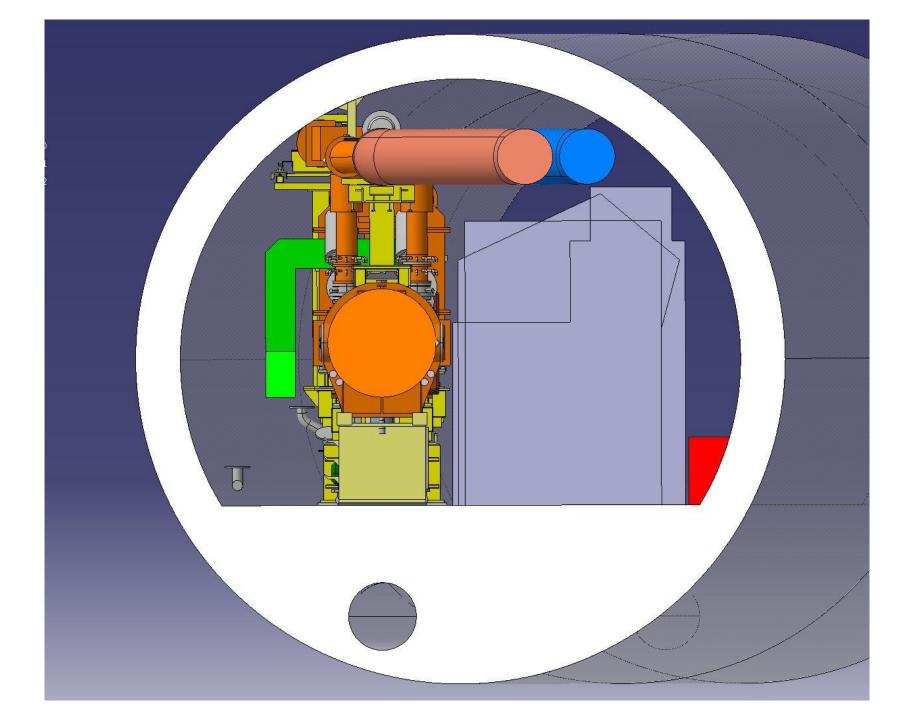


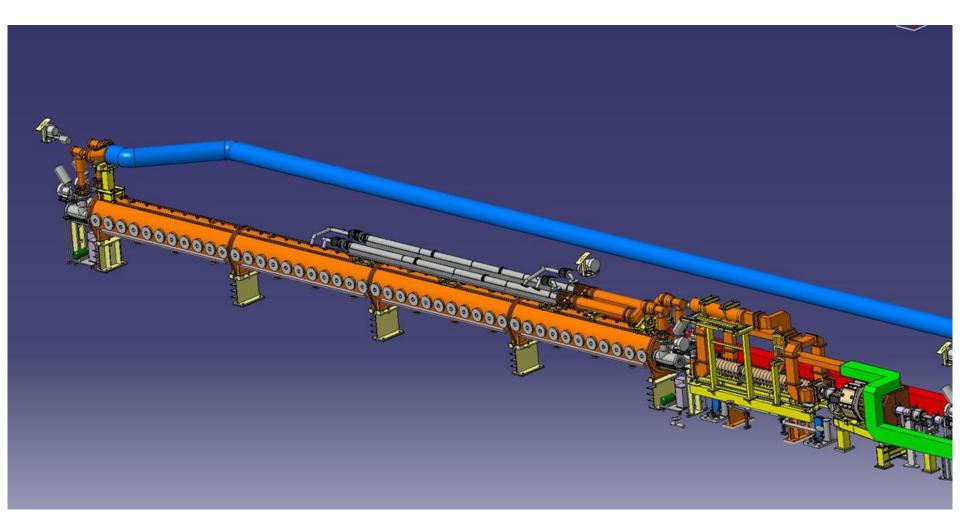


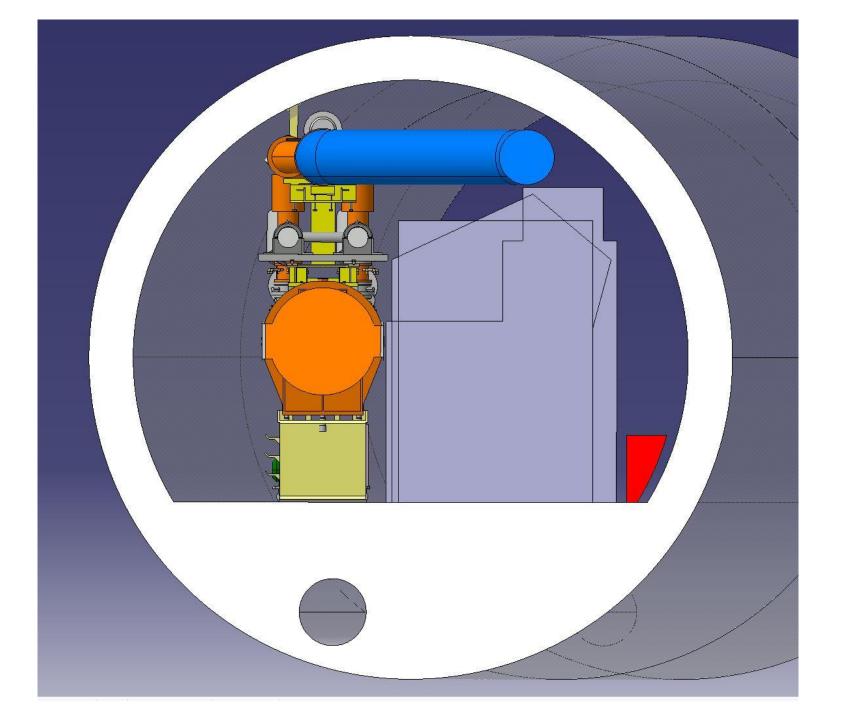










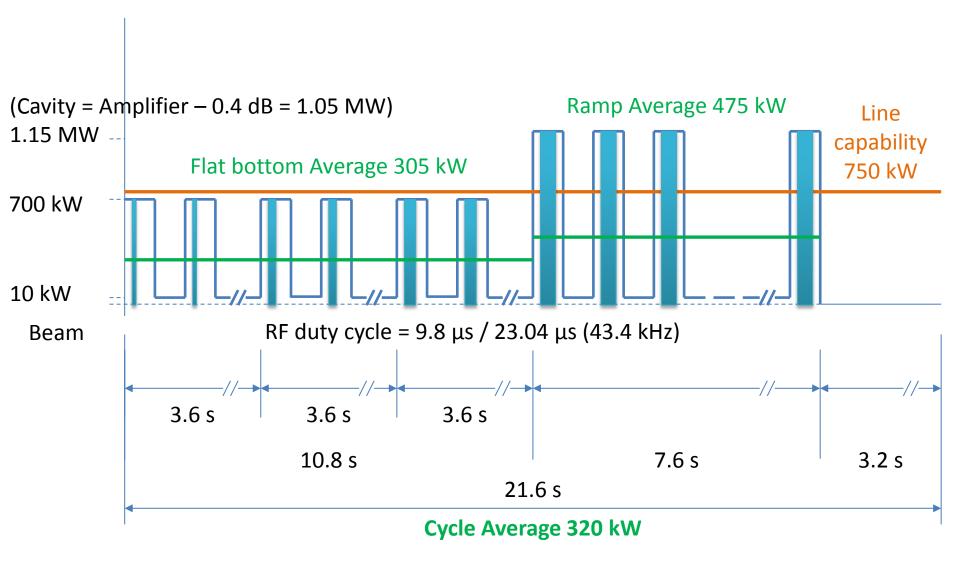


# **Only ONE 350 mm line per cavity**

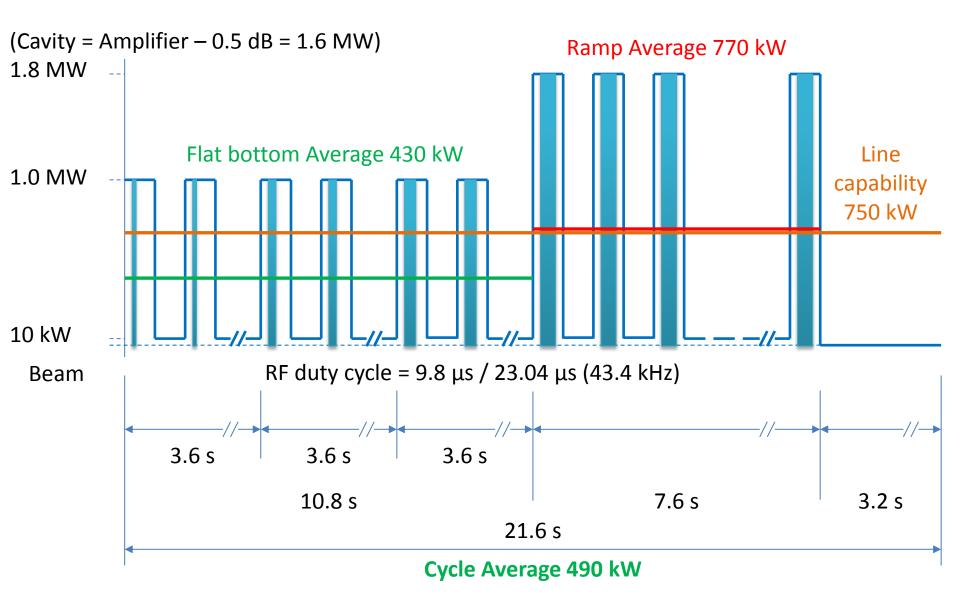
# Maximum ratings 800 kW average

# **Operational ratings 750 kW average**

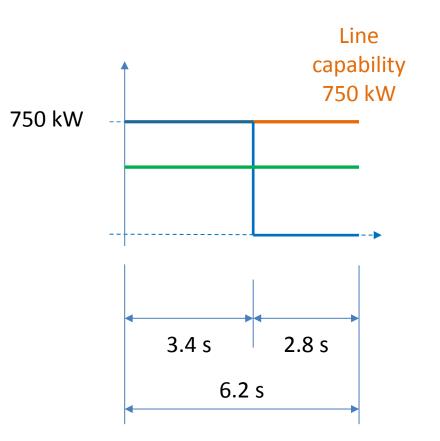
#### Peak and Average power for Present power systems during LHC cycle



#### Peak and Average power for New power system during LHC cycle

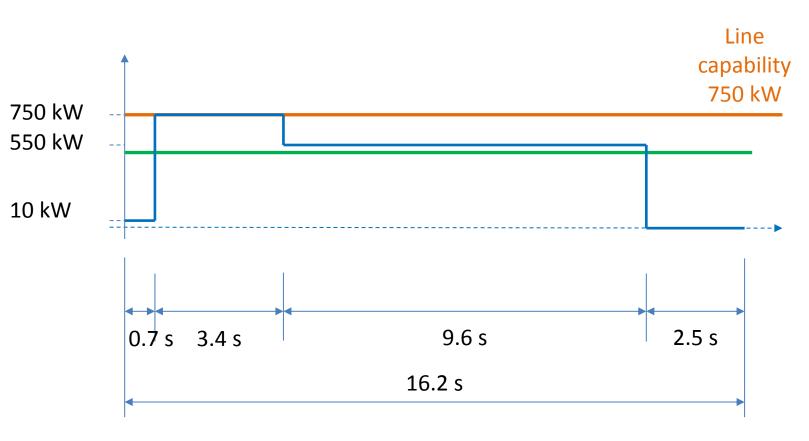


Peak and Average power for Present & New power systems during 'CNGS' cycles



Cycle Average 410 kW

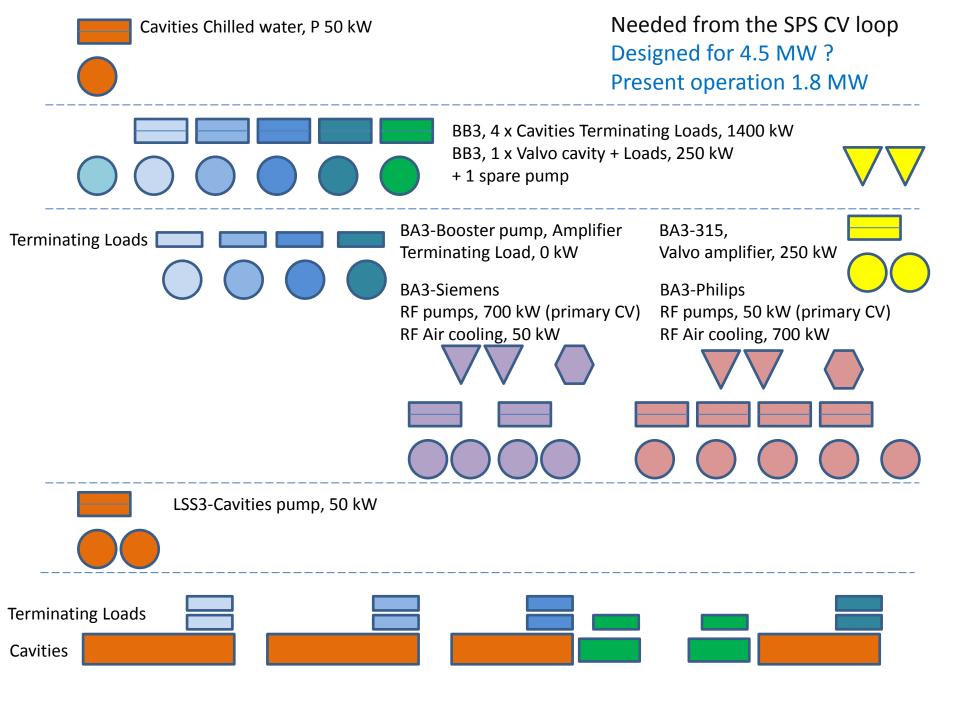
Peak and Average power for Present & New power systems during other cycles

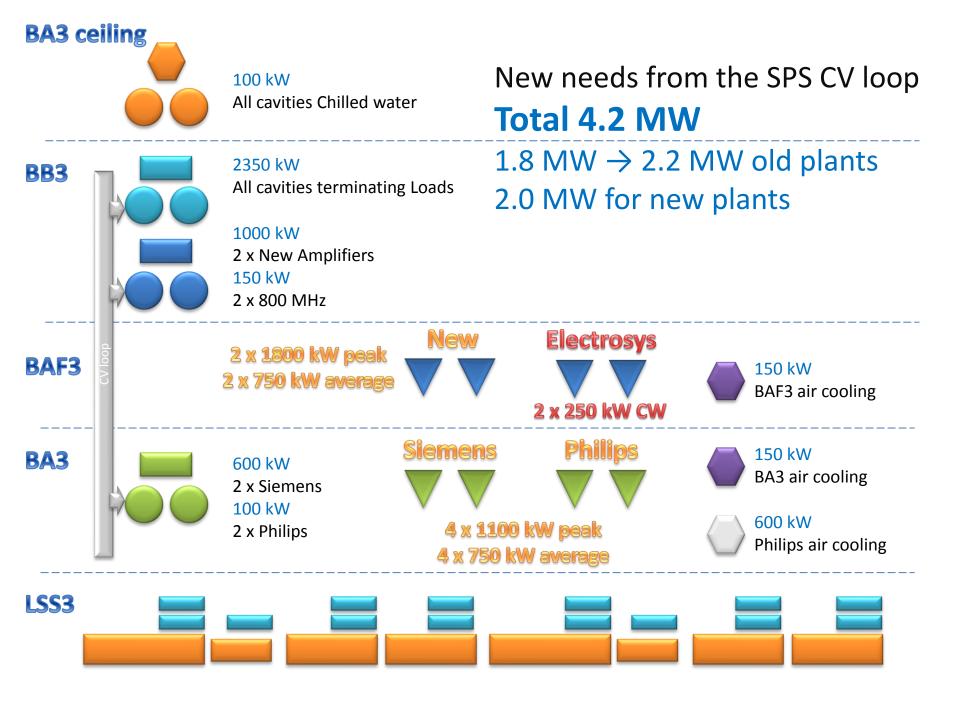


Cycle Average 485 kW

# Needed from CV







### **Regarding LIU RF**

### Additional needs from SPS CV loop 2.4 MW