

Abdulah Lazim Mohamed Converter (ALMC)

NPC Converter for Wind Turbines

Team: Mohamed Aldihani, Lazim Almutairi, and Abdulelah Alajlan

Instructor: Dr. Winfree, Client: Dr.Yaramasu, GTA: Mr. Jason, Mentor: Mr. Kristiyan

Abstract

The project NPC Converter for Wind Turbines by Mohamed Aldihani, Lazim Almutairi, & Abdulelah Alajlan aims to control current, fixed switching frequency, and connection NPC with Grid. The project NPC converter has many devices connected together such as 3 phase power, Yaskawa A1000 Drive, Motor Generator, and NPC converter with host PC

Experiments



Fig.2 NPC Converter project by team.

The output

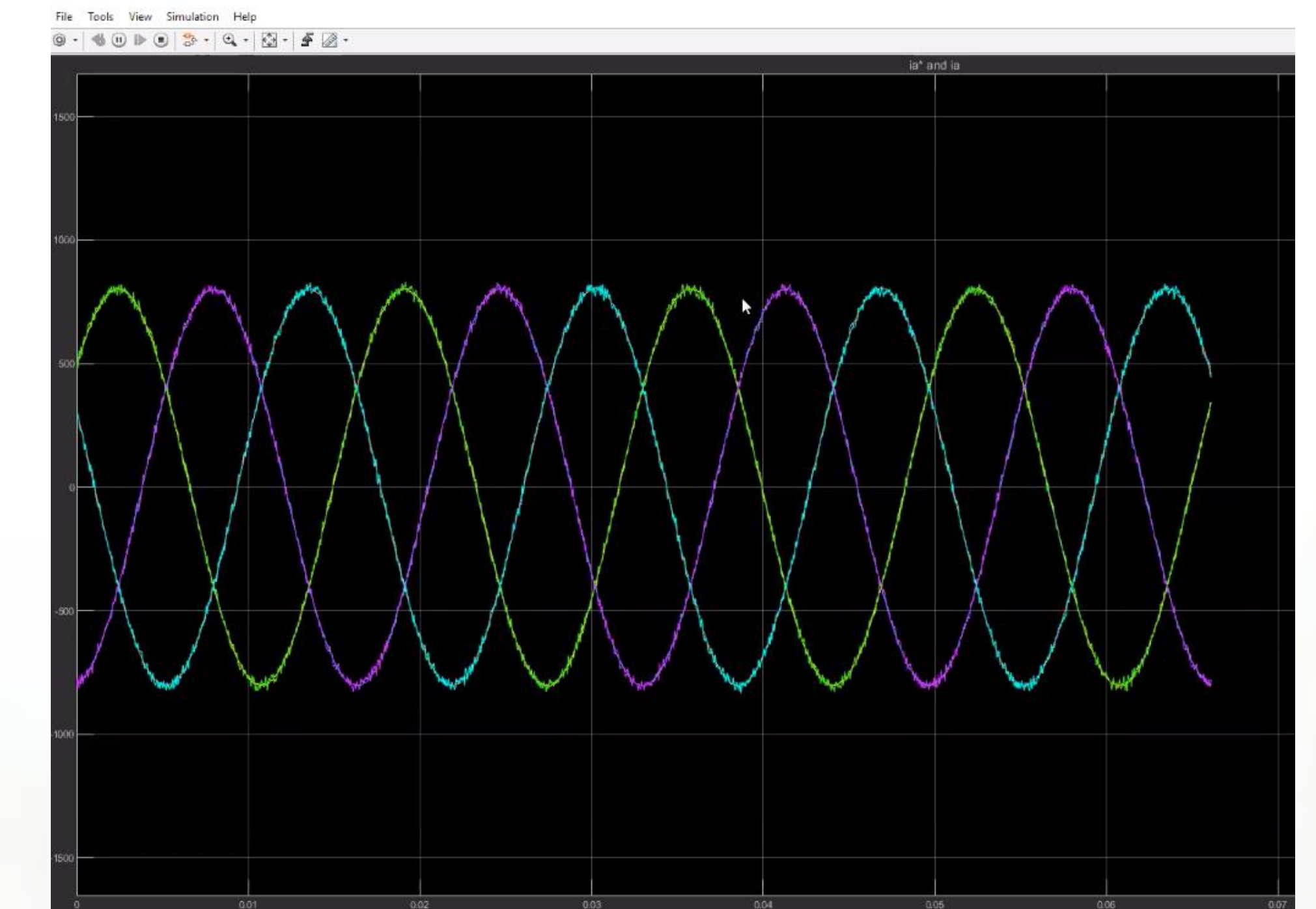


Fig.4. Output AC 3 Phase

Tasks

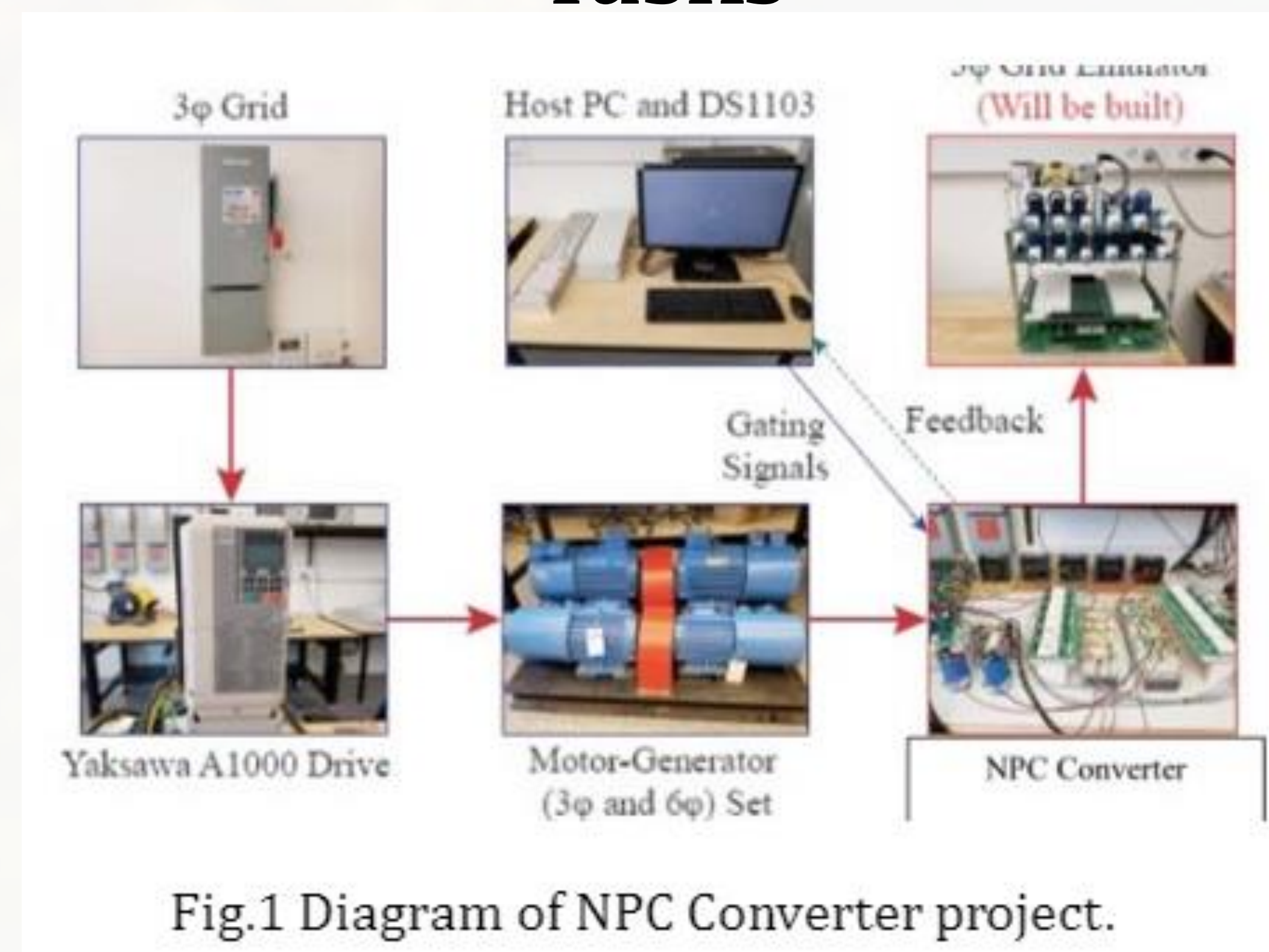


Fig.1 Diagram of NPC Converter project.

Team need to connect all devices and testing.

Simulations

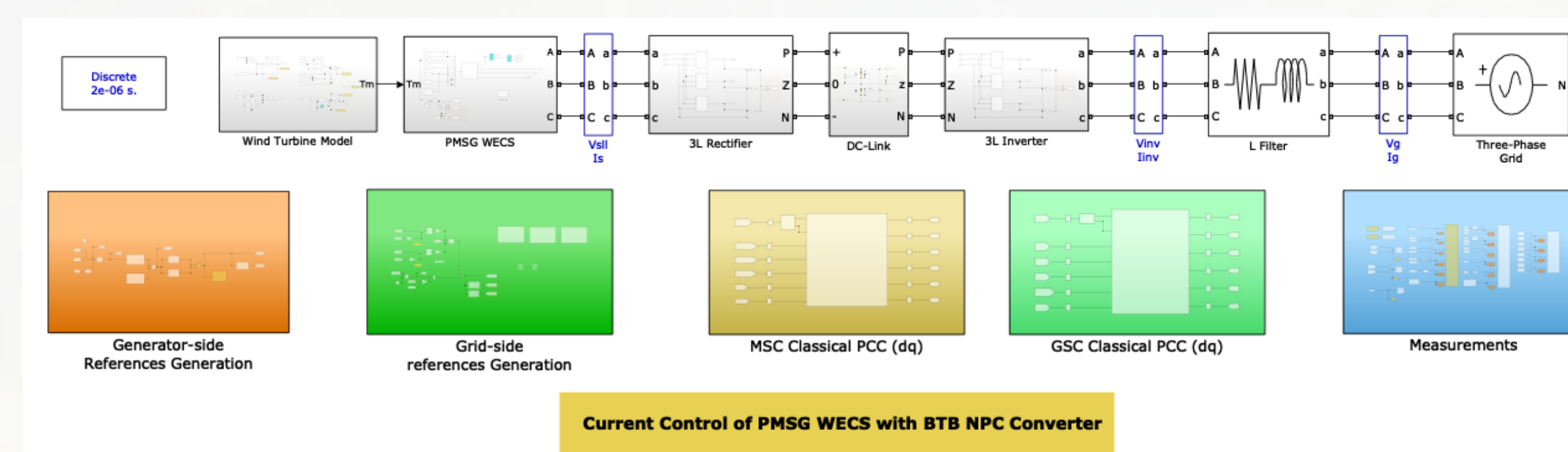


Fig. 3. Simulation NPC Converter for Wind Turbines.

Conclusion

The project NPC converter by Mohamed Aldihani, Lazim Almutairi, & Abdulelah Alajlan is almost done, and the project team with client Dr. Venkata Yaramasu is working hard to finish it on time. The project NPC converter has helped the team to know how to solve problems and think about the best solutions that can help the team to work in practical projects in the future.