

Project Title:

Design of main frame of 2 MW wind turbine by considering domestic manufacturing by MAPNA

Department:	<i>Design modification and manufacturing of WENRI 87-2 wind turbine based on domestic capabilities.</i>	Employer:	<i>NRI</i>
Project Manager:	<i>Aidin Ghaznavi</i>	Project Code:	<i>PWPN02-1</i>

Project Staff: *Aidin Ghaznavi, Babak Moazeni*

Project Summary:

The design of WENRI2 was accomplished by NRI, but the procurement of some strategic components was performed from international suppliers. According to the goals defined for the Wenri2 project, here we are intended to maximize the share of components manufactured internally by redesigning some of them regarding existing facilities. One of the most important components that plays a crucial role in the safety, reliability and life time of the wind turbine is the main frame. Main frame of the Megawatt wind turbine could be manufactured by the casting or welding method. Because of the weight of the main frame, using casting method needs a huge infrastructure. So welding could be better choice for manufacturing domestic main frame. Target of this project is the design of welded main frame that is completely compatible with existing 2 MW wind turbine design.

Project Results:

- Design of the welded main frame for WENRI 87 wind turbine
- Preparing the drawings and manufacturing documents

Project Documentation:

- Minutes of AAR meeting
- Minutes of Technical Commission
- Project Definition Form
- Project status statements