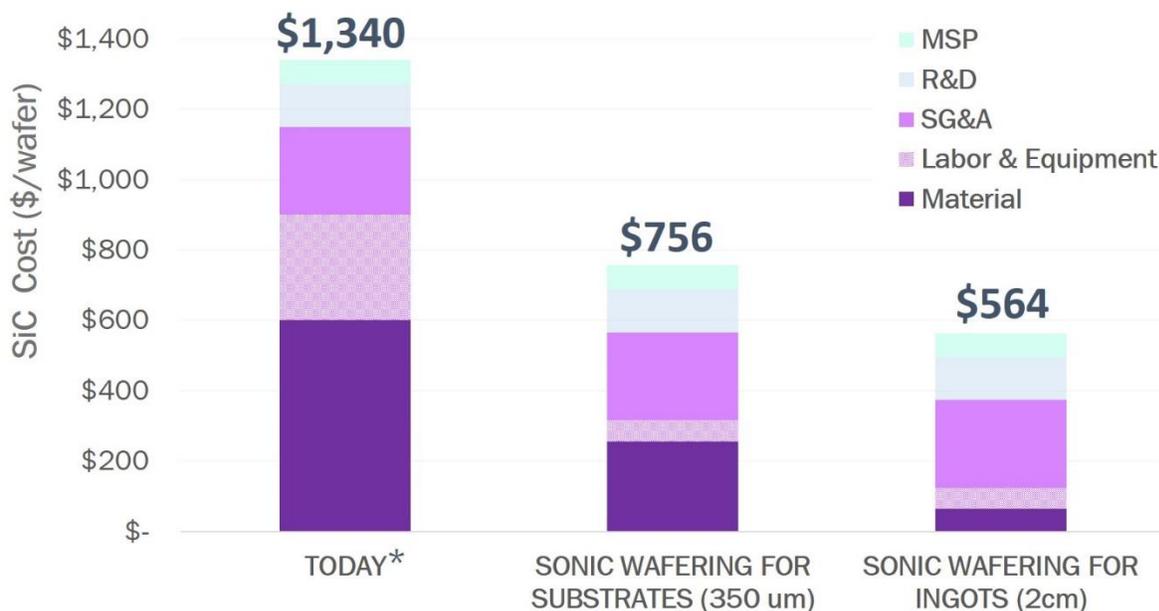


TECHNICAL ASSISTANCE REQUEST (2 pages, including images, will be made public)

Through the competition, we will have two key challenges that a member of the American-Made Network could help with. The most important challenge that we will encounter is to compare the performance of our SiC products with current industrial SiC wafers. In order to successfully track the development of our technology we would need an official entity that could provide device performance certifications. Moreover, to transition this technology into industrialization, we need these certifications as quality evidence of our products to present to potential investors and customers.

The best entity to perform these certifications is the National Renewable Energy Laboratory (NREL). Therefore, collaborating with NREL for the advancement of our technology would help us understand the quality of our products throughout the competition.

Our financial models could also benefit from a collaboration with NREL's Strategic Energy Analysis Center. This group has detailed cost structures for the manufacturing of Silicon Carbide inverters that we could leverage to produce updated and refined projections relevant to our business plan (see Figure 1).



* Horowitz K, Remo T, Reese, S. A Manufacturing Cost and Supply Chain Analysis of SiC Power Electronics Applicable to Medium-Voltage Motor Drives. (2017). Technical Report, NREL/TP-6A20-67694

Figure 1. SiC wafer cost comparison with our Sonic Wafering technology