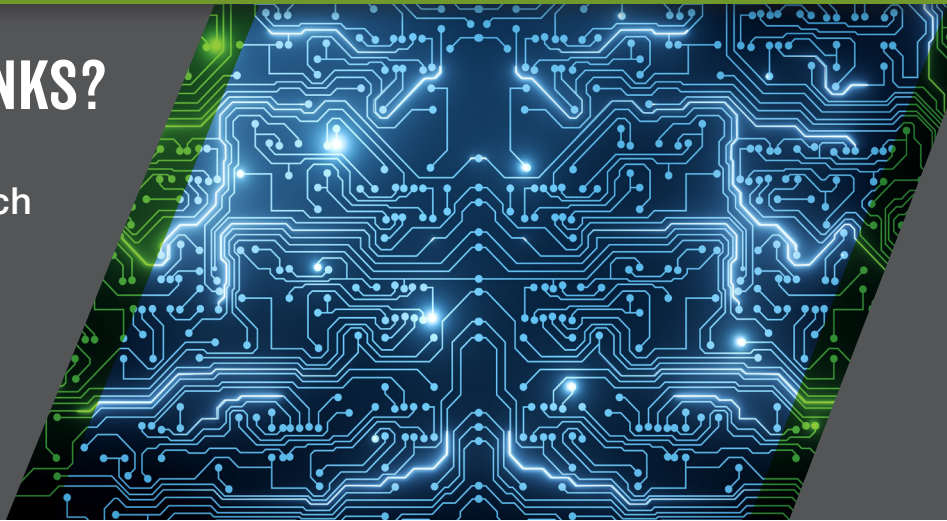


WHAT ARE CONDUCTIVE INKS?

- Conductive inks are infused with conductive materials which enable printing of electrically conductive surfaces
- Conductive inks facilitate production of flexible, stretchable and potentially self-healing electrical circuits



ADVANTAGES OF COAL

Advanced carbon materials such as graphene, graphite, and quantum dots can be produced from domestic coal and significantly lower the costs of conductive inks.

R&D ACTIVITIES



NETL Research & Innovation Center

Developing scalable chemical and physical processing methods for manufacturing advanced carbon materials directly from domestic coal



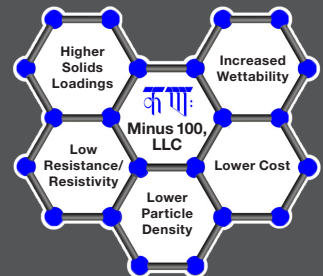
CHALLENGES

- ✓ Optimizing coal-based manufacturing processes and scaling up
- ✓ Improving final product properties such as resistance, conductivity, and durability



Minus 100 LLC

Developing new or improved methods of manufacturing conductive ink pigments using coal as a primary feedstock



<https://www.netl.doe.gov/project-information?p=SC0018694>