



ENrG Inc. has developed state-of-the-art capabilities in printing, handling and firing large format ceramic substrates through its participation on two funded development contracts^{1,2}. ENrG Inc. met its goals in these efforts, resulting in depositing uniform, thin layers exceeding 600 cm² active areas with low cost screen printing.



¹New York State Research and Development Authority's Contract 8612, "PATTERNING OF LARGE ACTIVE AREAS ON CERAMIC MEMBRANES FOR SOFC SYSTEMS", 2004

²National Institute of Standards & Technology Advanced Technology Program award, "Scalable Planar Solid Oxide Fuel Cell Technology for Beyond 200 kW", 2005

Stretch Your R & D Dollars

ENrG Inc. provides a cost effective, confidential avenue to explore technical alternatives and resolve challenging technical issues.

Quick Turn Prototyping

Contract R&D and Engineering

Contract Manufacturing

Ceramic Technology Expertise

Tapes – Commercial/Custom

Toll Services

- Custom SOFC components
- Tape casting and ceramic processing
- Screen printing and dispensing on planar substrates
- Coatings
- High temperature air firing

ENrG Inc.



Ceramic Technology for Clean Energy

ENrG Inc. Develops and Manufactures Critical Ceramic Components for Clean Energy Systems

ENrG Inc. specializes in the development and manufacture of ceramic membrane and coating technologies for energy applications such as solid oxide fuel cells

ENrG Inc.
Ceramic Technology for Clean Energy

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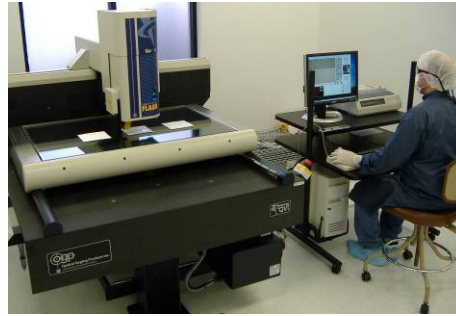
Large Area Capabilities



- Maximum print area
24" x 24" (600mm x 600mm)
 - 3600 cm²
- Print thickness ≤ 10μ
- Ability to measure parts up to
36" x 24" (900mm x 600mm)
- Tape widths up to 13.75" (350mm)
- High temperature furnacing
(≥ 1600°C)
- Class 10,000 cleanroom

Products

- High purity kiln furniture
- Custom and standard liners, cover plates and tape



In addition to handling of large membranes and assemblies, ENrG personnel have key knowledge in multi-layer ceramic processing, zirconia ceramic materials, setting/furnacing issues, patterning, and electrical testing.



Translating Technology into Products

ENrG's strength is transitioning laboratory concepts into manufacturable products. ENrG collaborates with customers to address details and ensures cost effective and consistent products.



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