

## Carbon XPRIZE Competition: EE-AGG Team Abstract

### Team Founder(s):

- *Mark Edelman, PhD, EE-AGG Team Coordinator, Boone IA*
- *John Wooley, Business Executive, Austin TX*
- *Dave Stevens, Rural Electric Cooperative, Woodbine IA*
- *Eric Wagner, PhD, PE, Process Engineering, Technip-FMC, Claremont, CA*

### Key EE-AGG Team Collaborators:

- Zhichao Wang, PhD, Carbon Consultant, EcoEngineers, Des Moines, IA
- Ron Oligney, CEO, ZEEP Inc., Austin, TX
- Sultan Bakhit H.A. Al-Enazi, Chief Business Excellence Officer, Qatar Fuel Additives Company Limited, West Bay, Doha, Qatar
- Greg Carr, Managing Director, Extiel-GPG LLC, Houston, TX

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### Description:

EE-AGG LLC combines existing commercial scale technologies in new ways for carbon capture and conversion to produce a flexible array of high value products. EE-AGG carbon capture is represented by Shell Cansolv technology demonstrated at Unit #3, Boundary Dam Power Station, Estevan, Saskatchewan, CAN. EE-AGG's CO<sub>2</sub> conversion includes steam methane reforming (SMR) and syngas to methanol synthesis demonstrated by Qatar Fuel Additives Company Ltd., at Mesaieed Industrial City, Qatar. Additionally, EE-AGG is exploring scaling strategies for higher value product mixes including waxes, solvents, and renewable base lubricant oils using smaller scale SMR and Fischer-Tropsch technologies by Extiel-GPG of Houston, TX.