

# Midwest Alliance for Clean Hydrogen (MachH2) Hub

- Over 60 partners across 8 Midwest states, with projects concentrated in Illinois, Indiana, and Michigan.
- Rich diversity of existing and new clean generation resources including nuclear, renewables, and blue hydrogen production (natural gas with carbon capture and sequestration)
- Focused on decarbonizing sectors that are hard to decarbonize including heavy duty vehicles and aviation, agriculture, and heavy industry (refining, steelmaking, and glassmaking).
- The Midwest brings together supply of clean energy, strong existing infrastructure, a highly skilled workforce, significant H2 demand, favorable geology and policy for carbon storage, and access to major freight routes

<p>Major regional hydrogen value-chain partners</p> <p>In-place H2 offtake customers</p>	<p>Energy Feedstock</p> <ul style="list-style-type: none"> <li>• Renewables (wind)</li> <li>• Nuclear</li> <li>• Fossil fuels</li> </ul>	<p>End-Uses</p> <ul style="list-style-type: none"> <li>• Electrical power generation</li> <li>• Industrial</li> <li>• Transportation</li> <li>• Other (agricultural)</li> </ul>	<p>Production Technologies</p> <ul style="list-style-type: none"> <li>• Electrolysis</li> <li>• Thermal conversion</li> </ul>	<p>Connective Infrastructure</p> <ul style="list-style-type: none"> <li>• H2 pipelines</li> <li>• H2 carriers</li> <li>• Above ground H2 storage</li> <li>• H2 fueling stations</li> </ul>
<p>H2 technology RD&amp;D expertise from leading National Labs and technology deployment organizations</p>				
<p>Leading research universities supporting workforce development and entrepreneurship</p>				
<p>Minority-serving Institutions (MSI) and DAC-serving institutions</p>				
<p>Local CBOs, non-profits, and government agencies</p>				

# Solutions Working “to transform” Industry and Transportation To Clean Hydrogen (SWITCH) Project as Part of MACH H2



- Industrial & Transportation End Users
  - 3 Manufacturers + 4 HD Fleet locations
  - 10 tpd of new H2 demand with 60 tpd potential
- Community Engagement
  - GTI Energy will lead the Community Benefits Plan (CBP) for the industrial and transportation partners to align with the MachH2 CBP framework.
- Hydrogen Safety & Training
  - GTI Energy’s one-day Fundamentals of Hydrogen virtual reality module/course will be expanded and tailored for the partners and participants of the Mach H2 hydrogen hub.

