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Is it too good to be true? An obvious solution is to use bio-ETBE, widely used in Europe, Latin America and Japan in concentrations of up to 22 vol% (about 10 vol% ethanol equivalent).

- It can be blended directly at the refineries
- It can be shipped via pipelines
- It has low vapor pressure (no 1 psi waiver needed)
- Low Reid vapor pressure (RVP) reduces volatile organic compound (VOC) emissions
- High octane and low RVP promote reduction of aromatics (carcinogenic precursors)
- Less water absorption, less corrosion, no azeotropes
- Proven user of 10 vol% ethanol-equivalent in gasoline without harmful effects

ETBE is produced in the US in minuscule amounts for export. This can be remedied by converting existing MTBE facilities to ETBE by substituting bio-ethanol for methanol.

blending operations and technology. Recently, he has been involved in the IMO 2020 bunker blends, recipes and ISO 8217 specs. Earlier in his career, he was a Group Head with Exxon Research & Engineering Co., President of 3X Corp. and Vice President of ABB Simcon, all in the area of fuels blending. Mr. Barsamian holds BS and MS degrees in electrical engineering from City University of New York.

correlations and octane boost, and naphtha and butane blending. He also teaches the gasoline, diesel and bunker blending optimization section of RAI's blending public course. He previously worked previously at Catholic University of Louvain in advanced modeling and optimization. He holds BS and MS degrees in chemical engineering with honors from the University of Calabria in Italy.



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About 35 words