Biogas RNG Project Delivery Best Practices

AD Biogas RNG Industry Discussion

August 2023



Intro to GreeneTec

- RNG Project Advisory Services
- Leading Edge Equipment Representation
- Education / Webinars
- Website with resources (ie Industry Directory)
 - www.greene-tec.com
- Biogas.tv

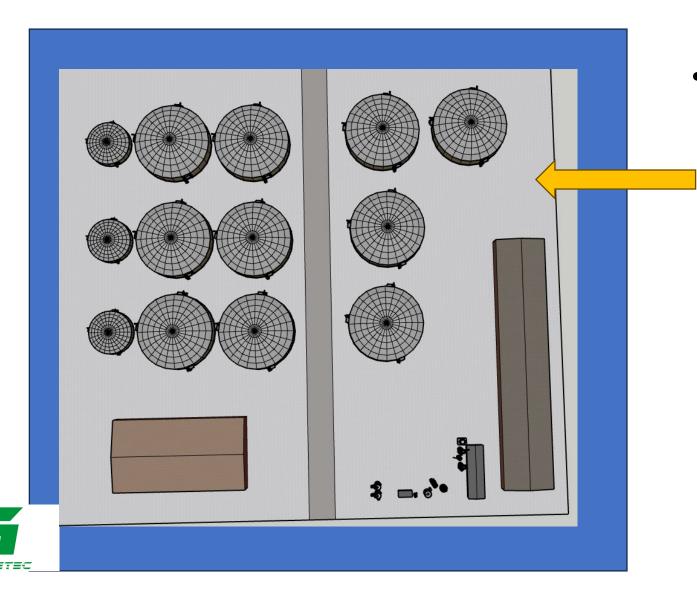


Next Webinar – Sept 7 on the ITC and Domestic Content





A goal of EPC Contracting......



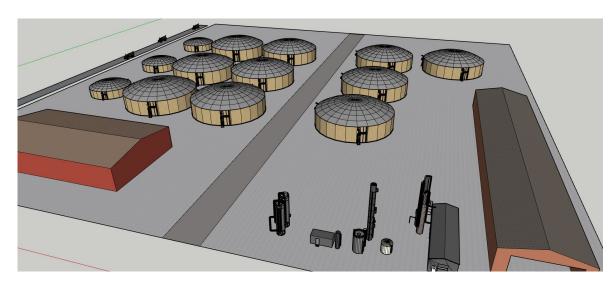
- Be able to work with your EPC so they are comfortable saying "I've
 got all of this"
 - Equipment
 - Piping
 - Electrical
 - Rigging
 - Structural
 - Process Performance
 - Schedule Risk
 - Commissioning
 - Within a given boundary

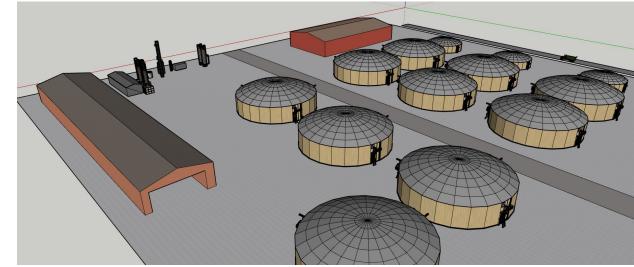
Getting the attention of an EPC Firm

- Be an educated buyer.
 - Understand what the system looks like that you want to buy
 - Also give the EPC the flexibility to modify the approach so you can
 - Secure a process guarantee from them
 - Avoid the EPC feel like you are "jamming" them with an approach that is either unproven
 or that they have not had a chance to provide proper buy-in
 - Be reasonable on schedule for proposals and deliverable.



New 3D Rendering Design





No Cost 3D Renderings based on standard shapes on drag & drop interface



Some goals for today

- Listen for:
 - How does the project arrive at a final construction price?
 - How does the buyer protect themselves to ensure the risk allocation and reward to the EPC is fair and feels like a real partnership?
- Think about a path forward.
 - We as an industry have no standards for what we desire for deliverable packages and what we call them
 - Other industries.....use FEL 1, 2, 3....... Other terminology
 - We have no standard:
 - Contracts
 - Specifications



Some thoughts on 10% ITC Bonus for Domestic Content

- Three Key Features to be made in the US
 - All Structural Steel
 - All Concrete
 - Manufactured Products to a minimum 40% threshold
- On getting to 40%
 - Most European pieces of equipment are lower cost than their US versions
- It might not be worth the fight



Is the Manufactured Content requirement worth the fight?

- The May guidance document from IRS is requiring extensive measures from suppliers:
 - Price breakouts to high levels that show component costs and further breakouts to direct part and labor cost.

Part III - Administrative, Procedural, and Miscellaneous

Domestic Content Bonus Credit Guidance under Sections 45, 45Y, 48, and 48E

Read this Study this

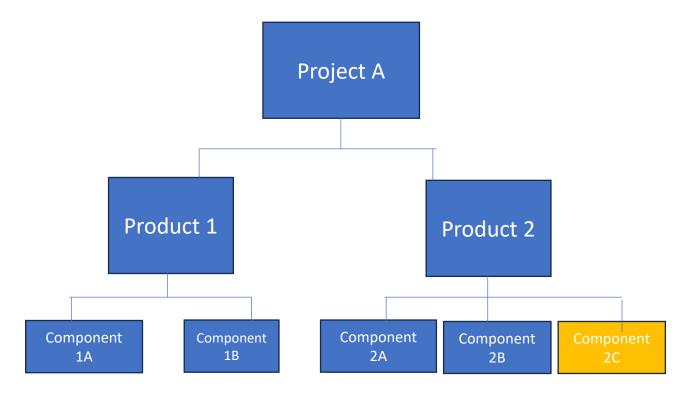


IRS Example

Table 1 - Direct Costs of Manufactured Products 1 and 2

Asset	Cost
Manufactured Product 1	\$100
Component 1A	30
Component 1B	45
_	
Manufactured Product 2	\$200
Component 2A	30
Component 2B	50
Component 2C	100

Applicable Project A's Domestic Manufactured Products and Components Cost consists of the cost of Manufactured Product 1 (\$100), Component 2A (\$30), and Component 2B (\$50) for a total of \$180. Applicable Project A's Total Manufactured Products Cost consists of the cost of Manufactured Product 1 (\$100) and Manufactured Product 2 (\$200) for a total of \$300. Applicable Project A's Domestic Cost Percentage is 60% (\$180 divided by \$300). Applicable Project A satisfies the Adjusted Percentage Rule because its Domestic Cost Percentage of 60% exceeds the adjusted percentage. Thus, Manufactured Products 1 and 2 are both deemed to have been produced in the United States under the Adjusted Percentage Rule.



= US Manufactured
= Foreign Manufactured

Is the Manufactured Content requirement worth the fight?

Potential Nightmare scenario and supplier rebellion

(c) <u>Total Manufactured Products Cost</u>. The Total Manufactured Products Cost for an Applicable Project is the sum of the costs of each <u>Applicable Project Component</u> that is a Manufactured Product. For purposes of determining the Total Manufactured Products Cost for an Applicable Project, the cost of an Applicable Project Component that is a Manufactured Product includes only <u>direct costs as defined in § 1.263A-1(e)(2)(i)</u> that are paid or incurred within the meaning of § 461 by the manufacturer of the Manufactured Product to produce the Manufactured Product. For purposes of this

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Oh No:

- Example \$200,000 US Centrifuge
- Can't use the \$200,000 total price
- IRS is looking for the \$100,000 ish direct costs

IRS is requiring

- Breaking prices out by component
- Only looking at "Direct Costs" of labor and materials





If the Manufactured Product Requirement were only this easy

<u>Item</u>	<u>Domestic</u>	Non- Domestic
Digesters		12.5
Steel Tanks	8	
Boiler	0.7	
Gas Upgrader	6.5	
Final Compressor	1	
Flush Water Screens		0.6
Screw Presses		0.8
Flare	0.4	
Totals	16.6	13.9
Percent Domestic	54%	



Thank you

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