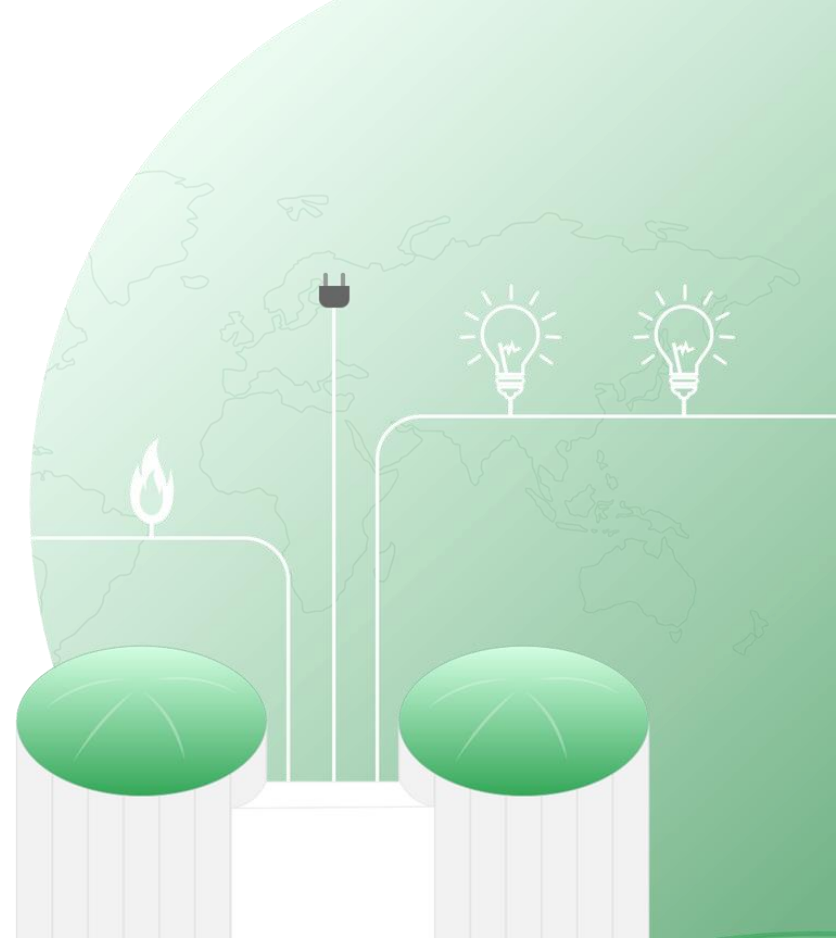


8th Web Seminar

# Values, Post-Treatment & Digestate Application – II

Digestate: Challenges & Solutions  
in South Africa



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 857804. The sole responsibility for the content of this document lies with the authors. It does not necessarily reflect the opinion of the EU.



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# GreenCape & South African biogas market

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GreenCape is a non-profit organisation that drives the widespread adoption of economically viable green economy solutions.

Through stakeholder engagements, we identify barriers, to be unlocked, and enablers for the development and growth of the biogas market and broader green economy within South Africa.



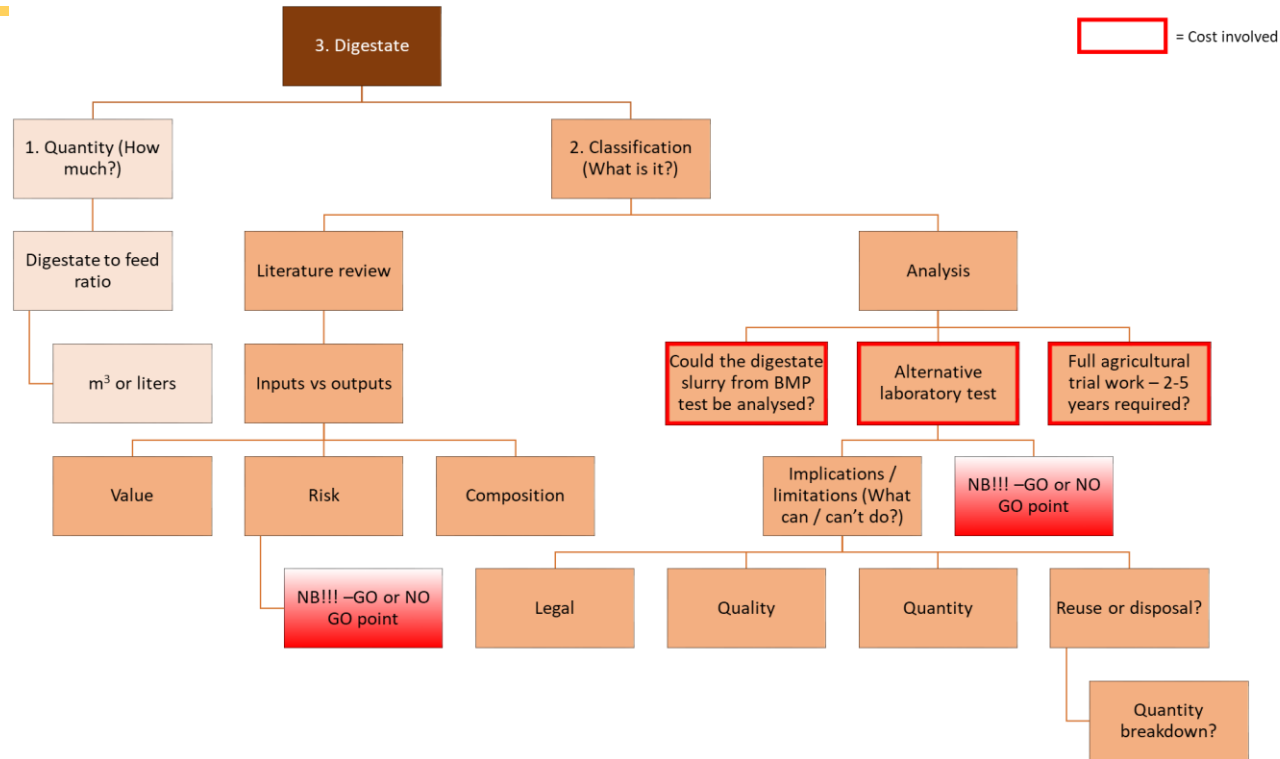
# Digestate management in SA

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Very important

- Often overlooked – nutrient rich -> use in agriculture section
- Not so simple in SA
- Can have a big impact on project operations

# Digestate management in SA



UNIDO (2018) - Annexure B: Biogas project development life cycle.

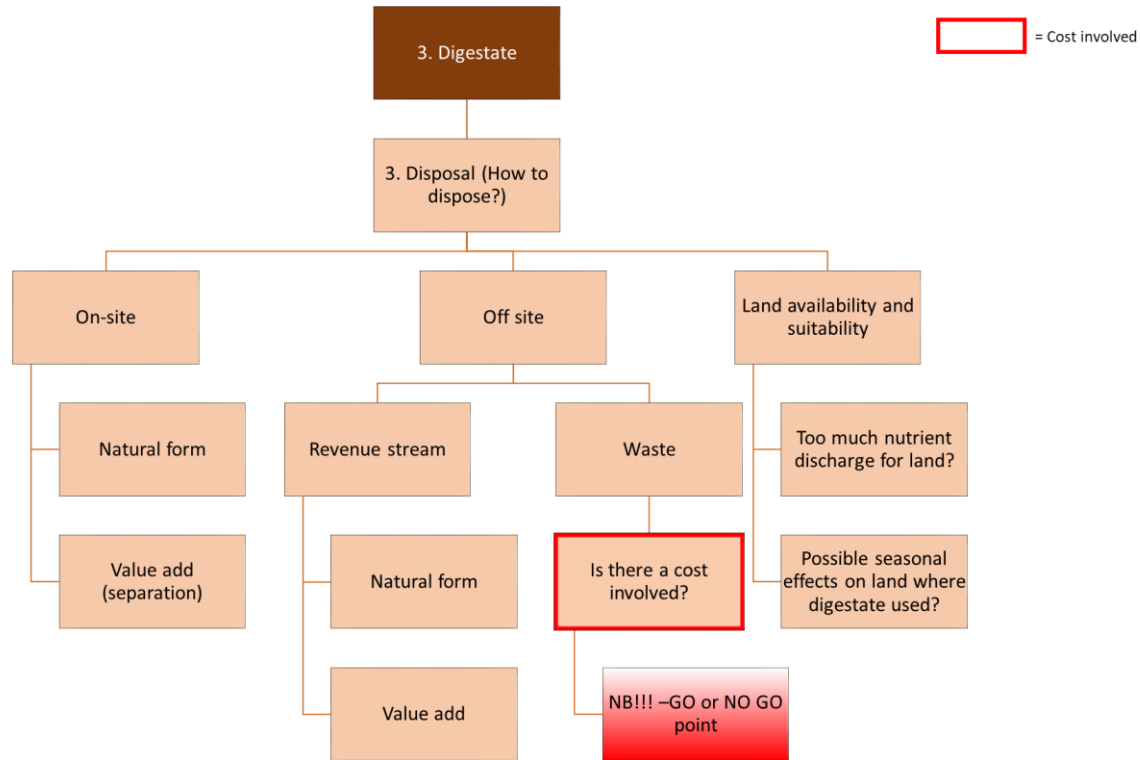
<https://unfccc.int/sites/default/files/resource/Biogas%20to%20Energy%20Project%20Development%20Methodology.pdf>

pdf





# Digestate management in SA



UNIDO (2018) - Annexure B: Biogas project development life cycle.

<https://unfccc.int/sites/default/files/resource/Biogas%20to%20Energy%20Project%20Development%20Methodology.pdf>

pdf



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# Digestate management in SA

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Legislation applicable

- Act 36 of 1947 - Fertilizers, Farm feeds, Agricultural remedies and stock remedies act (DALRR)
- Act 59 of 2008 - National Environmental Management: Waste Act (D:EFF)
- Water by-laws (DWS)

# Case studies in SA



Bayside Mall\*



Zandam Cheese & Piggery



New Horizons Energy

GreenCape (2017). *The business case for biogas from solid waste in the Western Cape.*

<https://www.greencape.co.za/content/biogas-business-case/>

\*image from <https://www.jgafrika.com/portfolio/bayside-mall-sustainable-interventions-4/>



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# Case studies in SA

Case study example	Zandam Cheese & Piggery	Bayside Mall	New Horizons Energy - Athlone
Digestate management strategy	<ul style="list-style-type: none"> <li>Package as a soil enhancer</li> </ul>	<ul style="list-style-type: none"> <li>Partnership with off take solution provider, i.e. composter</li> </ul>	<ul style="list-style-type: none"> <li>Liquid / solid separation</li> <li>Solid component to off take solution provider, i.e. composter</li> <li>Liquid disposed of in sewage drain</li> </ul>
Digestate management barriers	<ul style="list-style-type: none"> <li>Brand new product – no market</li> <li>Shelf life</li> </ul>	<ul style="list-style-type: none"> <li>Lack of long term agreement</li> <li>No alternative management solution</li> </ul>	<ul style="list-style-type: none"> <li>Liquid composition discharge costs</li> <li>Impacted by blockages in sewage drain network</li> </ul>

GreenCape (2017). *The business case for biogas from solid waste in the Western Cape.*  
<https://www.greencape.co.za/content/biogas-business-case/>







# Digestate management future in SA

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- Classification – standardisation/best practices/framework
- Awareness/Understanding
  - Government – regulators
  - Market – Farmers (end user)
  - R&D – new beneficiation solutions
- SABIA – sub committee focusing on digestate

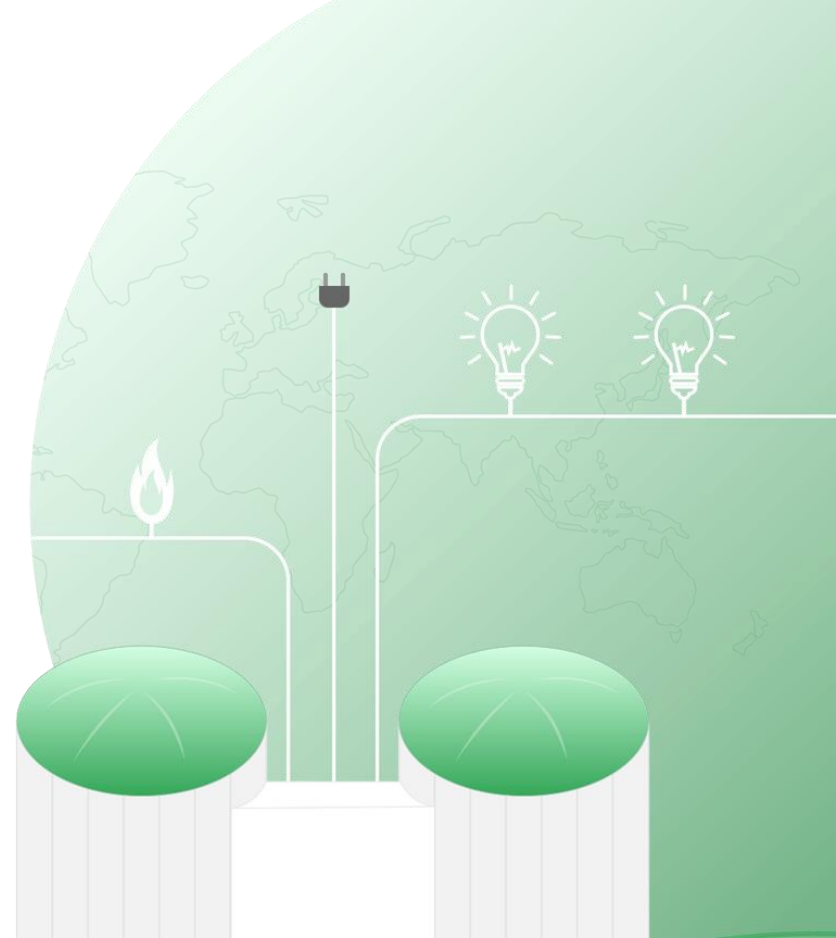
# If you are interested to join the DiBiCoo, please contact us or follow us online!

Thank You  
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