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International Network for Sustainable Energy



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## Carbon Credit For Household Biogas Plant Of INSEDA Members And Partners Under The Gold Standard

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**INFORSE-South ASIA**

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Proceedings: [www.inforse.org/europe/conf13\\_COP19.htm](http://www.inforse.org/europe/conf13_COP19.htm)

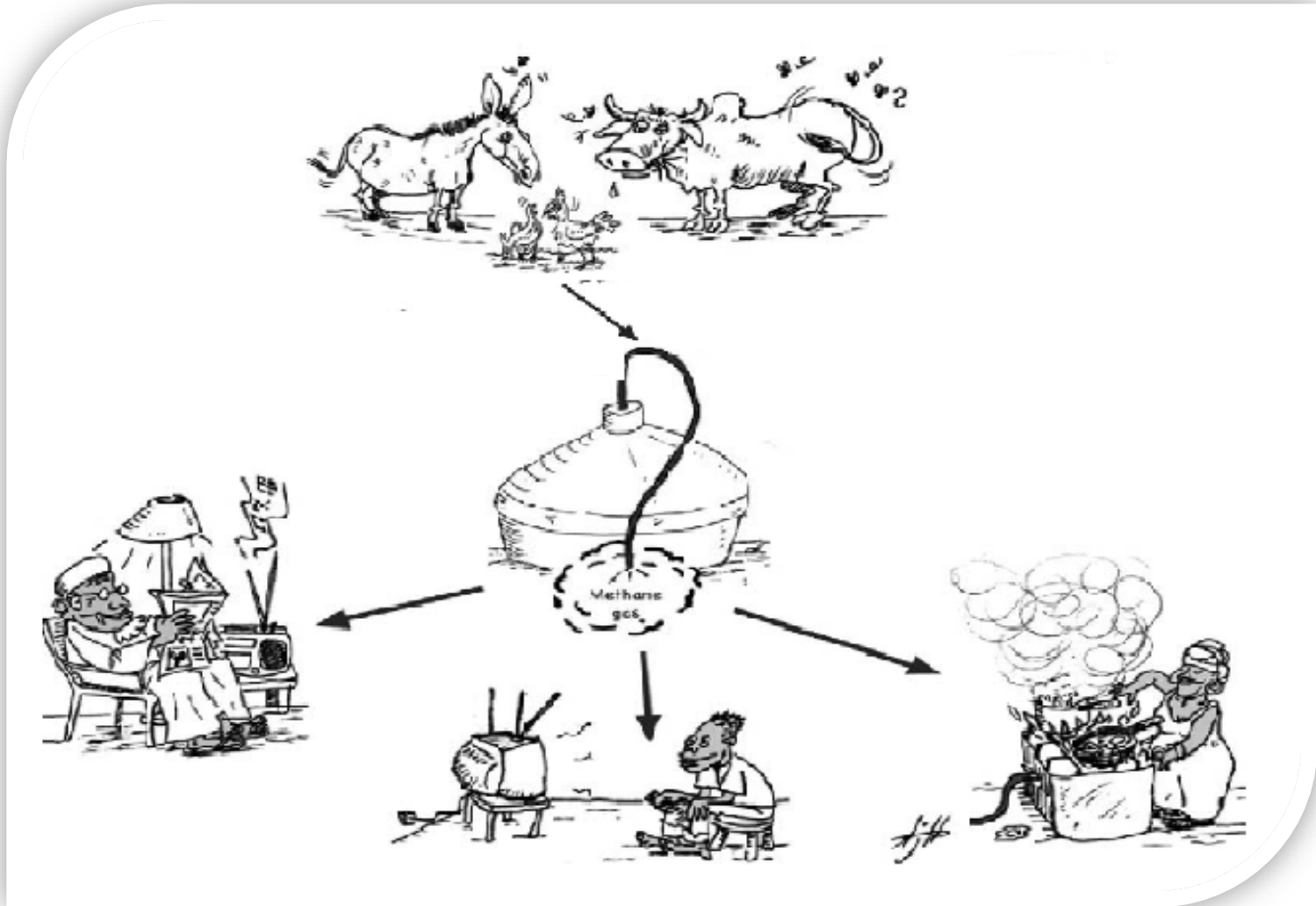
# Presentation

- Introduction
- Biogas: Alternate Energy at work
- Chronology of events
- Findings
- Conclusion

# Introduction

- The Integrated Sustainable Energy and Ecological Development Association (INSEDA) is the national organization formed by the Indian grass-roots NGOs in 1995.
- Involved in the promotion of renewable energy programmes with special focus on the implementation of biogas development in rural areas of India for over 15 years.
- Involved in the development of a small scale biogas project for getting carbon credit.
- Carbon credits and carbon markets are a component of national and international attempts to mitigate the growth in concentrations of greenhouse gases(GHGs).
- One carbon credit is equal to one metric tone of carbon dioxide
- There are two main markets for carbon credits; Compliance Market credits  
Secondary/ Verified Market credits (VERs)

# Biogas: Alternate Energy at Work



# Project

- Involves implementation of household biogas plant and switching from non-renewable biomass like firewood to renewable biogas generated from utilizing animal wastes and other organic wastes in the rural areas of Kerala and Madhya Pradesh.
- The project includes bundling of 4265 households in various districts of Kerala and Madhya Pradesh installed between June 2006 and December 2008.
- Each household participating in the project activity will feed animal dung and other organic wastes in the anaerobic bio-digesters. Biogas generated from anaerobic bio-digesters will be used for domestic cooking purposes
- INSEDA initiated the action for Carbon Credit in the beginning of 2004-05

# Sustainable Development



# Events

S.No	Event	Date
1	Board Resolution of AKKPS confirming consideration of carbon revenues for the project	26-Dec-05
2	Board Resolution of Gramudyog Mandal to confirm that Gramudyog in association with AKKPS will install biodigesters in Madhya Pradesh and will claim carbon revenues	27-Dec-05
3	Board Resolution of Sustainable Development Agency (SDA) confirming consideration of carbon revenues for installation of biodigesters in Kerala	2-Feb-06
4	Board Resolution	28-Sep-07
5	Discussion with consultant	1-Jan-08
6	Verified Emission reductions Purchase Agreement (VERPA) discussion with buyer	22-Feb-08
7	VERPA signing	1-May-08
8	Submission of PDD and passport to GS for pre feasibility assessment	16-Feb-09
9	Feedback from GS on pre feasibility assessment	8-Sep-09
10	Stakeholder meeting in Madhya Pradesh	12-Oct-09
11	Stakeholder meeting in Kerala	14-Oct-09
12	DoE Appointment	10-Mar-10
13	Successful completion of the validation process and report was sent to Gold Standard Foundation (GSF)	June,2011
14	After review of validation report, some queries were raised by the GSF in the middle of August which were satisfactorily answered	August,2011
15	Project registered	15-Sep-11

# Findings

- Time consuming
- Resource guzzling for the stakeholders, like the project developers, the members, partners and the end users.





# Conclusion

- Carbon Credit projects can be a very relevant for the socio-economic benefit of the rural people in India and South Asia and other developing countries
- Gold Standard and other registering bodies of the carbon credit projects, use the mechanism which are not only too cumbersome, but also time consuming, as it takes as much as 3-5 years.
- Process should be revamped

# Thank You

For queries please contact

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