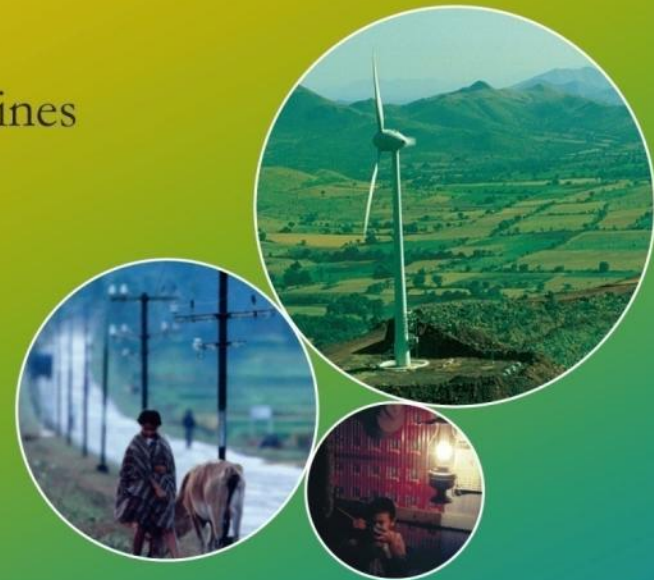


Third Workshop on Enhancing the Regional Distribution of CDM Projects in Asia and the Pacific

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CDM in Waste Sector: Issues and challenges

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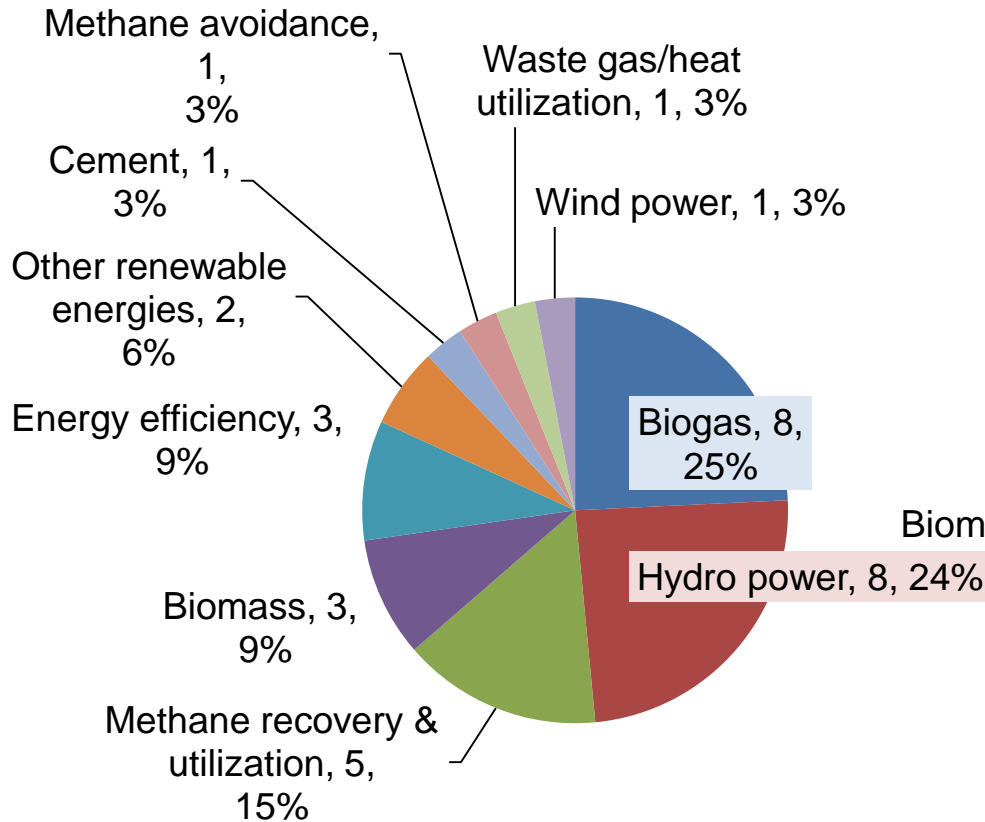


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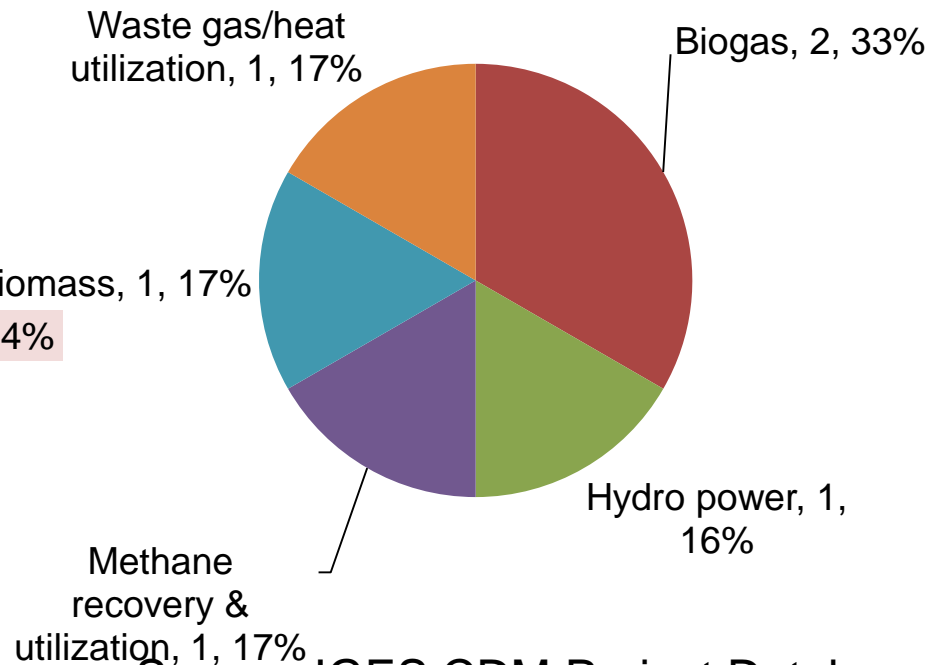
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Most CDM in LDS are waste sector

of registered projects from LDCs



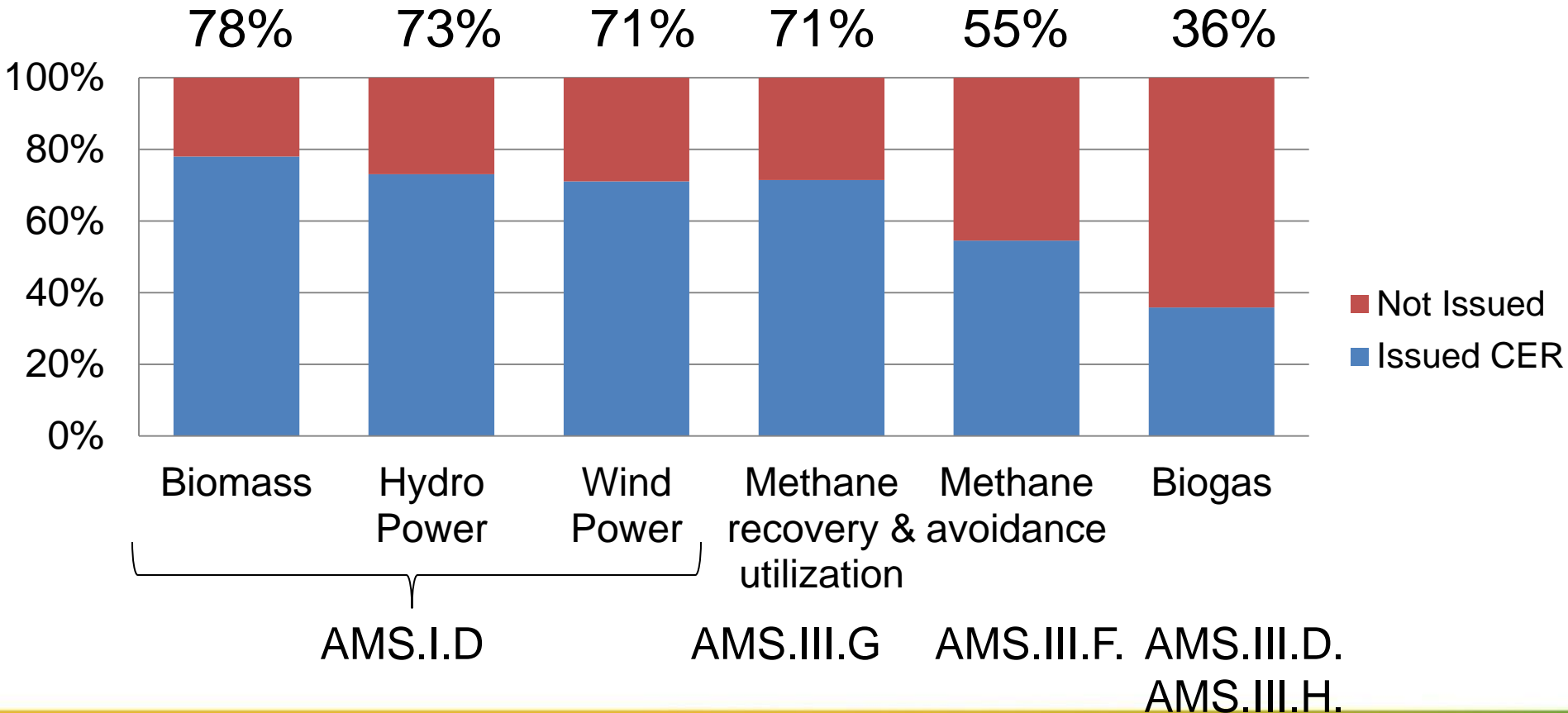
of projects issued CERs from LDCs



Source: IGES CDM Project Database

Monitoring has not been successful in waste sector

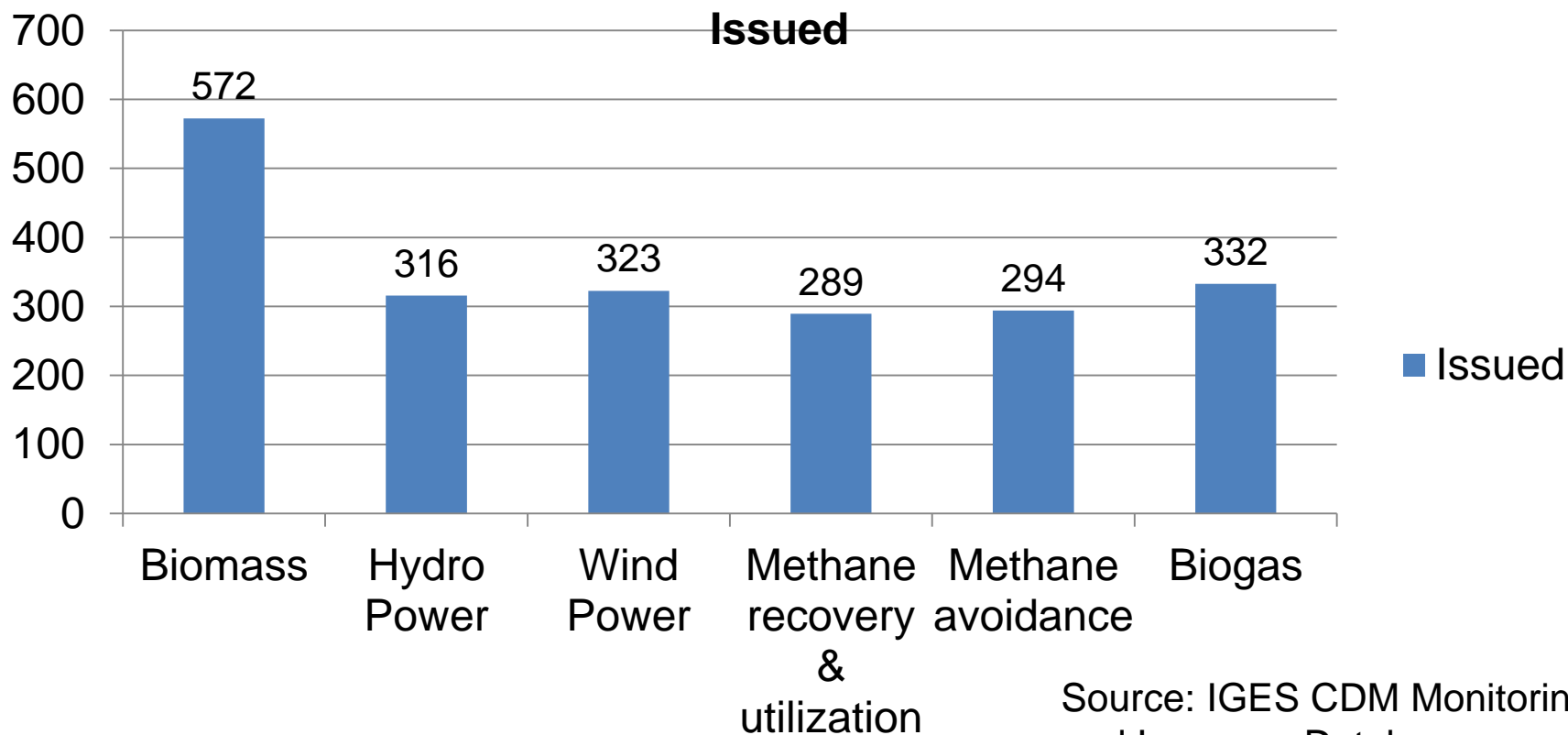
Issued ratio of monitoring report



Source: IGES CDM Monitoring and Issuance Database of CDM Projects in Asia and the Pacific
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There is no difference in monitoring period; time is not a matter

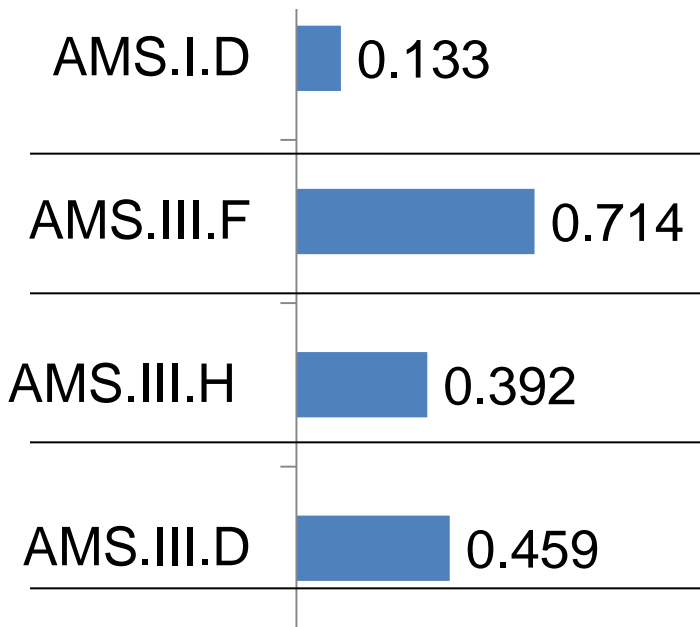
Average days of monitoring period



Source: IGES CDM Monitoring and Issuance Database

More reviews in monitoring report

Average number of review comments per monitoring report



Typical contents of review comment

Calibration of **meter**, Explanation of measured **data**

Measurement on **waste**, identification of **baseline**

Biogas analysis, Measurement on **COD**, quantity of **wastewater**, **electricity**

Biogas analysis, Survey on **swine**, **Electricity** consumption

Common issues: Monitoring plan
(data explanation, operation of meters)

Source: IGES CDM Review and Rejected Project Data Analysis

Waste projects have more process for monitoring

Methodology	Monitored by meter	Monitored by survey	
AMS-I.D. (RE)	<ul style="list-style-type: none"> • CO2 emission factor • Quantity of net electricity supplied 	-	
AMS-III.G. (Methane recovery)	<ul style="list-style-type: none"> • Landfill gas (LG) volume and content • Temperature and pressure of the LG 	-	
AMS-III.F. (Composting)	-	<ul style="list-style-type: none"> •Quantity of waste composted •Waste delivered to the facility •Weight fraction of the waste delivered to the composting 	
AMS-III.D. AMS-III.H. (Biogas)	<ul style="list-style-type: none"> • Biogas (BG) volume and content •Temperature and pressure of the BG •Flare efficiency 	<ul style="list-style-type: none"> • Manure • Number of animal and days 	<ul style="list-style-type: none"> • Volume of Waste water • COD

Framework of the issues in waste sector

- ◆ More process for monitoring (direct and survey) hinders the CERs issuance rate
- ◆ Project implementers are not familiar with monitoring parameters required by the CDM
- ◆ They find it difficult to ensure the quality of data

Proposals

- ◆ Need to reduce the monitoring burden by providing the datasets or default values from regulatory side
- ◆ Develop specific guidelines and manuals for monitoring and data quality