

Sezibwa meter replacement log

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One entry per customer meter swap at Sezibwa (gateway gw-pi2). Record every system that points at a meter serial, because each one must be switched separately: the OpenEMS gateway config, the customer app (`meter_sources`) and the billing engine (MBE device + household link). Customers are identified here by Modbus address and serial only.

Summary

Date	Modbus address	Old serial	New serial	Status
2026-09-14	7	210302003356	200326020197	All systems switched 2026-09-24; closing 244.54 kWh, opening 0.31 kWh

2026-09-14: address 7, 210302003356 to 200326020197

Why it was replaced. The old meter stopped answering on the meters bus on 2026-08-29 at 23:07 UTC (logger issue #82). It was later found physically absent. Its last register value seen on the backend was 229.35 kWh on 2026-09-04.

New meter. CHINT DDSU666 serial 200326020197, on Modbus address 7. The first backend data is from 2026-09-14; the register read 16.16 kWh on 2026-09-24.

Systems switched:

System	Change	Date	Reference
OpenEMS gateway (gw-pi2)	New meter component <code>meter200326020197</code> on unit 7	2026-09-14	microgrid-gateway PR #68

System	Change	Date	Reference
Customer app	<code>meter_sources</code> row repointed to <code>meter200326020197/ActiveConsumptionEnergy</code> , history start 2026-09-14; daily usage backfilled 14 to 24 Sep with the production backfill script (11 days, sums match the register)	2026-09-24	this page
Billing engine (MBE)	New device "(new meter)" added on edge sezibwa-rentals-gw-pi2 as a Consumption meter	2026-09-24	this page
Billing engine (MBE)	Household billing device changed to the new device (Change billing device); old device now unlinked; invoice meter serial field set to 200326020197 by hand	2026-09-24	MBE UI gap reported: serial does not follow a device change

Closing and opening readings (from the swap thread, Element product room, 2026-09-14). Old meter 210302003356 read **244.54 kWh** just before removal. New meter 200326020197 read **0.31 kWh** at installation (about 12:15 EAT), on Modbus address 19. The old meter's register kept counting while it was off the bus, so there is no unmetered gap: its closing reading covers 30 Aug to 14 Sep.

September bill. The billing engine takes one meter per household per period, so bill this customer with one manual reading (`manualReadings` in the generate call) that joins the two meters:

	Start	End	kWh
Old meter	223.52 (August end, when it went silent)	244.54	21.02
New meter	0.31	reading at September close	end minus 0.31
Manual reading to enter	223.52	244.54 + (new end - 0.31)	sum of both

Check first that the August bill really ended this customer at 223.52 kWh.

Watch. A stray 0.35 kWh value appears on 2026-09-14 under the old channel name. That was the new meter answering on address 7 before its component was renamed, not the old meter.

Revision #3

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