

SME's and monitoring

Ronald Kalwij
Environmental officer Royal Cosun

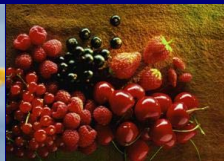
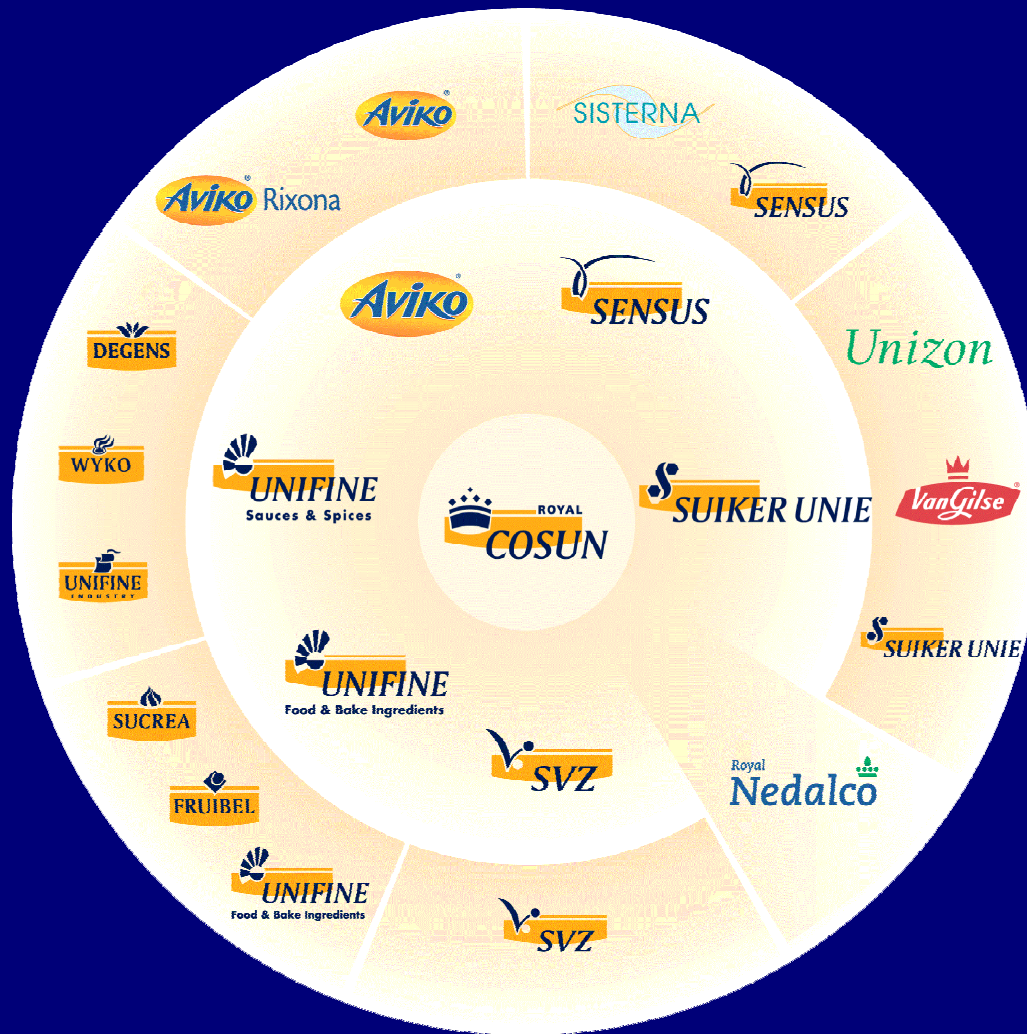


Definitions

- Mini installations 0 – 25 kton CO₂
- Small installations 25 – 50 kton CO₂
- Medium installations 50 – 500 kton CO₂
- Large installations > 500 kton CO₂

- SME's have mini and small installations





The Cosun installations

Compagny	Town	kTon CO2 / year	first // second period
Suiker Unie	Breda	192	+ // +
Suiker Unie	Dinteloord	318	+ // +
Suiker Unie	Groningen	267	+ // +
Suiker Unie	Puttershoek	217	+ // +
Suiker Unie	Vierverlaten	320	+ // +
Sensus	Roosendaal	68	+ // +
Sensus	Zwolle	8	- // - (<3 MW)
Aviko	Steenderen	235	+ // +
Aviko	Lomm	18	- // +
Rixona	Warfum	23	- // - (definition)
Rixona	Venray	77	(+) // +



2005-2007



- Monitoring is expensive. This is confirmed by a governmental study (Actal IV and Actal V)
- Big companies (ca. 10) dominate the discussion
- Through the opt-out 25 kton monitoring problems were small
- For 2008-2012 Calimero group formed



Calimero group



- Initiative of SME's
- Examples: Hospitals, food industry, peppermills , grass dryer etc
- Internal discussion led to a balanced proposal
- SME is a category now and have a reputation
- Importance based on number (199) of sites, not on the emission of CO₂



Results



Cost of monitoring						
	First period			Second period		
Size	Installation	Mton/Y	€/ ton CO ₂	Installation	Mton/Y	€/Ton CO ₂
mini	30	0,45	0,57	145	1,8	0,34
small	51	1,9	0,22	54	1,9	0,11
medium	96	13,0	0,13	77	12,0	0,11
large	18	73,3	0,03	28	64,4	0,03



Feasible Improvements

- The corporate controllers verify the fuel bills and certify it. Review by the government.
- No costs on bio fuel if monitoring does not pay
- If monitoring applicable to one installation, it must be allowed to bring the whole site in
- No monitoring on spare boilers



Conclusion

- New monitoring system reduced the cost for SME's with 40%
- Cost per ton CO₂ are still 17 times higher then for large installations
- Improvements are possible
 - The corporate controller verifies
 - No monitoring on bio fuel or credits
 - No discrimination on site; one meter monitors
 - Spare boilers not encompassed

