ASIA CLEAN ENERGY FORUM 2018

HARNESSING INNOVATION TO POWER THE FUTURE

Manila, Philippines • 4-8 June 2018



INCREASING ENERGY ACCESS Innovative Solutions for Clean Cooking and Heating

"It's simply good value for money"



Carlo Figà Talamanca CEO









SGFE produces char-briquettes from recycled biomass waste.





We don't try to sell what we can produce... we try to produce what we can sell!





1. Quality: the char-briquette must be comparable or of better quality than traditional charcoal

2. Production process: the design, set-up and operation of a production process should ensure consistent quality of the final product and enable production at competitive costs

3. Distribution and sales: the setup of an efficient and reliable distribution system is a critical component for sales





Chemical and physical properties depend from:

- raw materials
- charring technology
- binder
- mixing process
- particle size
- compression technology
- drying process
- etc.





No.	Sample	мс	VM	AC	FC
		[%]	[%]	[%]	[%]
1	SGFE charcoal (Coconut shell)	1.96	6.52	2.40	91.08
2	Gasifier charcoal (wood)	13.91	6.80	5.97	87.23
3	Coconut shell charcoal	5.31	22.44	2.30	75.26
4	Traditional charcoal (wood)	5.77	31.37	4.29	64.34

MC: Moisture Content

VM: Volatile Matter

AC: Ash Content

FC: Fixed Carbon

EXAMPLE: SGFE's char-briquettes compared to other "commercial" char-briquettes



5.1 Fuel test results

Table 1: Physical properties and heating value / calorific value of the fuels

Fuel Id	%Moisture	%Volatile	% Analytical	%Fixed	Heating Value
rueriu	content	matter	ash	carbon	(KJ/KJ)
	8.6	19.6	32.8	39.0	19423
	7.6	20.8	31.8	39.8	19479
وتحصينا	7.3	20.9	22.4	48.7	18709
	7.7	19.8	23.4	49.1	25105
	7.0	18.2	34.4	40.4	20714
	7.8	21.0	25.1	46.1	24007
	8.5	21.7	19.4	50.3	23980
SGFE	11.5	12.5	3.2	74.1	28757
Traditional charcoal	7.8	20.7	5.7	65.7	29405
	8.0	20.9	22.4	48.7	19845

2. SGFE's FACTORY AND PRODUCTION









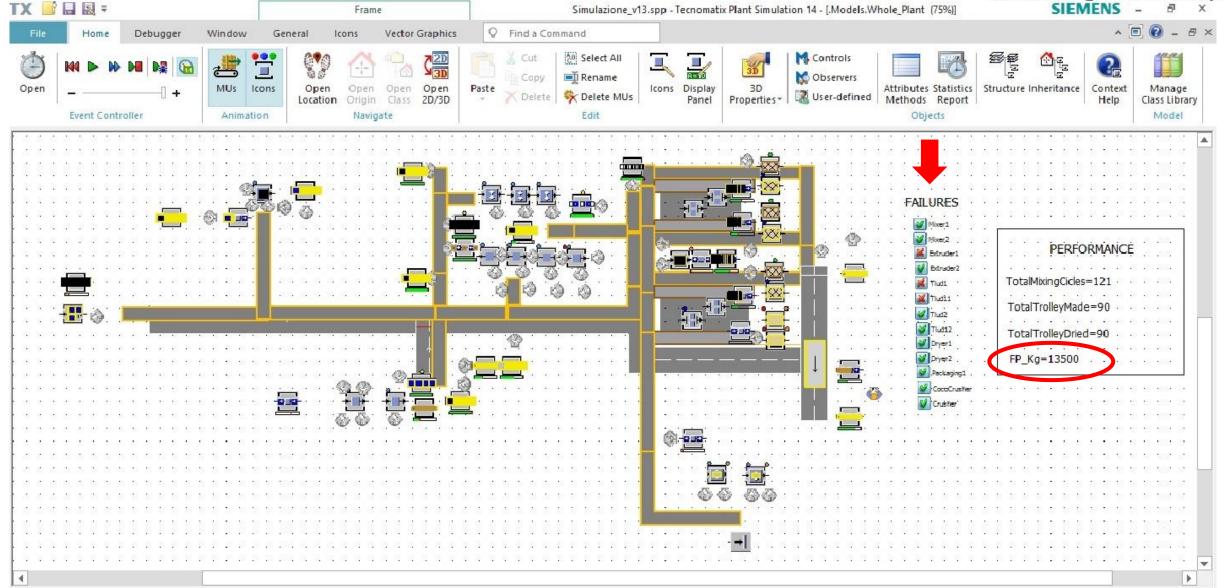
SIMULATION VIDEO (45 sec.)



sustainable green fuel enterprise SIEMENS - 8 Simulazione v13.spp - Tecnomatix Plant Simulation 14 - [Models.Whole Plant [75%] Frame O Find a Command M Observers User-defined Class Library Event Controller Animation Model Navigate View Tools Help mar, 2017/01/03 09:49:29.7223 Real-time x 5 Apply

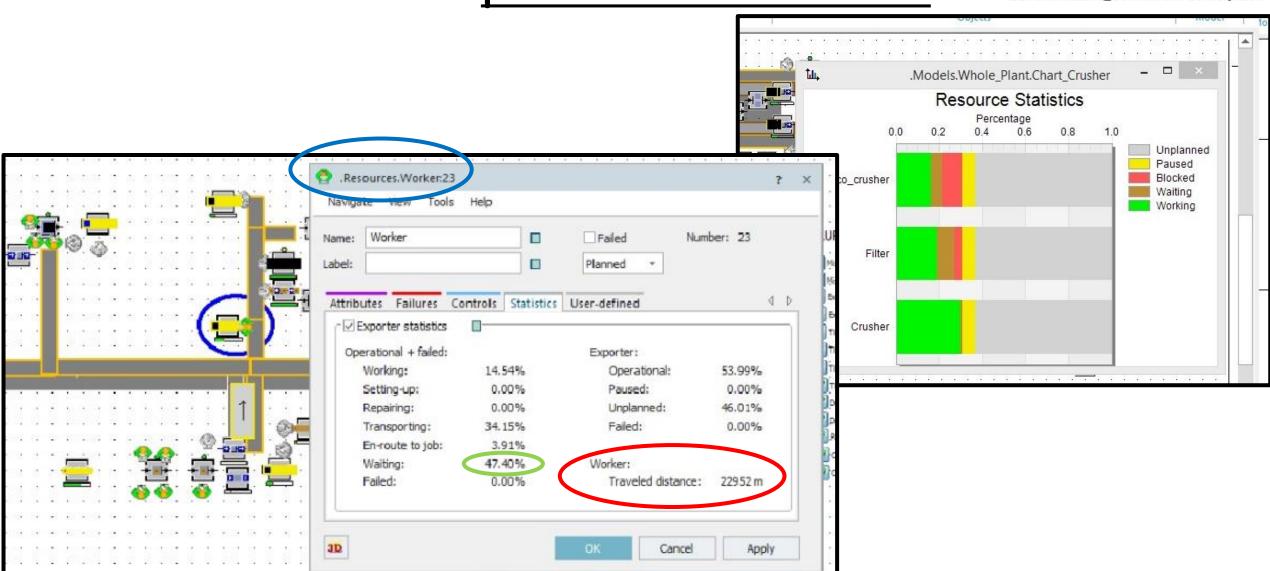
EXAMPLE: simulation of production with broken machines





EXAMPLE: simulation of workload of machines and of production workers





3. SGFE's SALES AND DISTRIBUTION





SOME OF OUR DIRECT END-USERS





MOST OF OUR DIRECT END-USERS



sustainable green fuel enterprise



SOME OF OUR RETAILERS



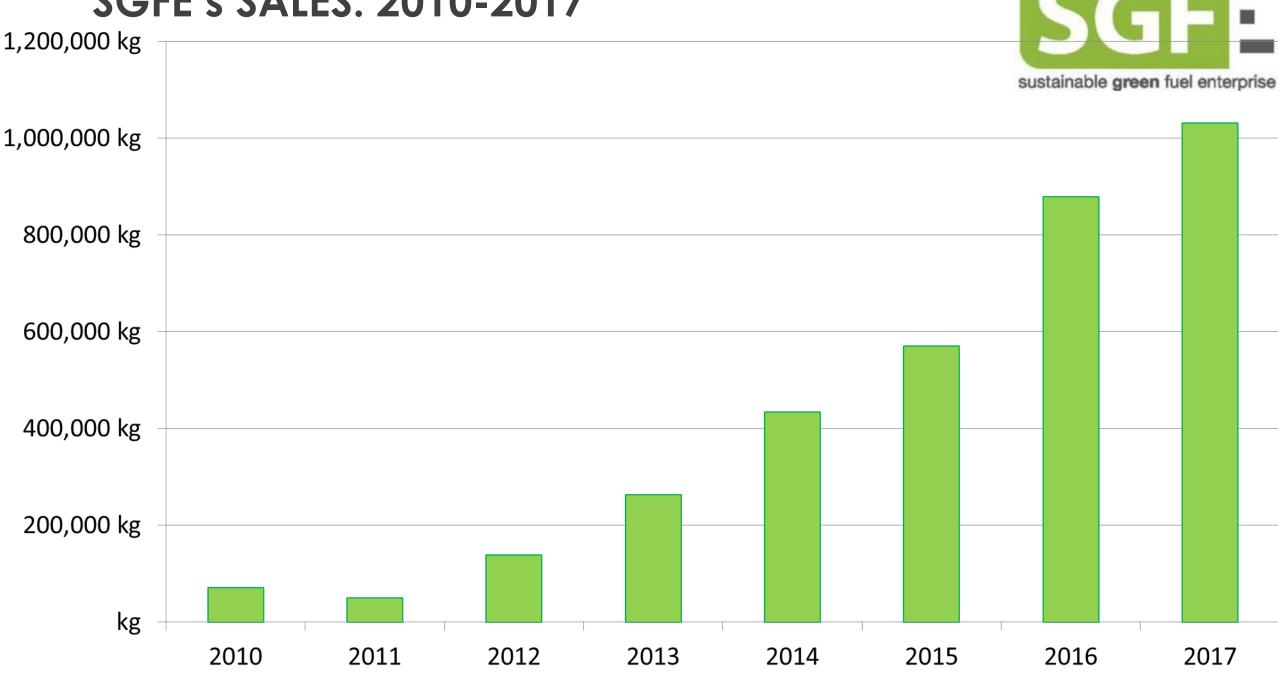


MOST OF OUR RETAILERS





SGFE's SALES: 2010-2017



Thank you for your attention!

Carlo Figà Talamanca – CEO

M: +855 (0)97 8159256

E: <u>carlo@sgfe-cambodia.com</u>

SGFE office & factory:

Phlove Lom, Phoum Russey, Sangkat Stueng Meanchey, Khan Meanchey, Phnom Penh, CAMBODIA

T: +855 (0)23 5121888

W: <u>www.sgfe-cambodia.com</u>







