

- ECOMONDO Rimini 05/10/2019
- REEF 2W Tool and its possible applications
- 2

WHAT IS THE REEF 2W TOOL?







HOW THE TOOL WORKS



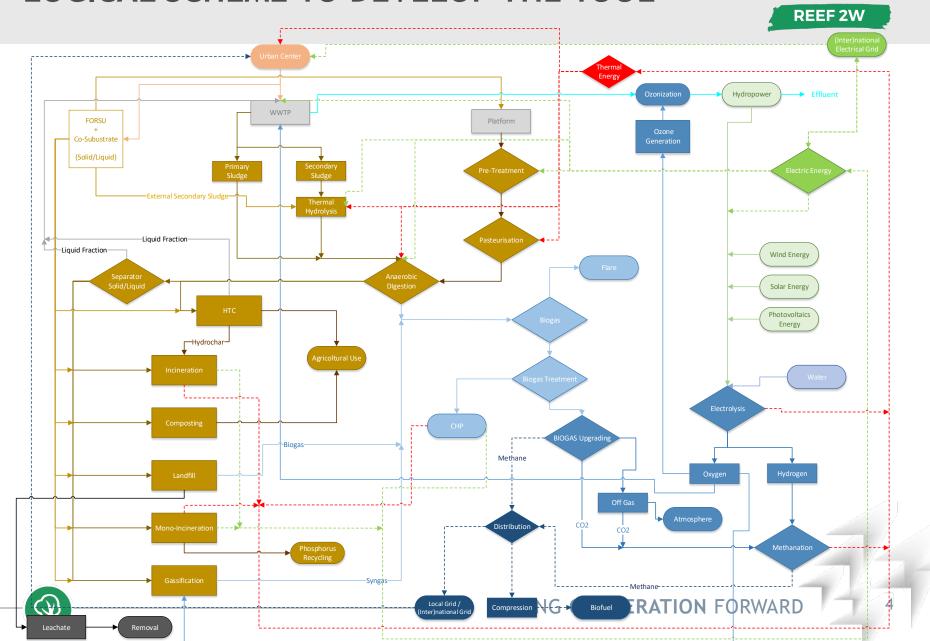
- It was developed in one of the most common electronic sheet using a VBA language.
- It is not necessary to have an internet access (during the use)
- All the information provided by the user and received remain in the computer of the user.
- At the moment developed in English, but already implemented to dialog in German, Croatian, Czech, Italian, possible add any other language
- It works providing an assessment of the status quo situation and one or more possible future scenarios





LOGICAL SCHEME TO DEVELOP THE TOOL





INTRODUCTIVE PAGE



Tool progress status:







Information about WWTP and Plant type



Energetic Assessment





Spatial Assessment



Environmental Assessment



Economic Assessment

Reset





























INTRODUCTIVE PAGE



Plant type	Wastewater Treatment Plant				
	C Solid waste Treatment				
Name of User					
Date	2019/11/03 (yyyy/mm/dd)				
Country	•				
Treatment capacity	PE (*)				
Connected population	PE (*)				
Wastewater flow (**)	m3/d				
COD inflow concentration (***)	mg/l				
TN in influent (****)	kgTN/m3				
(*) PE Equivalent Population (**) Daily average	_				
(***) COD Chemical Oxygen Demand (****) TN Total Nitrogen	Ok Cancel ?				



RATION FORWARD

6



			×
	Tons (t a.r. /year)	Total Solid (%)	Volatile Matter (%)
~	21401	7,5	67,58
V	21547	7,5	67,58
		30	90
		(t a.r. /year) 21401 21547	(t a.r. /year) (%) 21401 7,5 21547 7,5

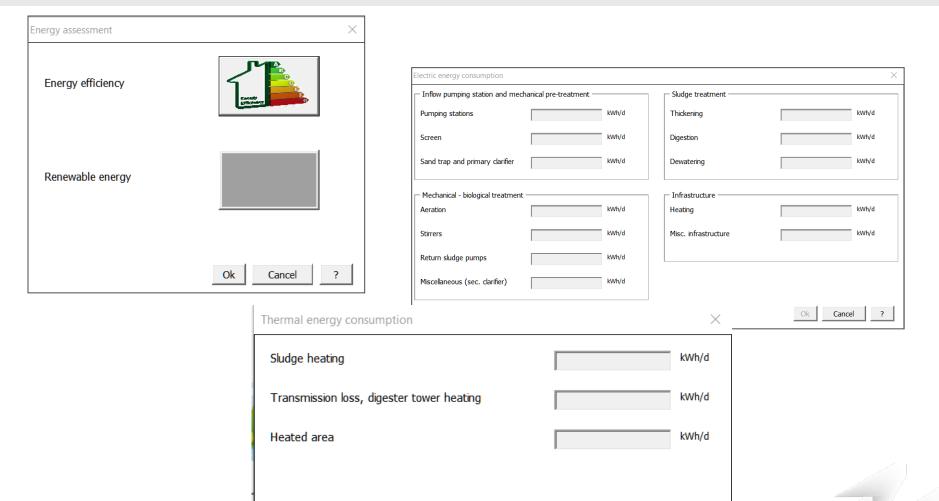


Ok C

?

VARD 7

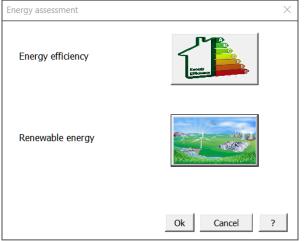


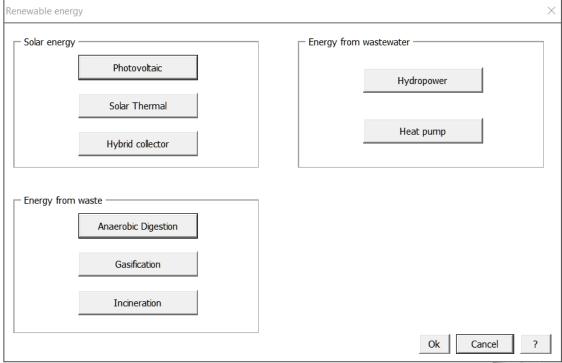




Cancel

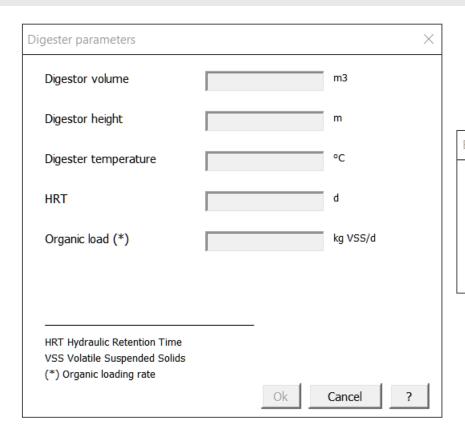


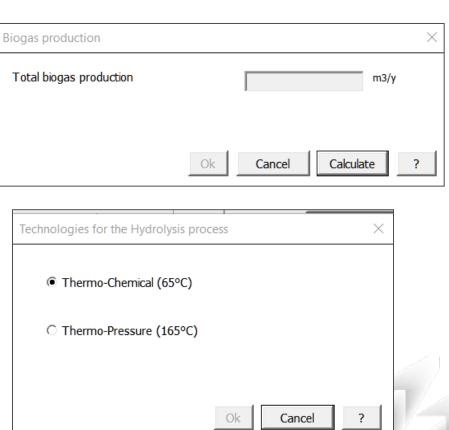






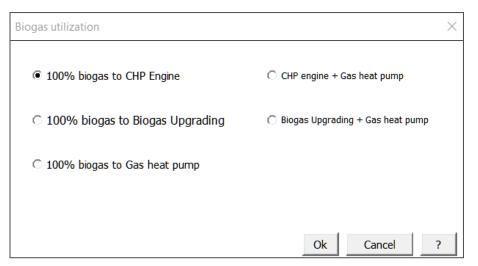




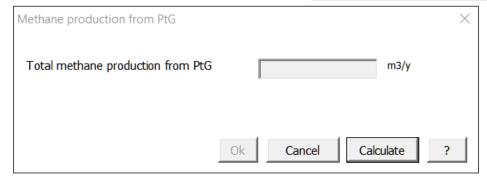








Upgrading technology		×
○ PSA - Pressure Swing Adsorpt	ion	Info
PWA - Pressure Water Adsorp	ption	Info
○ Membrane		Info
C Cryogenic		Info
	Ok Cance	el ?





INTEGRATED SUSTAINABILITY ASSESSMENT (ISA)



Spatial assessment



Spatial Assessment

- Evaluate the existing energetic requirements of the considered urban area for the different urbanized areas considered (centre, peri-urban, industrial, rural)
- Evaluate the potential development that the urban area will have
- Suggest possible energetic interaction between the treatment platform and the urban area

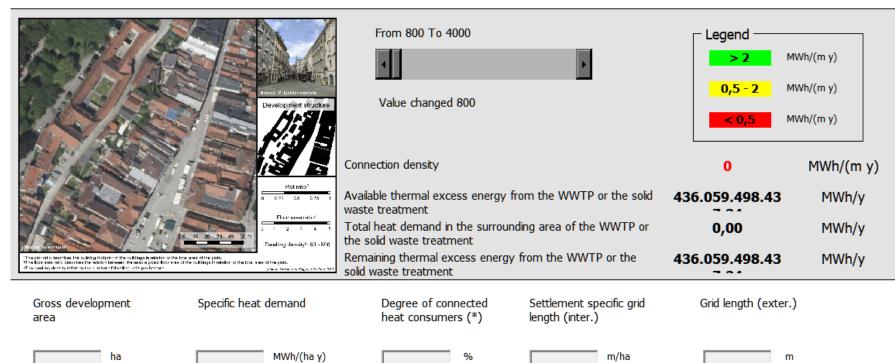


SPATIAL ASSESSMENT





Medium sized town centre X



INTEGRATED SUSTAINABILITY ASSESSMENT (ISA)



Environmental assessment



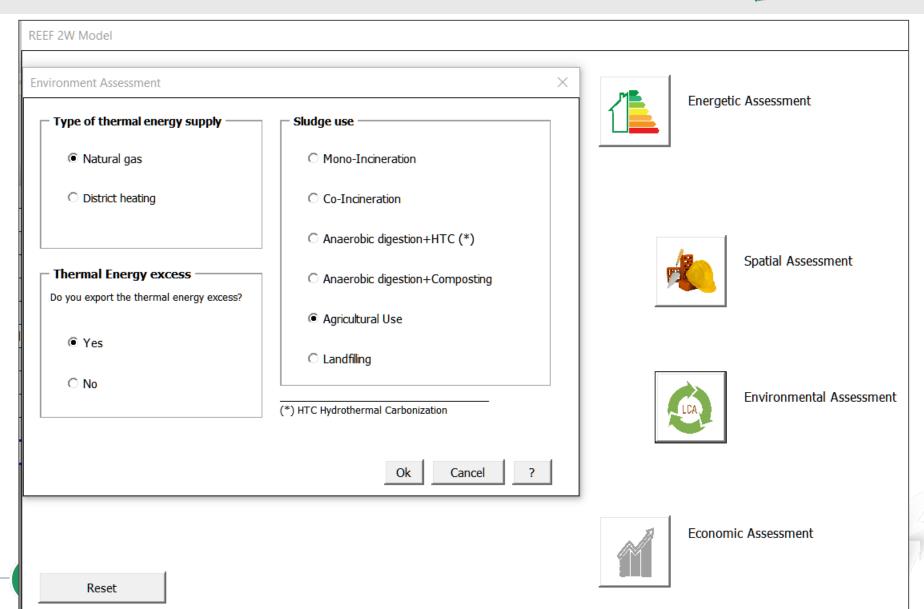
Environment Assessment

- Environmental evaluation is based on the reduction of carbon dioxide emissions
- Existing and future situation are considered and compared. The effect on the greenhouse gases emission are analysed and reported.



SPATIAL ASSESSMENT





INTEGRATED SUSTAINABILITY ASSESSMENT (ISA)



Economic assessment



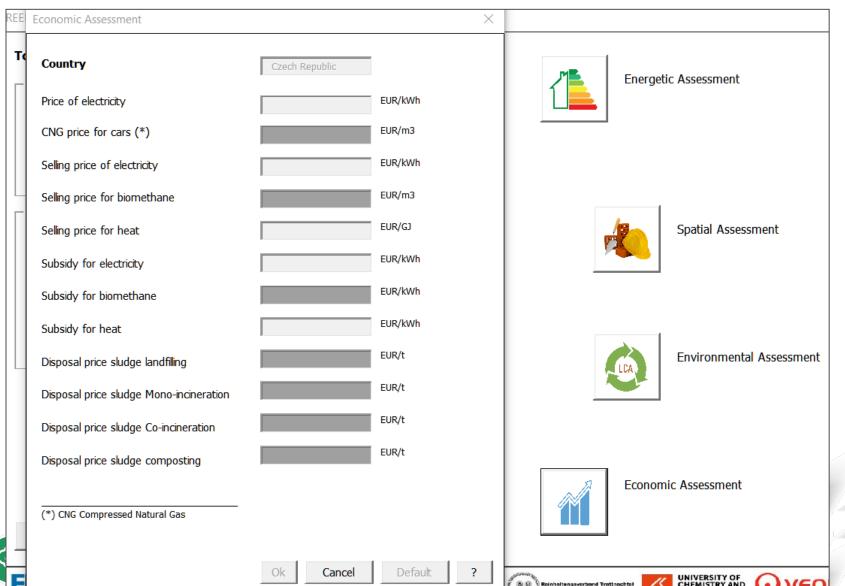
Economic Assessment

- Operational cost have been considered for the evaluation of the economic advantage that the recovery of energy from wastes can determine, considering also incomes from new wastes disposal, and subsidies for the production or energies
- Investment costs are considered to provide a rough idea about.



ECONOMIC ASSESSMENT

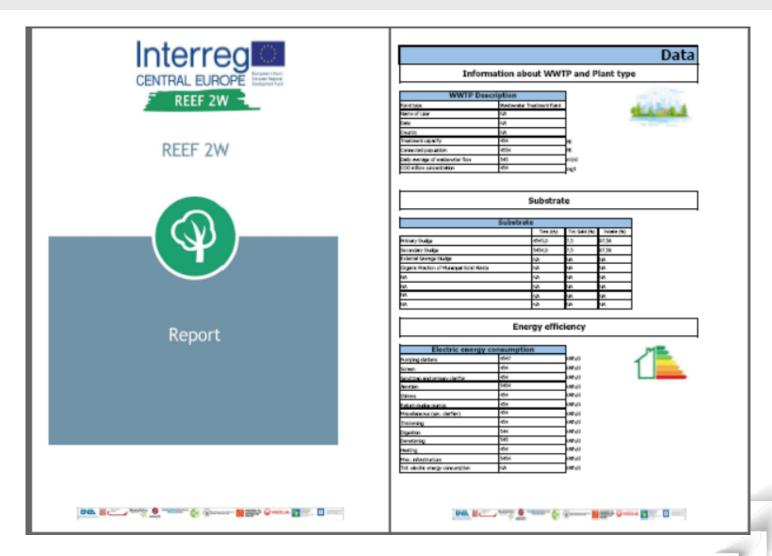




adelphi

REPORT



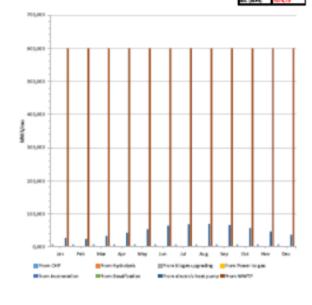


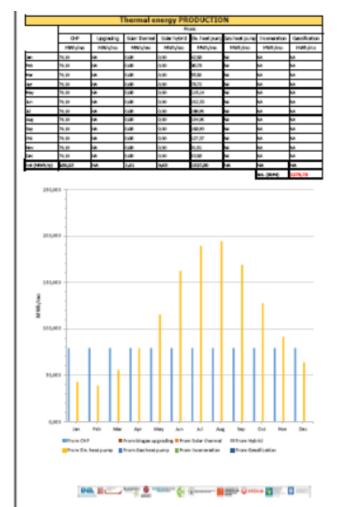


REPORT



		E	lectric en	ergy CON	SUMPTIO)N			
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Contact details





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