





"HAVING EXTRA TIME TO MAKE THE HARD DECISIONS IS INVALUABLE."

- Senior Process Engineer, Large U.S. EPC Firm

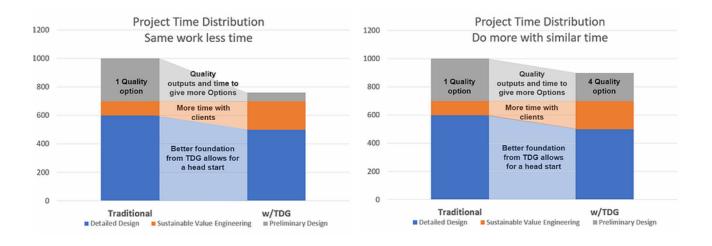
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PROJECT TIME DISTRIBUTION

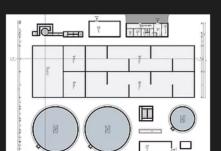


LOOK AT SOME OF THE SAMPLE OUTPUTS BELOW

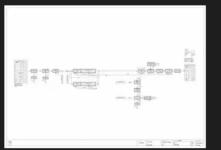
5/6/2021 nimbus screenshot app print



CIVIL DESIGN



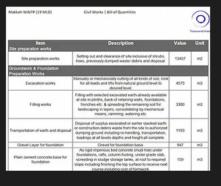
PROCESS FLOW DIAGRAM



EQUIPMENT LIST

Credy Distance Bridge	CD-242	Cerfer Der 112 m	Above: Not Deep Calvanized Carlon Steel		
			Subsurface: 8579 304		
Secondary clarifier bridge (Circular)	01.019	Clarifor (ke: 50 m Operational Geneti: 3.5 m	Above: Not (was Galvanional Carbon Wast)		
			Subsurface: ASTM 304		
			Show the Comp Salvanieral		
Secondary durifier bridge (Circular)	CR-254	Confer (se 5) m	Carbon Steel		
		Operational David: 3.3 m	Subsurface: 8279 304		
	60.004		Along States (SET V 104		
Grit Removal Bridge	C8-534		Above transmitted (sep Subvenied Carbon Steel		
and the	PR-148		CREATING CROSS SING	-	
(in-file		Casachy UK with			
(hadder	FD-209	Tex Outliet; mg/L-			9
Dodfor	#0-213	Capacity: 936-e-176		-	
		Tex Outlett, might:			
As distribution and As distribution and	Pr 113	Figur 192 m/A			
	Fe-11.3	Page 752 445h	Rentrace ACTA NA		
Coarse Bubble Diffuser Studge Storage Fank	60 944		Poer at Per his		
Course builtie diffuser (experimentes (ent.)	66-212	-	From ACTV 204	-	-
Course building 6/fuser (aqualisation forb)	60.210		Page and Per hing		
Coate bubble (Muser (equalization tark)	66-236		Fige: 457W 304		
Coarse buildin diffuser (equalization fact)	60.217		From #179/304		-
Atlant Task West	WS-234	Series 1,688 m2			-
Arone Tark How	m9-23e	Terry Last mr			
Band Disal	my dah	Teller 5.5 m²		-	
Pacculation more (Stage 2)	Wy-241	Tarket 40 m²			
Envelopion Yark Burns	80.007	Capacity: 752 m/sh	Peuang GCI		
STATE OF THE PARTY	10,000	Peacl 6-m	Impeter; GCI		
Equalization Tark Rump	85,000	Capacity: 752 mil/h	Pouring GCI		- 1
		Peak 6 m	Impeter: GCI		
Ar Jel Pyrop DistRer Selbsech gump	PC 108	County 13.75 anh	Penang GCI		
			Proeter, GCI		
		Capacity 13.75 min.	Impeler: GCI		
Draditor tecknish pump	PO 509	Canacity 23.75 m/sh	Please (42)		1
		Peat 1-m	Impeter: 003		
WAS Pump	RC-2000	Caracity (1.7) with	Pleasing GCI		- 1
		read 5 m	Inselect 90		
WAS Now	P0-2015	Capacity: 11,73 m/sh	Powers (K1	- 1	
		Peal 1.0	Ingeler, GCI		

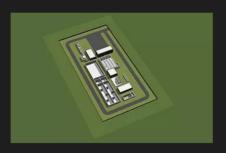
CIVIL BoQ



CONCEPT DESIGN



3D VIEW



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THE 'MAGIC' - HOW TDG WORKS





SIGN UP NOW!

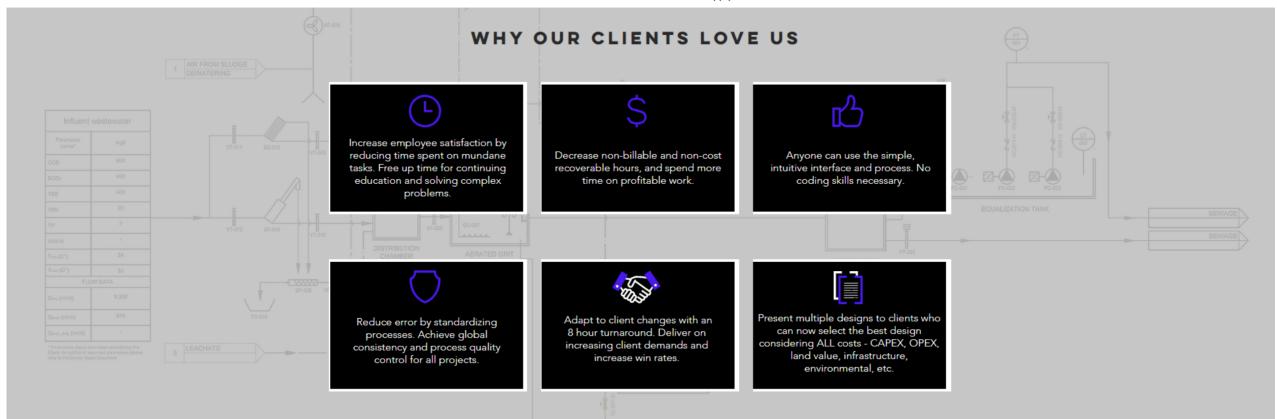
3RD PARTY SURVEY RESULTS OFFER FEEDBACK FROM WATER ENGINEERS



Source: Lux Research

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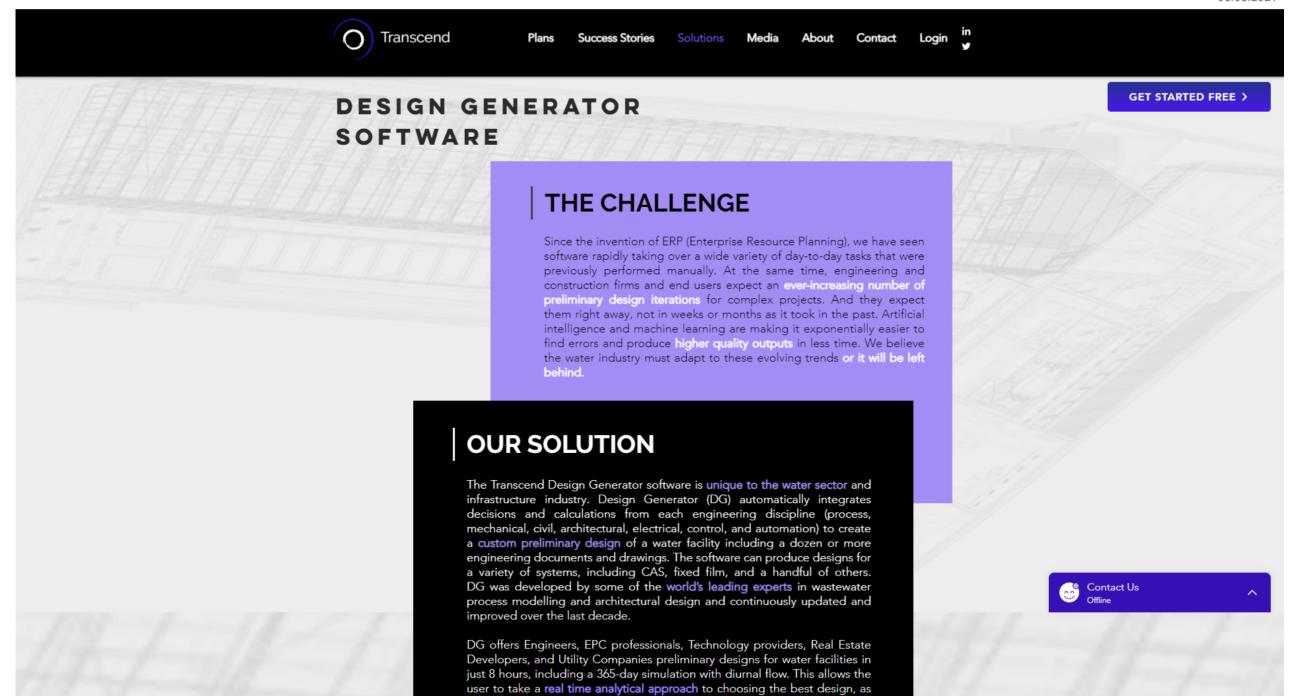




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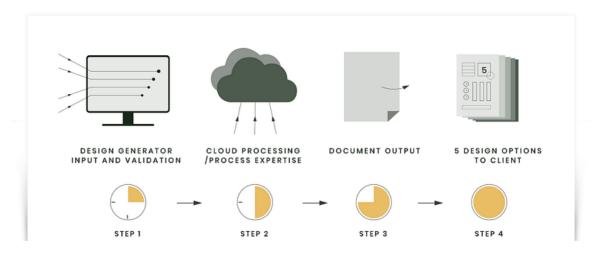
opposed to the traditional wait time of two weeks or more for each iteration. With a **user-friendly interface** and easy access website, clients have the ability to run and review unlimited scenarios with an 8-hour turnaround time and select the most suitable design for their requirements.

By giving the end user more options, it allows them to select the best solution at the beginning of the process, without having to burn thousands of engineering hours on creating iterations to find the best design. It also enables clients to bring new technologies and approaches to the market faster. In comparing them to conventional methods, we're giving the user the cost/benefit analysis of more sustainable and environmentally friendly approaches. The outputs are in native form used as the foundation for detailed design, reducing the man-hours and time requirement for the project cycle, and offering global consistency and quality control in all design documents.

DESIGN GENERATOR PLATFORM

Design Generator ("DG") is a web-based, online water facility design engineering platform that enables engineering professionals to rapidly generate preliminary engineering designs for CAS facilities as well as MBR, MBBR, and others.

The tool has been developed by leading industry professionals and software development experts to create an <u>easy-to-use</u>, sophisticated wastewater engineering application.



(approx 1 hour) (approx 3 hour) (approx 4 hour) (approx 8 hour)

During the design generation process, DG starts by leveraging proprietary databases and validation algorithms to check the input data for quality and consistency (garbage in – garbage out). Once the data is validated, it leverages hundreds of thousands of decision-trees developed by leading wastewater engineers, as well as a 365 day simulation in top of the line wastewater simulation software. This expertise helps to select the proper process unit and choose each piece of equipment for the facility. From there, DG constructs a 3D Building Information Model (BIM) which can be used for final detailed engineering. The final output is a wide spectrum of engineering documents including:

Process

- Process Flow Diagram
- Technical Description
- Design Basis Document

Mechanical/Electrical

- P&ID w/ piping, valves and instrumentation
- Mechanical Equipment BOQ
- Instrumentation BOQ
- OPEX Calculation
- Electrical Load List

Civil/Architecture

- Site Plan Drawing
- Floor-plan Drawings
- Sections Drawings
- Room Schedules
- Civil BOO

ADVANTAGES

INCREASE SPEED

In today's world speed matters more than ever. Clients demand immediate results, and companies can produce them much faster than we imagined 1-2 years ago. The Transcend DG allows users to produce high quality preliminary engineering documents in hours instead of days or even weeks. In fact, some clients have told us the outputs they get from the Transcend DG normally take them 2,000+ hours to produce!

SAVE MONEY

The Transcend DG saves clients' money by cutting down on engineering hours spent on preliminary design, including the ability to quickly adapt to changing client requirements or requests for iteration. The saved hours can then be allocated to more value-added tasks just as billable work or developing new and innovative approaches to end user needs.

IMPROVED DECISION MAKING

Engineers prefer to spend time doing what they love - making challenging, difficult engineering decisions and analyzing various design options. The DG enables engineers to leave the boring, mundane tasks to the software... freeing them up to do value-added, complex work.

STANDARDIZED QUALITY OUTPUTS

Because the designs are produced by software, the decisions and document outputs all leverage the SAME standards, enabling global consistency and strong process quality control in all final documentation. This eliminates much of the variation and quality flaws that usually find their way into construction level drawings and create problems during the build phase. DG outputs in their native form can also be used as the foundation for detailed designs, creating a standardized "starting point" for engineering firms and their clients.

CONSTANT UPDATES

The Transcend DG was developed by some of the world's leading experts in wastewater process modeling and architectural design, and has been continuously updated and improved over the last 10 years. As new innovations become mainstream, we can quickly add them to the tool, thus giving users across the world access to these new approaches. As the quality and uptime of the system is ensured by Amazon Web Services, we can also be sure that any updates are immediate and secure.

Want more details? Click here for a deeper dive.



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