Gravitational Energy System
Hydro Power OSS

DUTCH TECHNOLOGY
Water & Energy

What is OSS

DUTCH TECHNOLOGY
Water & Energy

Technology based on gravitational pull & upward buoyancy movement to generate Clean Energy using a Synchronous Alternator working at 1,800 rpm using reinforced containers, trasforming Gravity into Mechanical Torque using the Arquímedes Principle.

24/7
365

Clean Energy with small space usage & no climate dependency.

Gravitational Energy System
Hydro Power OSS

Gravitational Energy System
Hydro Power OSS

Energy systems include:

- Gravitational to torque converter.
- AC synchronous alternators.
- Air transfer module.
- Off grid system start and control.
- Industrial control and system monitoring.
- Remote process monitoring.
- Modular system housing.
- 10 Year full GES system warranty.
- Clean
- Cost Effective

Energy modules, benefits:

- Fixed cost energy savings.
- On demand energy 24/7.
- System ownership.
- Modular system can be expanded as your demand changes.
- Energy saving clean generator.
- Carbon free generation of energy.
- Supervision and tech support.
- 10 Year full GES system warranty.

Modular Energy Features

DANTRU 100kw - Clean, cost effective Energy systems include

- Gravitational to torque converter
- AC synchronous alternators
- Air transfer module
- Off grid system start and control
- Industrial control and system monitoring
- Remote process monitoring
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- 10 Year full system warranty

Modular Energy Benefits

DANTRU 100kw, energy modules, benefits:

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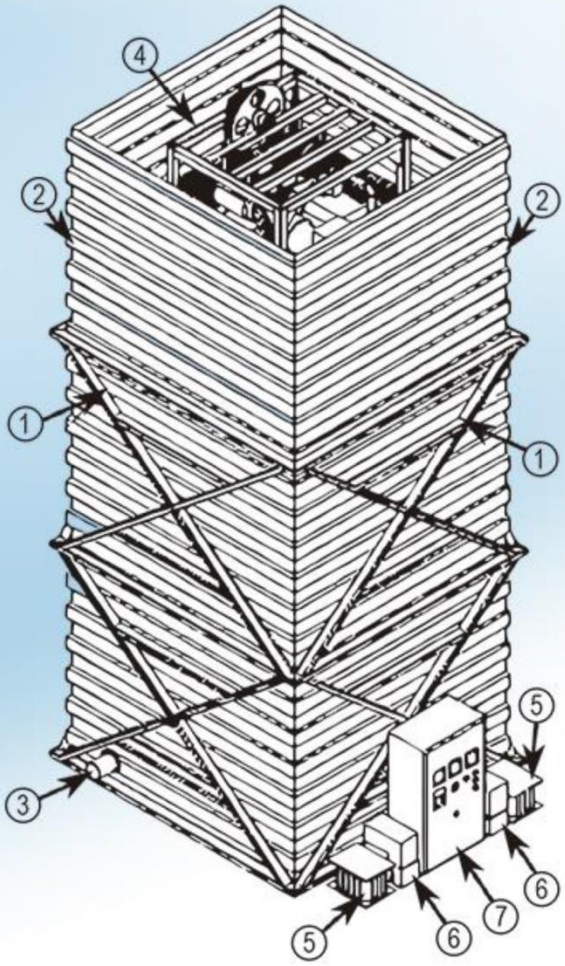
Gravitational Energy System



DANTRU OSS Clean Electric Generator System

① Generator housing
② Container structure
③ System drain
④ Generator mount
⑤ Power inverter
⑥ Self starting module
⑦ Control Cabinet

Generation Equipment 100KW (Ver 2.0 2017)

Electrical	Eléctrico	
Output Frequency Range	Frecuencia de Generación	50 - 60HZ
Starting Lap Time	Tiempo de Arranque	15 s.
Speed Control Accuracy	Exactitud de Control Velocidad	3-5%
Output Operating Voltage	Voltaje de Generación	220 - 460 V
KWh Generated per Unit	KWh Generados por Unidad Modular	100KWh
Operating Capacity - KVA	Capacidad de Generación Alternador WEG	141 KVA / 112.8 KW
Synchronous Alternator Type	Alternador Síncrono WEG - Tipo	12 terminals / 4 Poles
Alternator Certifications	Certificaciones del Alternador	CSA (Canada), CE (Europe), UL (USA)
Isolation Class	Clase de Aislamiento (Alternador)	Class H
Alternator Max Temperature	Máxima Temperatura en Alternador	125 Celsius
Minimum & Maximum Capacity	Capacidad Mínima & Máxima GES	100KWh - 100MW

Physical	Físico	Specifications
Water Contained per 100KW GES Unit	Agua Contenida por 100KW GES Unit	38,000 l.
Shipping Weight	Peso Neto en Seco - Embarque	7 Ton
Net Weight of Full System	Peso Neto en Operación	45 Ton
Max Height required for operation	Altura Máxima Requerida	7m.
Base Area for Operation	Area de Base Operativa	9 m2
Recommended Space per Unit	Area Recomendada por Unidad	12 m2
Color of Unit	Color Estándar de Unidad	Blue/Azul
Operation Requirement	Requerimiento para Operar	Fill up with Clean Water / Llenar con Agua

Environmental	Ambiental	Specifications
Environment Temperature	Temperatura Ambiental Requerida	-5 to 45 °Celsius
Humidity	Humedad Ambiental	0 - 80%
Storage Temperature	Temperatura Almacenamiento	-20 to 85 °Celsius
Noise (dB)	Nivel de Ruido	72 dB
Height Over Sea Level Range	Altura sobre el Nivel Medio del Mar - Rango	1 - 3000 m.
Water Disposal every 3 yrs	Tratamiento del Agua cada 3 años.	Non Hazardous Water / Tratamiento de Efluente no Contaminante
Water in Storage Cycle	Ciclo del Agua Almacenada	5 yr / 5 años
Makeup of Evaporated Water	Recuperación de Agua Evaporada	Approximately 3% Monthly / Aproximadamente 3% Mensual

Operation & Maintenance	Operación & Mantenimiento	Specifications
Operation Requirement	Requerimiento Operativo	Only during Startup / Solo en Arranque
Maintenance	Mantenimiento	Yearly Preventive Maintenance / Mantenimiento Anual
Re-Start	Arranque	Instantaneous power loss restart / Re-arranque inmediato
Air Pumping Pressure	Presión de Aire en Bombeo	2 Bar
Energy Storage	Almacenamiento de Energía	10KWh - Battery / Batería
Yearly Operating Hours	Horas de Generación Anual	8590 hr.
Maximum Down Time per Yr.	Tiempo Máximo de paro de Mantenimiento	7 days / 7 días
Equipment Factory Guarantee	Garantía de Fábrica Total	10 yers / 10 Años

DUTCH TECHNOLOGY
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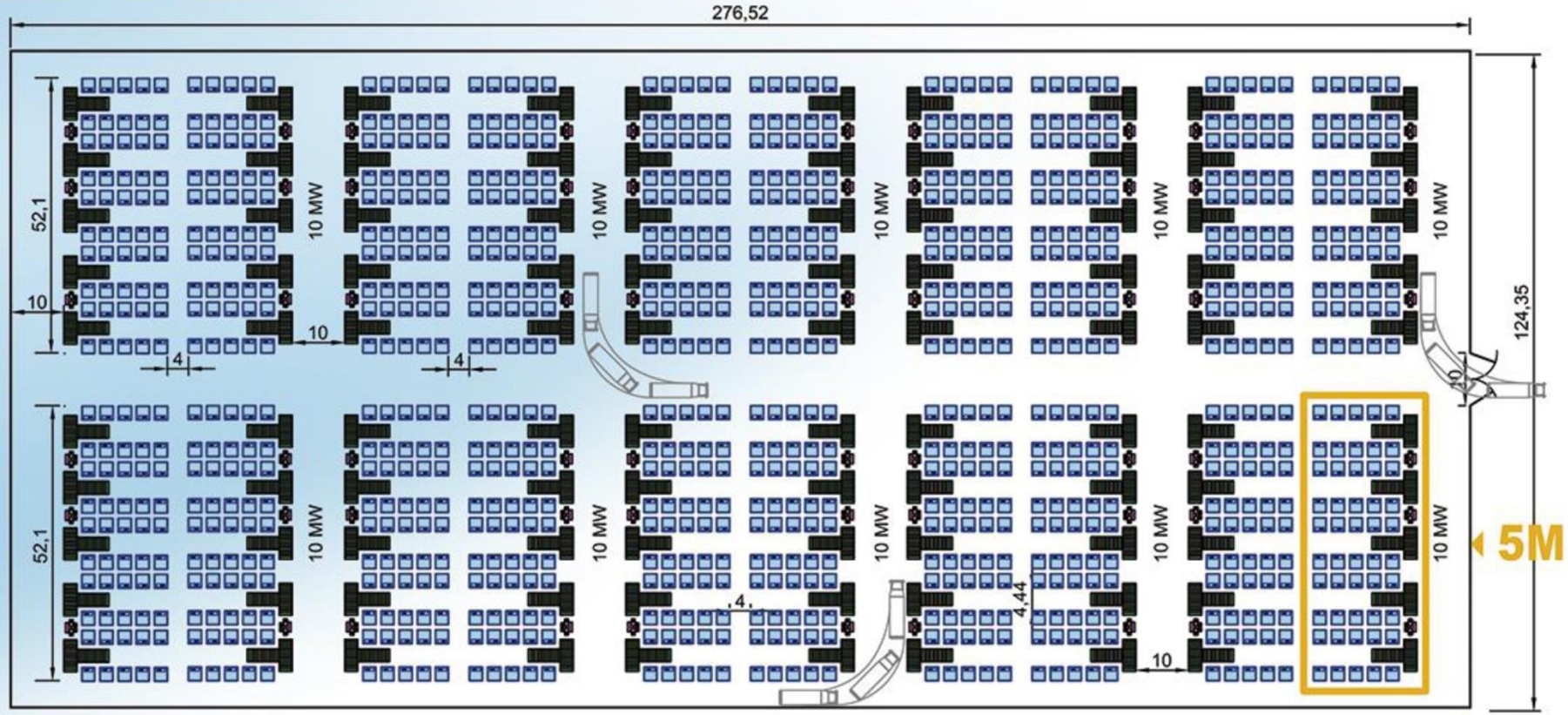
Specification Sheet

100 MWh

AREA = 34.385.26 M²

LAYOUT PLANT GENERATION



Project Phases:

Site Survey

STS will develop a site survey and pre-engineering effort to validate our proposal on project site. Civil & Electrical considerations are key for project execution.

Project Specifications

Based on the site survey we develop the Project Specifications to comply with local & national standards on civil and electrical works and installations.

Construction

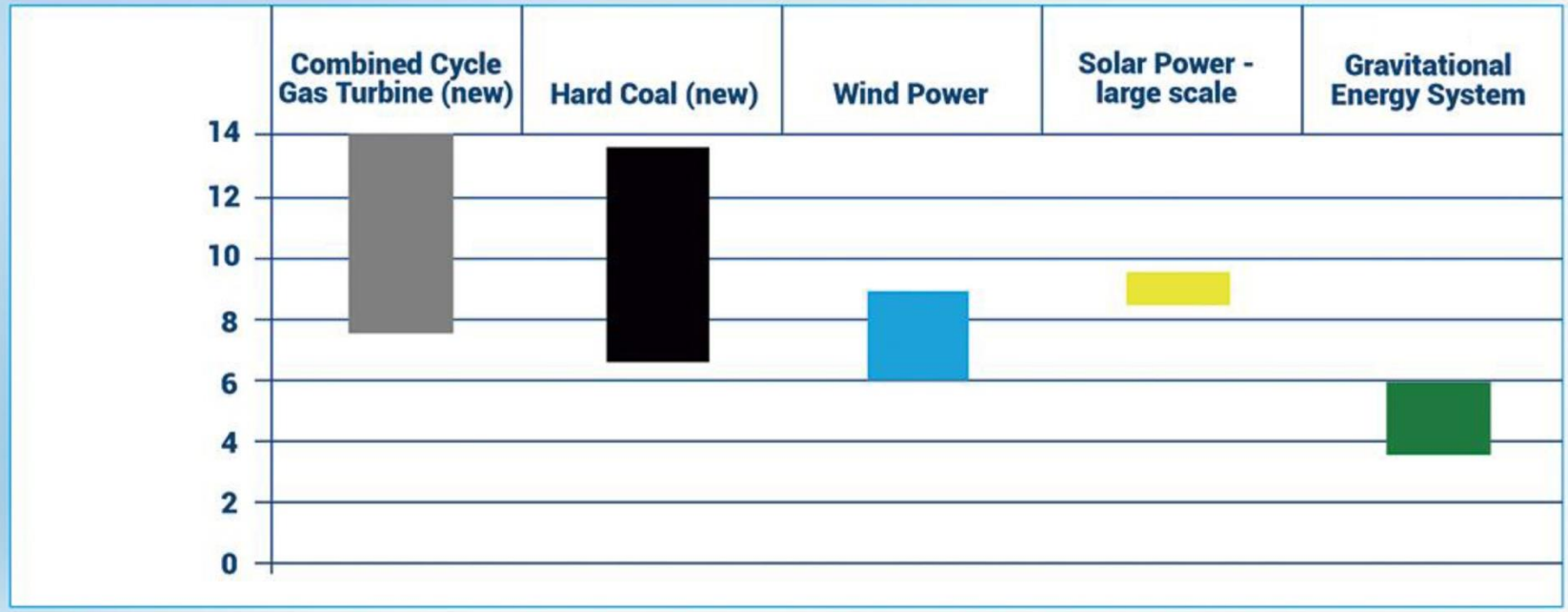
The new site construction will use local approved contractors to comply with local standards & develop the preparation infrastructure to receive GES Units on time.

Contract

Out contract will state all the required works, engineering effort & equipment features that comprise your project needs and energy requirements to be delivered on site.

Levelized Cost of Electricity
(Cents/Eur per KWh)

Levelized Cost of Electricity (ct/Eur per KWh)	7.40 17.39	6.70 13.53	5.97 8.95	8.56 9.42	3.56 5.97



Source: EWI, Trendstudie 2022, Appendix
Valores proyectados vigentes al 2022

GENERATION DATA for 3 & 5 MW

SPECIFICATIONS

Nominal Voltage	**440 – 480 V**	**220 – 240 V**
Requirement Coverage	**100 % energy & peak demand**	
Nominal Power per Unit	**100 KWh**	
Yearly Generation per System 3MW & 5MW	**257,760,000 KWh**	**429,600,000 KWh**
Recommended Area for the Installation	**500 m2**	**800 m2**
Interconnection to the Grid	**Our Electrical Scope of Work considers the interconnection of the System to the existing Distribution panel up to 50 meters for the Installation site. The Interconnection to the Grid Scope of Work is not Included and will be quoted based on client´s requirements & specifications for proper funding & execution on site.**	

Commercial Conditions:

Type of Project	Commercial Conditions:
Turn Key Project	**70% Down Payment**
Equipment Ready to be Shipped	**20% Prior to Shipment**
Equipment Installation, Commissioning, Debugging & Startup	**5% Prior to equipment Installation on site**
Equipment Generating the required Electric Power	**5% for Project Completion**

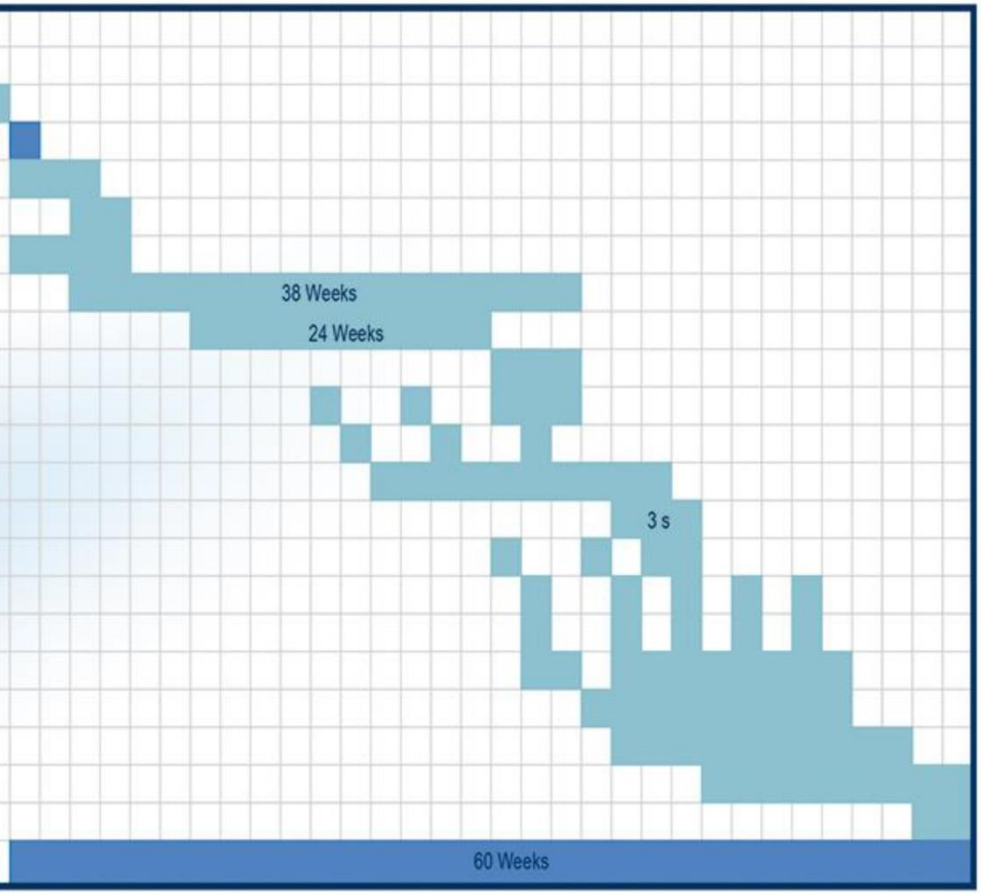
NOTES:

Feasibility study must be conducted to clarify Infrastructure Needs, Logistics Operation & Installation Tactics.
Pre-Engineering Survey will confirm the Proposal Economics to ensure proper project deployment.
The cost does not include equipment customs clearance, duties, fees & truck loading and transport to the site.

Critical Path - 500 KW Units Shipment

5MW Project Deployment - Sierra Leone

ID	Activity	Duration
1	Ofter Acceptance & Purchase Order	1w
2	Contract Signature	1w
3	Down Payment on WE4LIFE Account	1w
4	Engineering Study & Reports	3w
5	Project Addendums based on Engineering Studies - Cost Validation	2w
6	Base Project final Definition	4w
7	Manufacturing Start in Holland	38w
8	Civil, Electrical, Pluvial & Infrastructure Works	24w
9	Equipment Manufacturing Completion Process & Validation	3w
10	Plant Inspection Prior to Shipment	4w
11	Wire Trnasfers for Equipment Shipment (every 500KW)	1w
12	Rotterdam Shipment to Freetown	4w
13	Customs Clearance & Tax Payment	3w
14	GES Import & Loading	2w
15	Shipment to Project Site	1w
16	Unloading from Trucks to Project Site	1w
17	GES Interconnection to Existing Panels & Water Loading	12w
18	Equipment Commissioning, Testing & Debugging	10w
19	Interconnection Assurance w.Units Running (Vacuum & Load Rum)	10w
20	Electrical Variables Test & Power Delivery Assurance	12w
21	Inauguration Celebration with Sierra Leone Presidential Visit	2w
	Effective Weeks post Down Payment & Project Approval	**60w**



5MW System Area:

RPCONNECT PARTNERS GROUP

Reasons to Invest:

Reasons to Compete Worldwide:

- Best LCOE Available.
- AC synchronous alternators certified by UL, CE, CSA, etc.
- Disruptive Technology.
- Clean Energy with harmless effects to the Environment.
- Industrial control and remote system monitoring & operation.
- Modulating Capacity for Peak Demand Requirements.
- Modular system housing for long term projects.
- 10 Year full system warranty.
- Relocatable System to any type of Environment.

Capabilities:

System monitoring

- is constantly monitored & diagnosed to prevent failures.
- is operated remotely, to avoid overloads & hijacking.
- monitors all system variables to ensure a reliable Operation and Maintenance.

Equipment Design:

- was designed to operate continuously ensuring proper power delivery.
- uses an Energy Management System to ensure proper peak demand coverage.

Project Management:

- Systems are designed, constructed & delivered with a dedicated Project Management Plan to ensure the expected results are met complying with the Quality & Timely Project Delivery on Site.

Contractors:

Our Turn Key makes sure that all contractors, engineers & managers work for the same Mission & Project Goals Delivery.
Our Goal is to exceed your expectations on Energy & Water Delivery on Time & Quality.

RP CONNECT PARTNERS GROUP

Technology Implementation requires a dedicated site Survey, Feasibility Study & Pre-Engineering Works. Such Diligence will confirm or add the required activities, Civil, Electrical & Infrastructure Works necessary for the proper project deployment.

We love to develop well planned projects that deliver & exceed client´s expectations.

Consider our company as your best partner to develop clean energy projects for a better Future Worldwide.

B-1 L-16 Ph-2 Northgate Park Executive Homes, Santo Cristo, City of San Jose Del Monte, Bulacan, Philippines
www.dantru.net +63927-149-8440

RP CONNECT PARTNERS GROUP
www.rpconnect.com
17 Parizska, Prague, Czech Republic 11800
84 Atherton Avenue, Atherton, California, USA 94027
1 Shangri-la Place -T2-12R, St. Francis Street, Mandaluyong City, Philippines 1555