

FAST MOVING TECHNOLOGY

STÄUBLI

Swarm Technology for Rural Electrification

Philippines Mini-Grid B2B Forum 2018

A passion for innovation | Manila | 20.09.2018 | Boris Horn



Three activities – four divisions

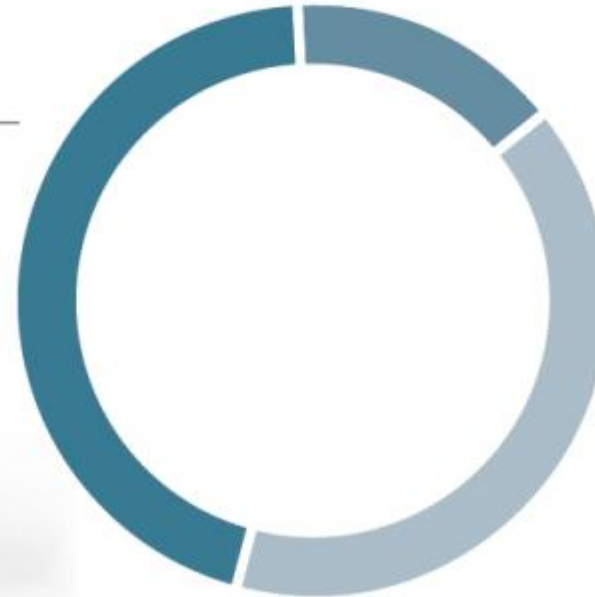


Connectors

Fluid Connectors
Electrical Connectors



Robotics



Textile

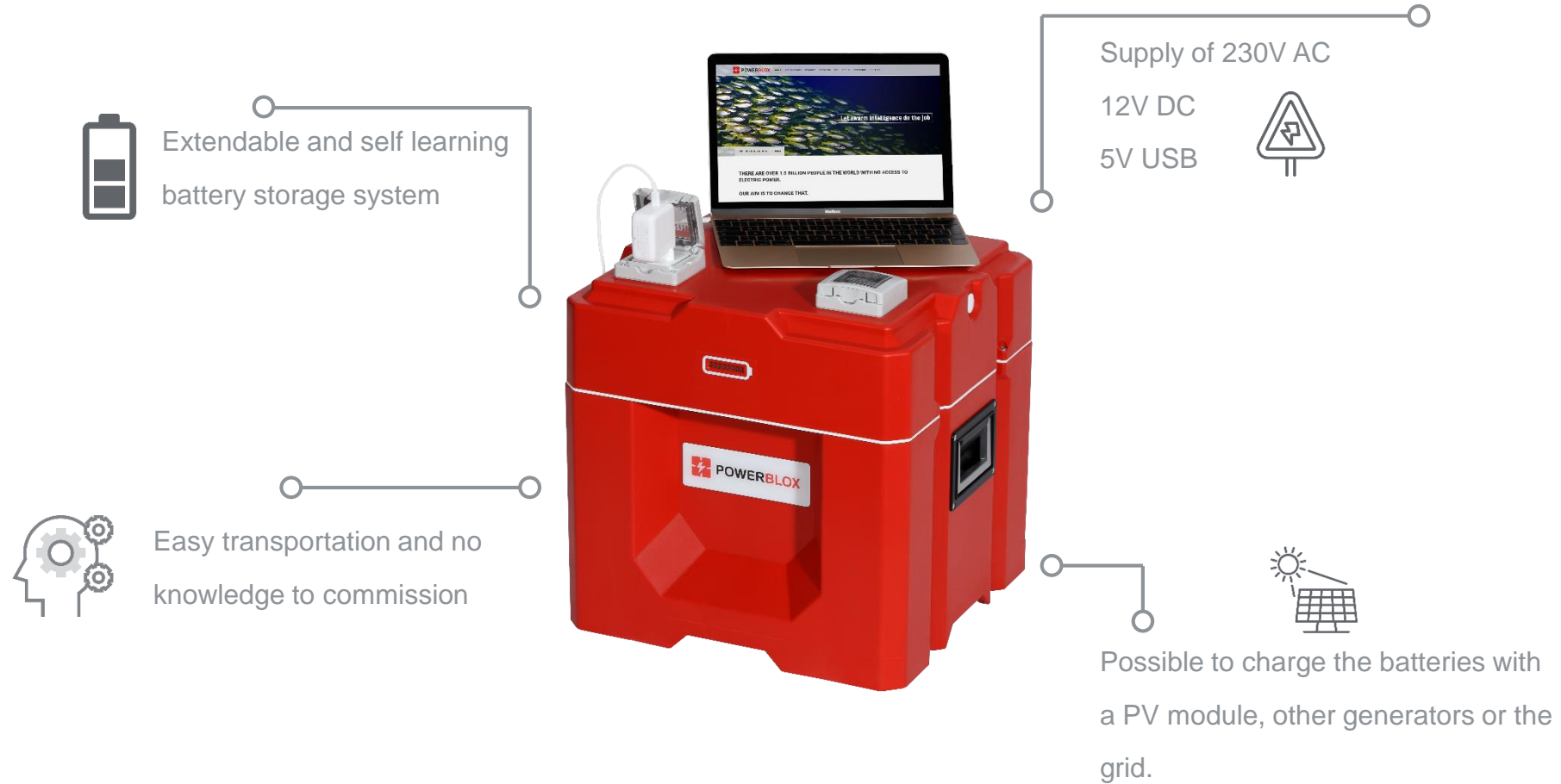


The Story...

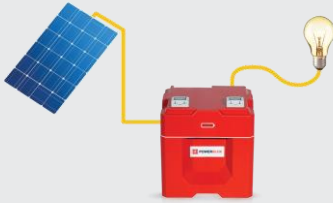

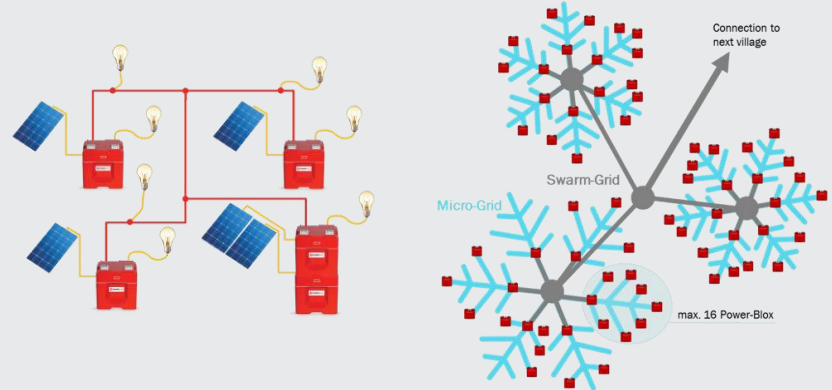


Swarm Technology for Rural Electrification

The Power-Blox Concept



The Swarm Grid

Standalone	Stacking	Swarm Grid
		
<ul style="list-style-type: none"> Instant 230V AC through plug 'n power Works with various energy sources, e.g. solar module 	<ul style="list-style-type: none"> Modular expansion allows scalability according the actual demand No configuration needed Fail safe 	<ul style="list-style-type: none"> The swarm works stand-alone The more units the higher the power and stability of the grid Every consumer in the system can use the full power of all units The swarm can be extended, shortened or split without any engineering

Swarm Technology for Rural Electrification Applications

Energy Sources



Solar module



Wind mill



Water turbine



Biogas generator



Diesel generator

Energy Storage



Energy Consumers



White good



Brown good



Sewing machine



Portable charger

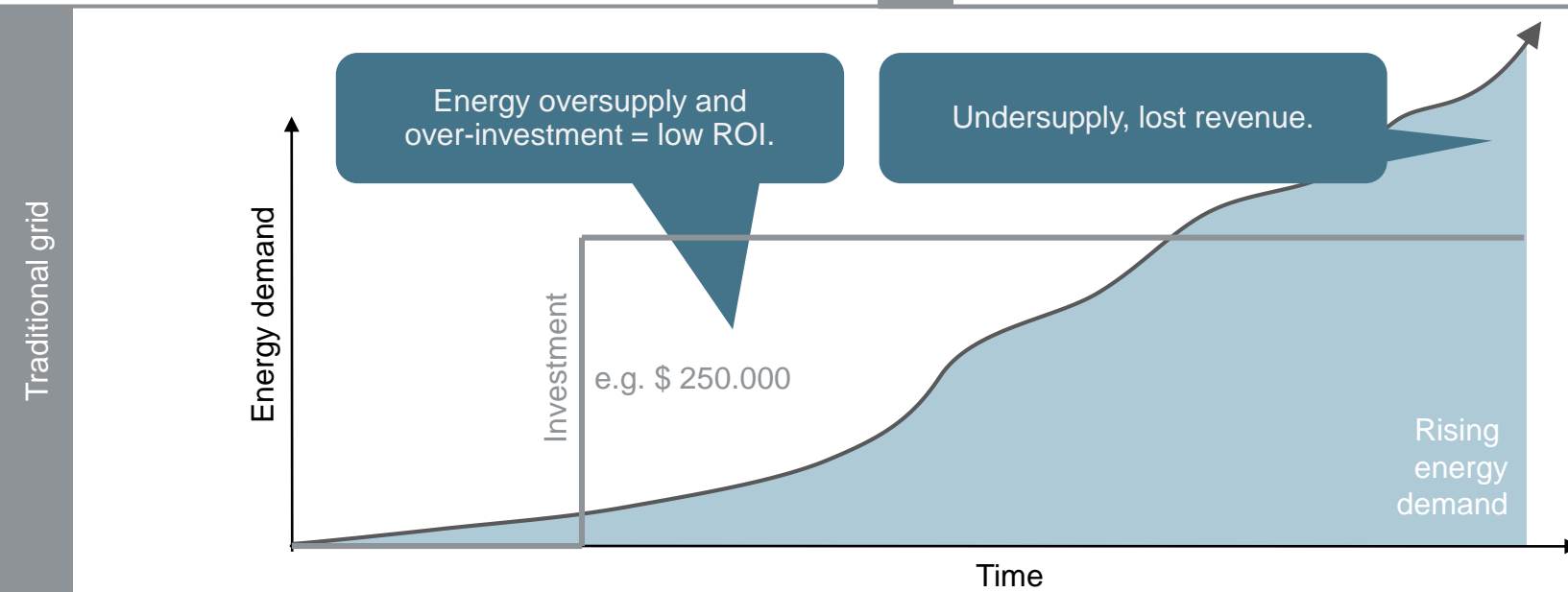
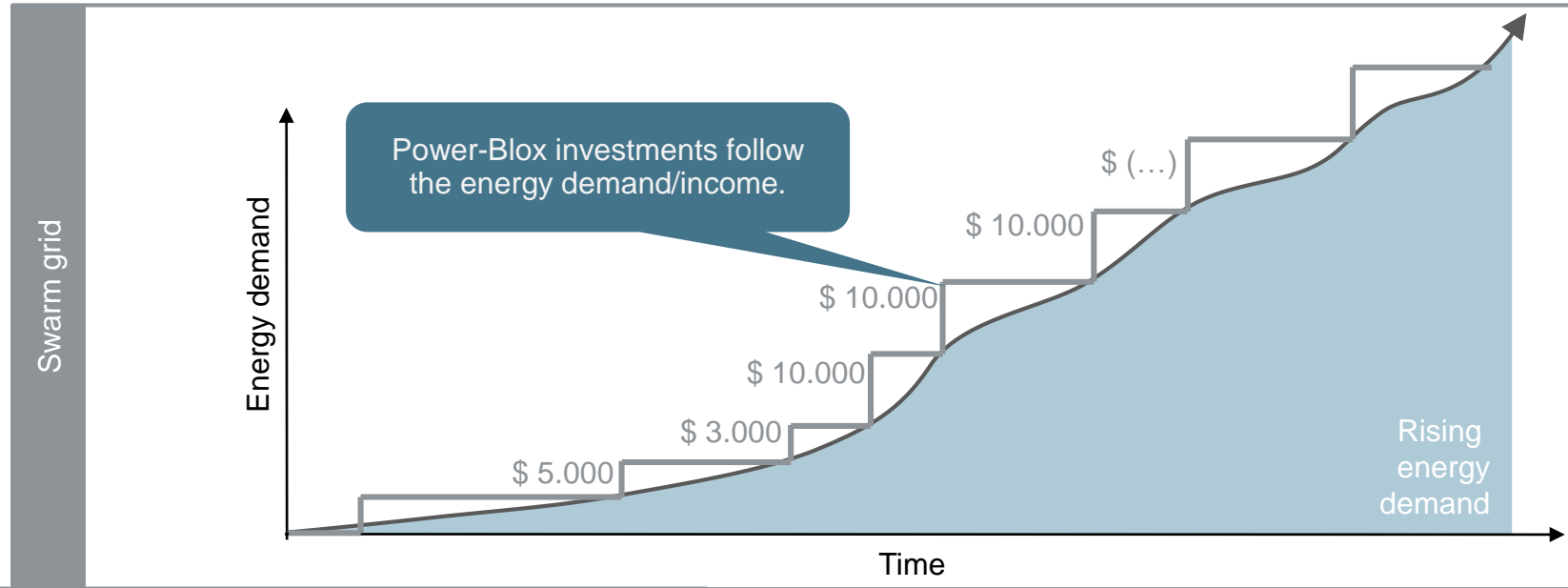


Grain mill



Water pump

Swarm Technology for Rural Electrification Financial Implications



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Thank you for your attention!

