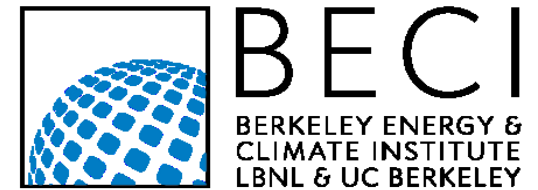


SISTEMAS HÍBRIDOS Y ACUMULADORES DE ENERGÍA RENOVABLES

Ing. Alberto Mario Moros Marcillo



Ingeniería Eléctrica





CONTENIDO

- Introducción**
- Problemática y Contexto Colombiano**
- Área de trabajo – Energías Renovables**
- Producción Intelectual**
- Emprendimiento**





Premios

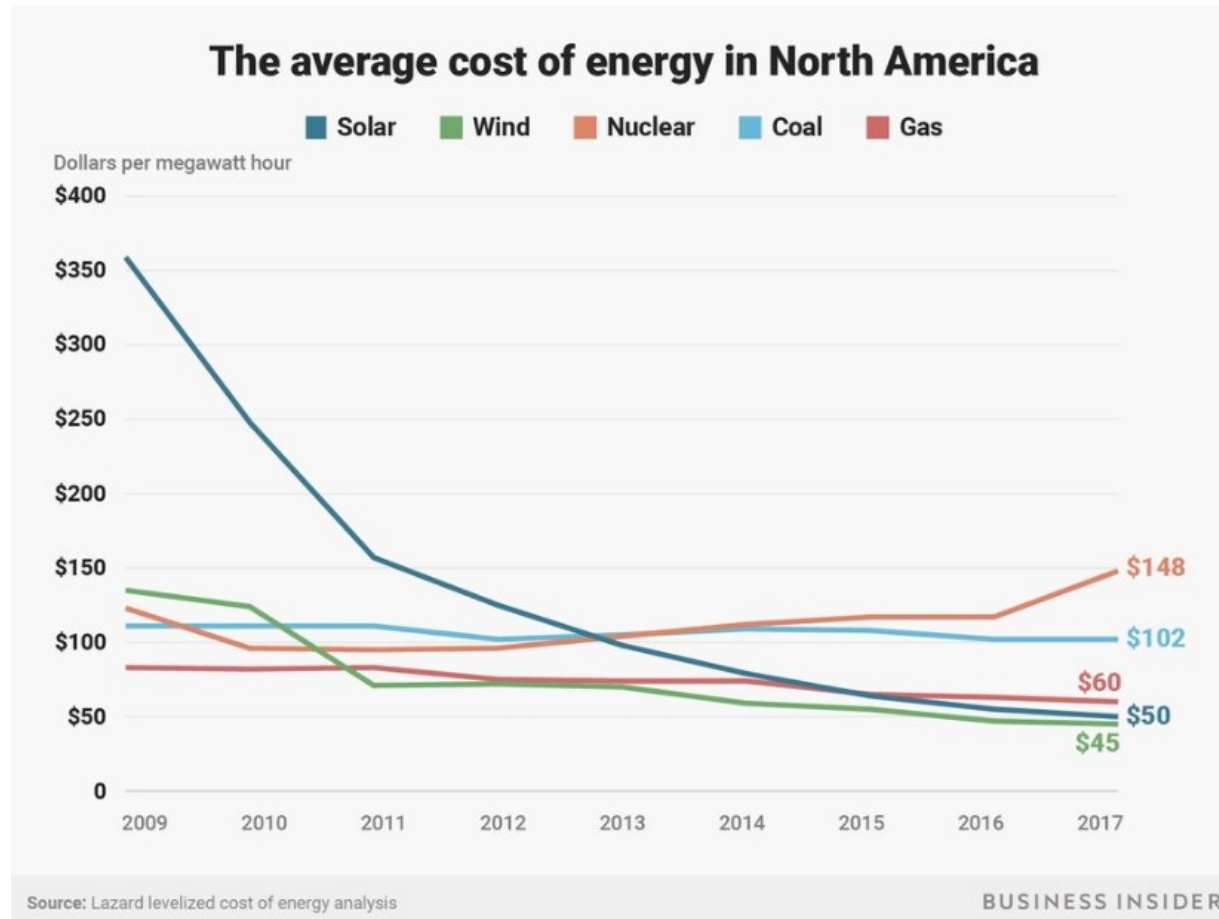


**WIPO – OMPI GOLD MEDAL
INVENTOR (2016 - 2017)**





Prespectivas

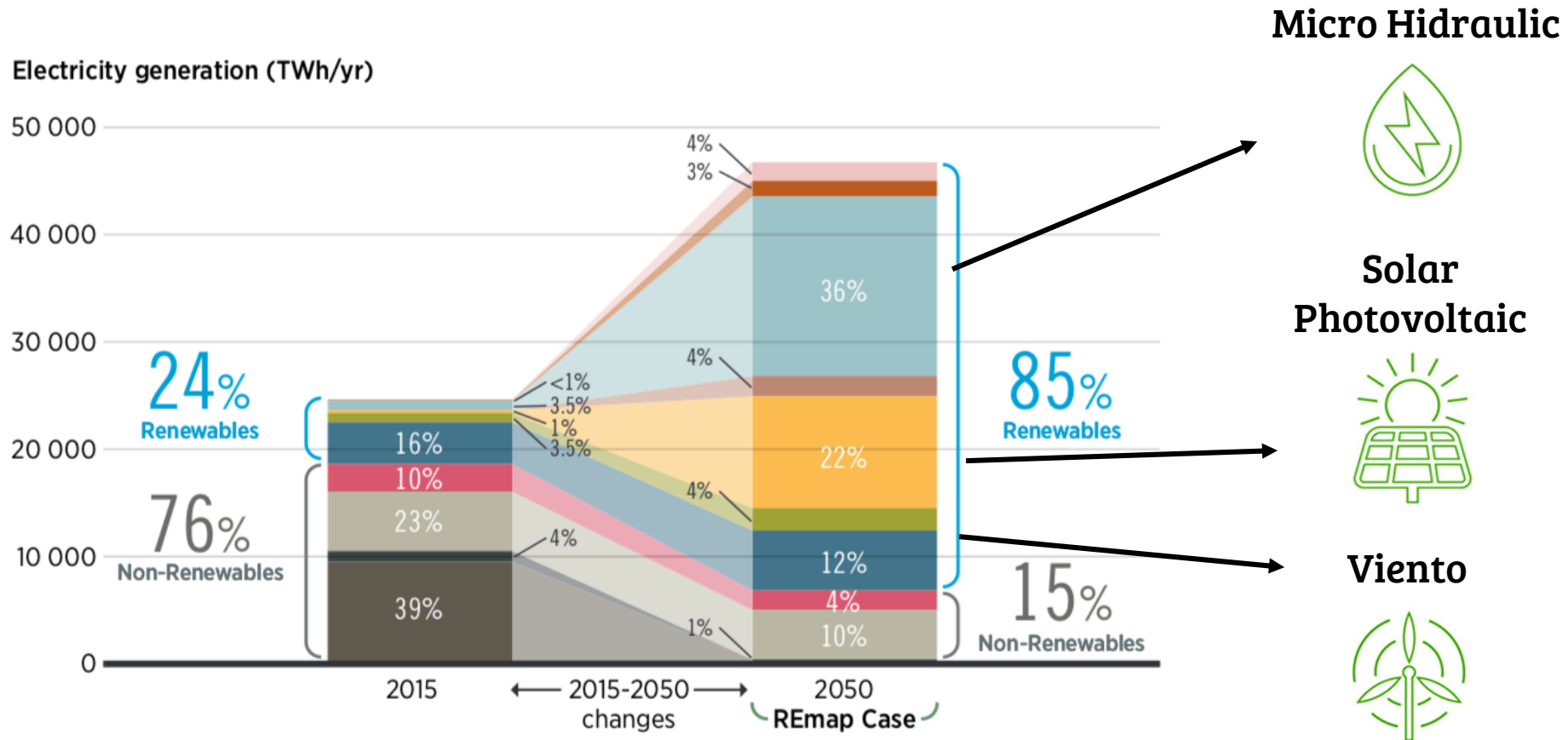


Source: Lazard

Cost reduction in renewable energies over the last years.



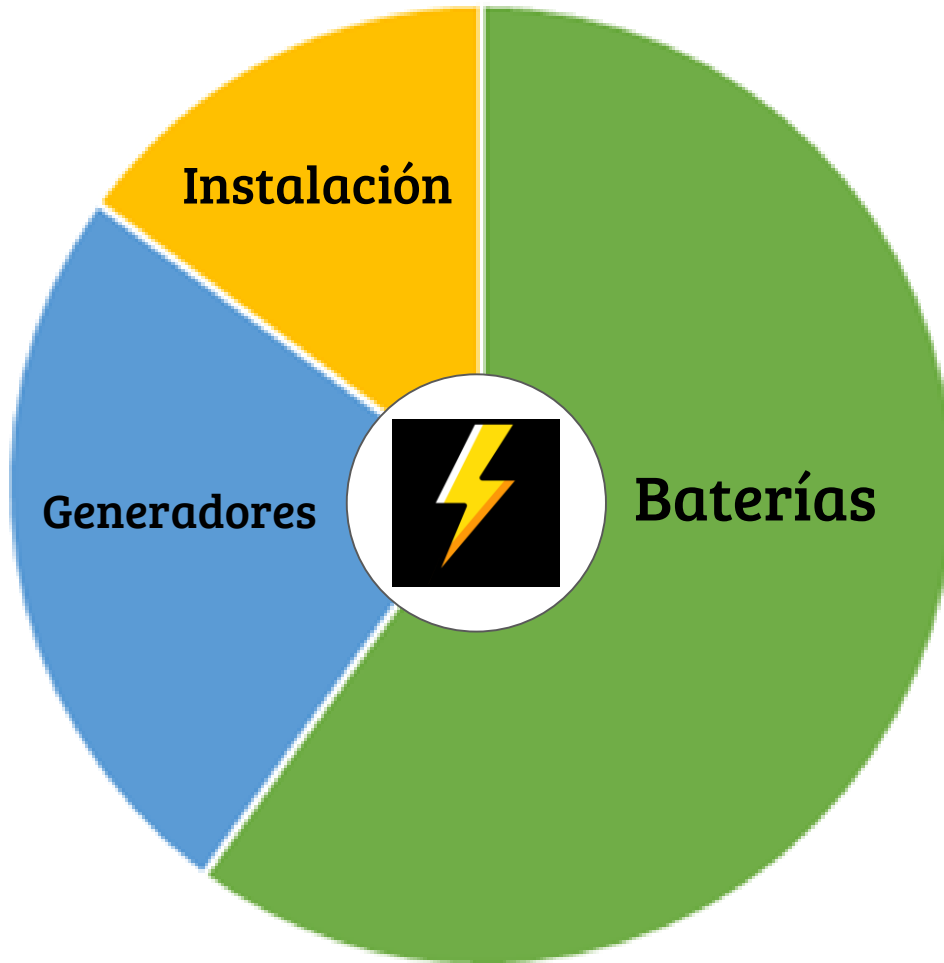
Proyección Global para 2050



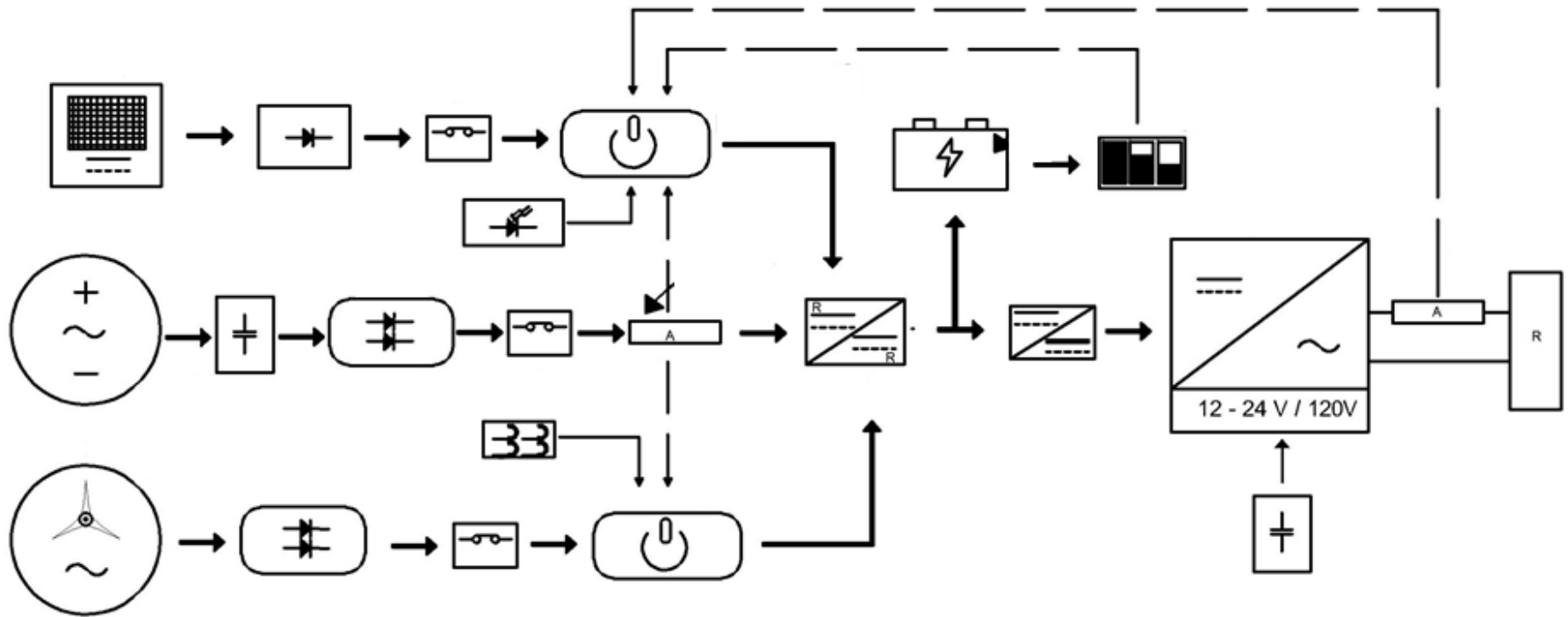
Source: Irena, Global Energy Transformation. A roadmap to 2050

Energy generation for C02 reduction scenario worldwide.

Instalación tradicional

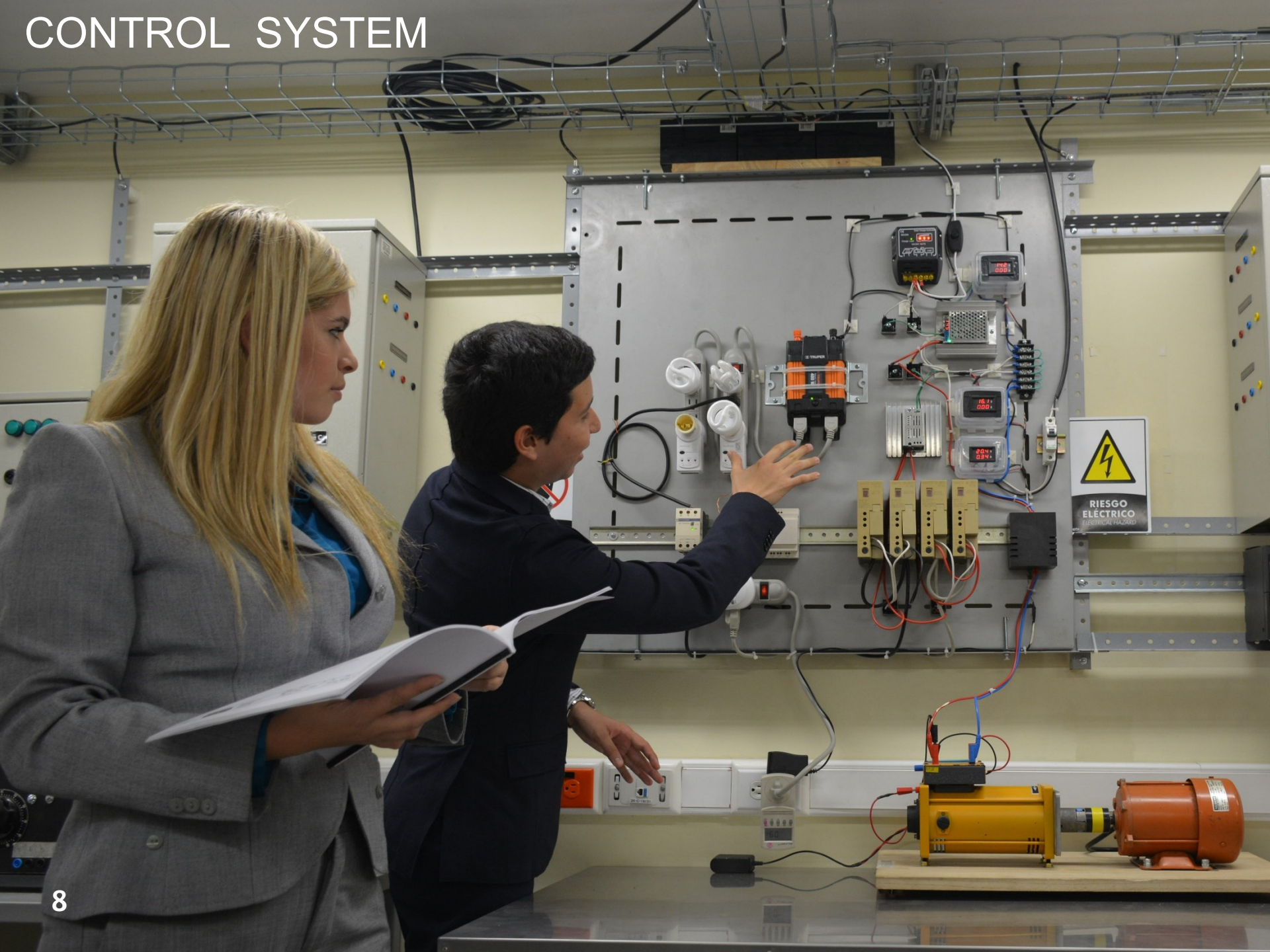


Sistema Tri-hibrido de Energía Renovable



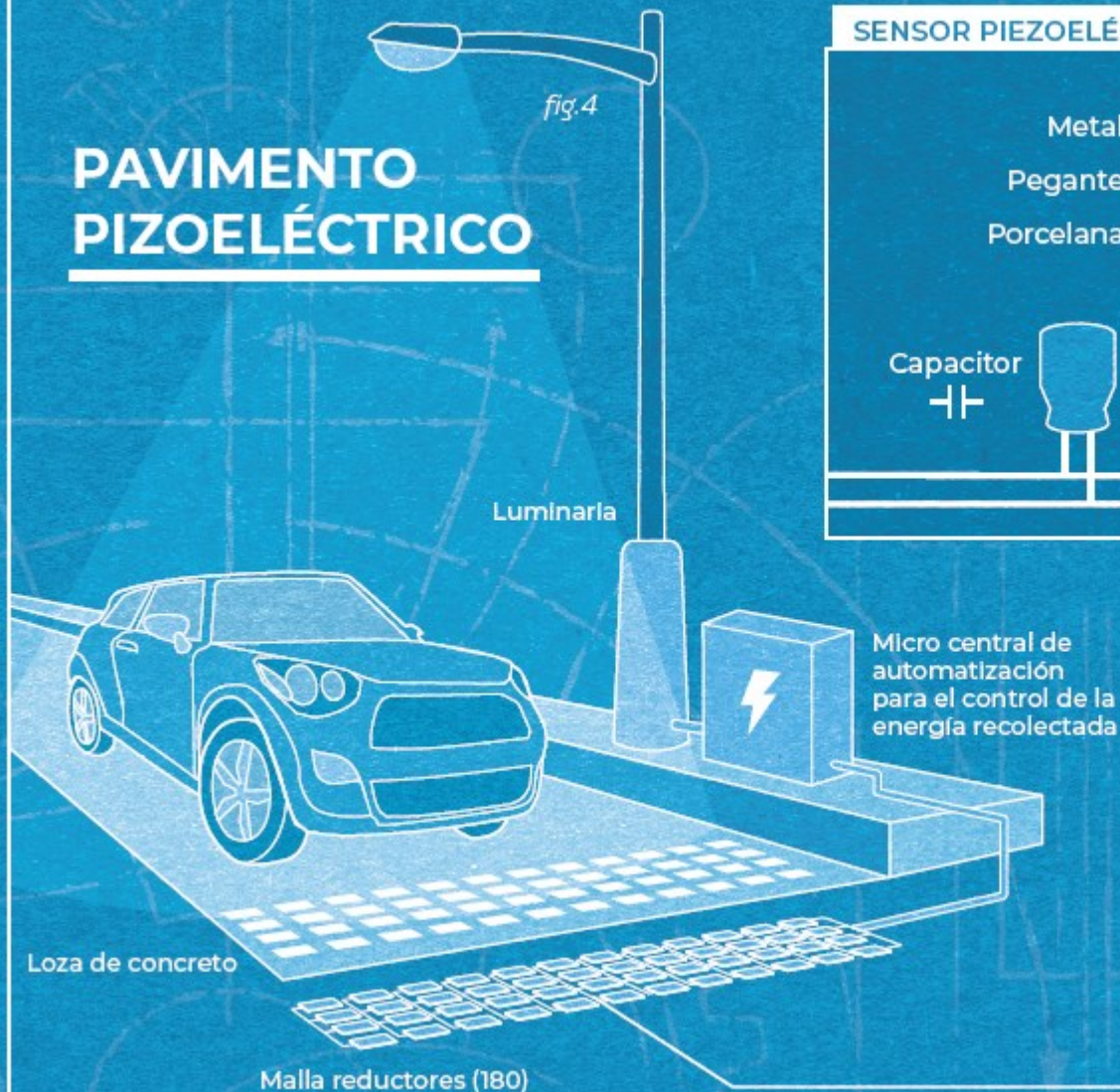
Patente NC20190009623 - Colombia

CONTROL SYSTEM



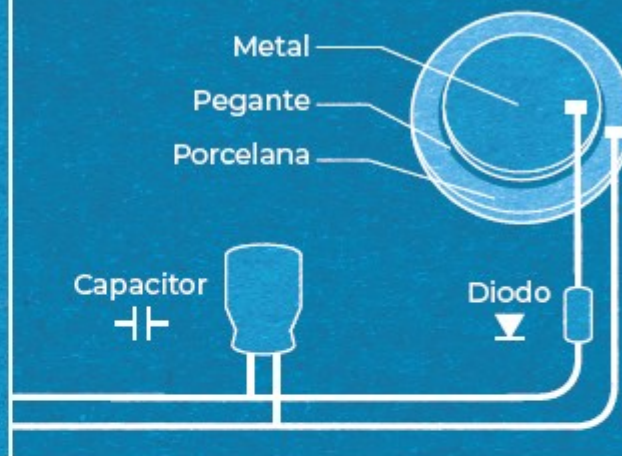
PAVIMENTO PIZOELÉCTRICO

fig.4



SENSOR PIEZOELÉCTRICO

fig.6



REDUCTOR

fig.5



9 sensores

Pavimento Generador de Energía



**1600 W por 4
horas a 10
Iluminarias led**





InnElektrik

Limitless Energy





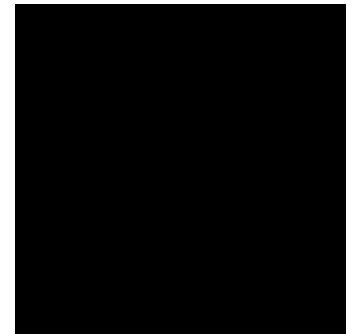
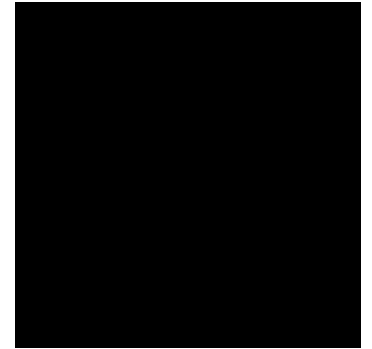
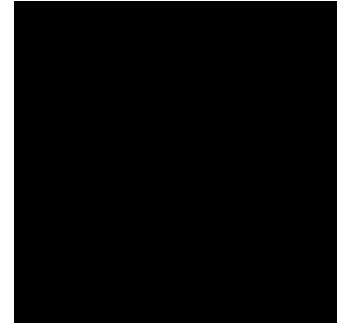
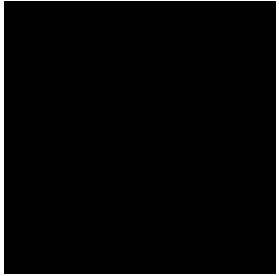
TRIDENTIS





TEAM

Randy Aguirre



Alberto Moros



Micro Hydraulic



Weather



Grid/Batteries

Wind



Energy
Consumption



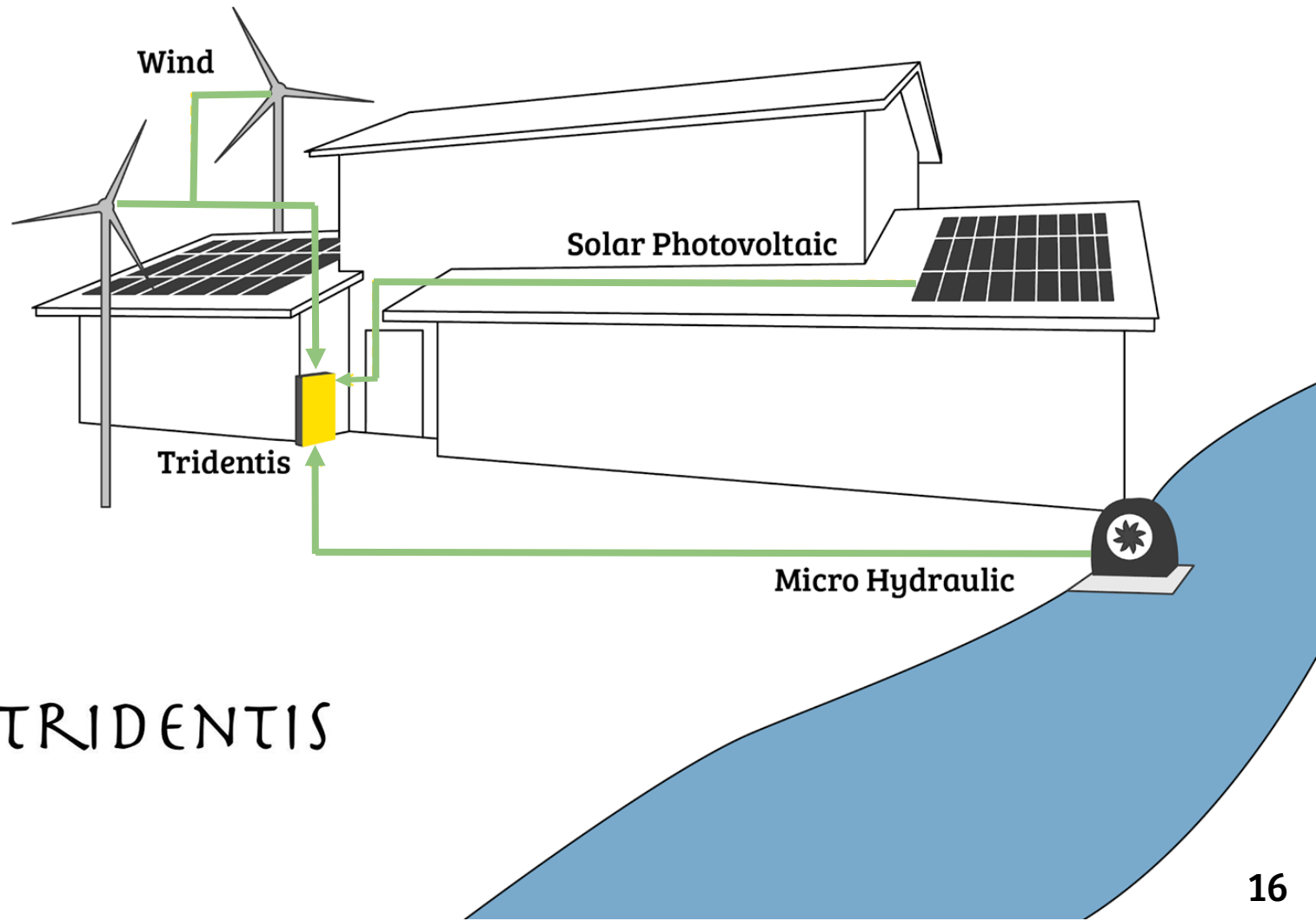
Solar Photovoltaic



ON/OFF GRID
SETUP

Support



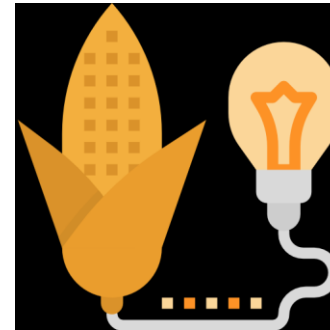
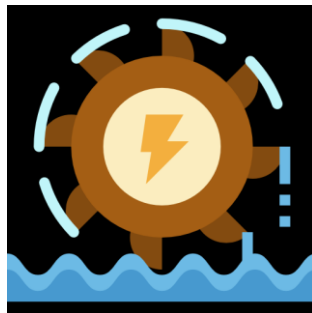
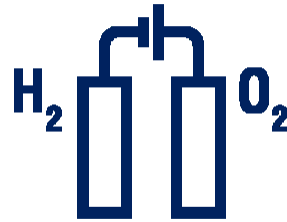
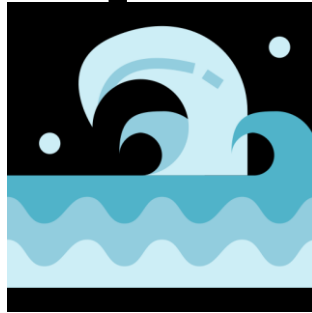
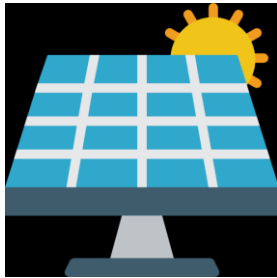


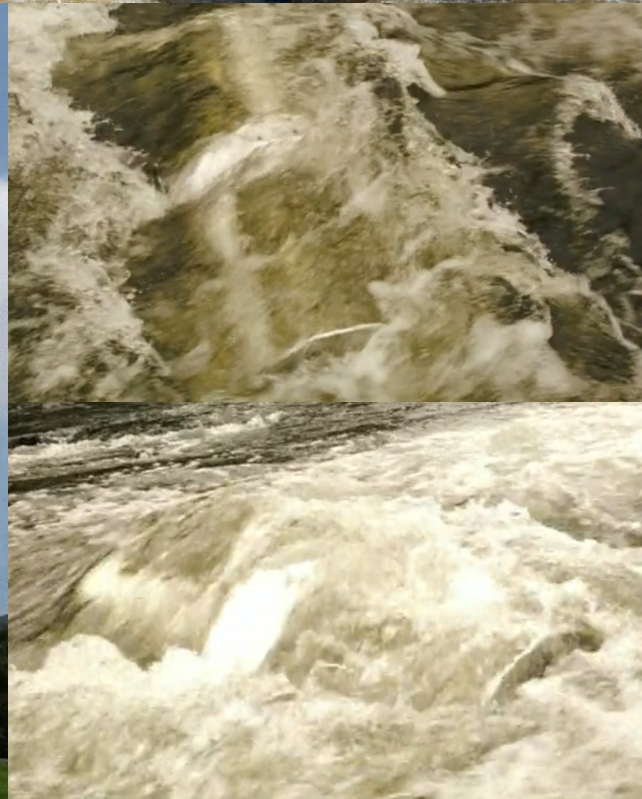
TRIDENTIS



Almost Infinite Potential

35 different setups for a 3 inputs device







Participaciones Importantes



COLOMBIAN
NATIONAL
INVENTOR
AWARD





Equipo



Impacto Social



Guajira - Region Caribe



Chocó - Region Pacífica

● Lugares con dificultades Eléctricas

Source: El Tiempo - Colombia



Impacto Social

Wayuu Community in La Guajira Desert (2016)



Una triste antítesis pero la principal motivación: Comunidades vulnerables rodeadas de los mejores recursos energéticos limpios de Colombia.





Consumidores

Propuesta de Valor



Mercado y segmento de clientes

Clientes que necesitan un servicio energético fiable para las tareas diarias.





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