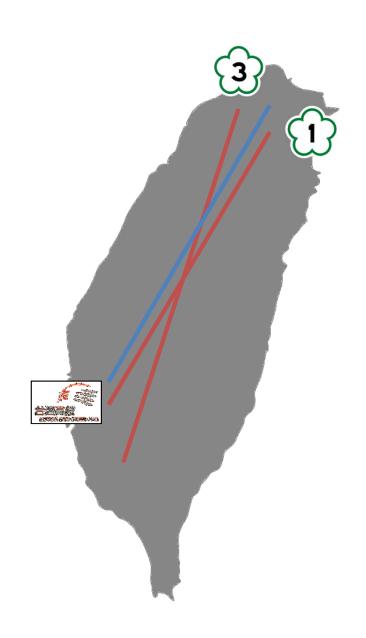
#### Building the "green highway"

Bart Linssen

#### Wind energy in Taiwan



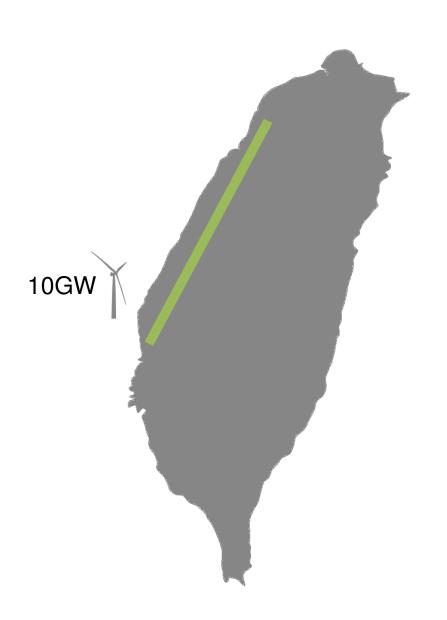
#### "Highways" drove Taiwan's economy



If we want a green economy...

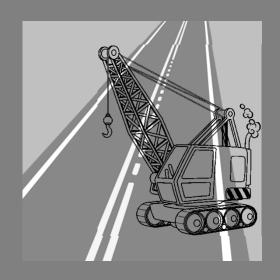


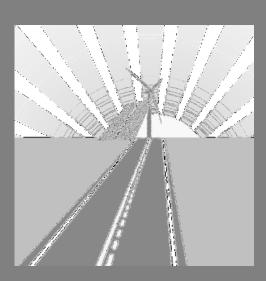
#### ...It's time to build a green "highway"



#### Building the high way to energy abundance







#### Energy abundance

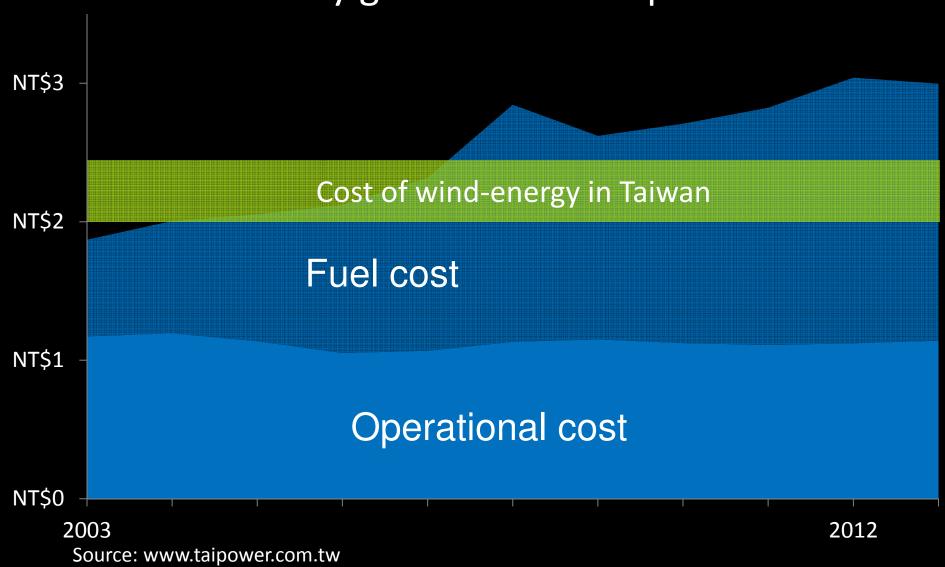




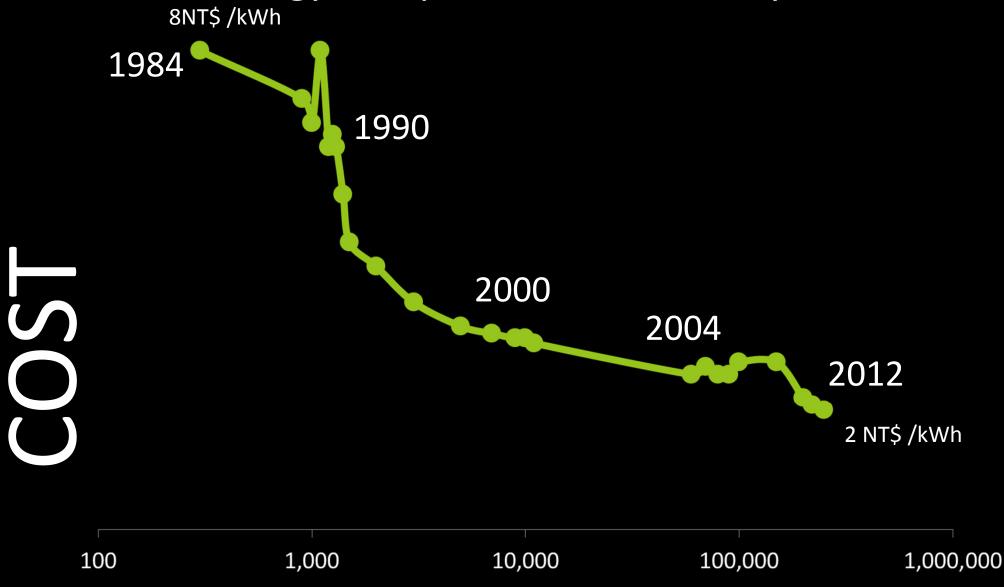
#### Cheap



#### Taiwan Power Company Electricity generation Cost per kWh







Source: Michael Liebreich – Bloomberg New Energy Finance



#### **Potential**



# OWE Windturbine



28,000 solar panels

## Onshore Wind 10GW

Affordable

2-3NT\$ / kWh

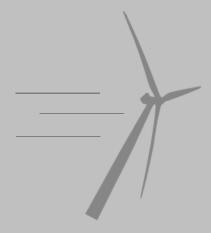
Local employment

>1,000 local jobs





#### Fast deployment





#### **Employment**

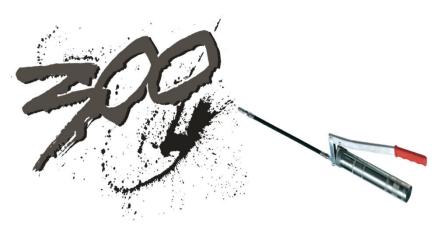


#### **Employment**

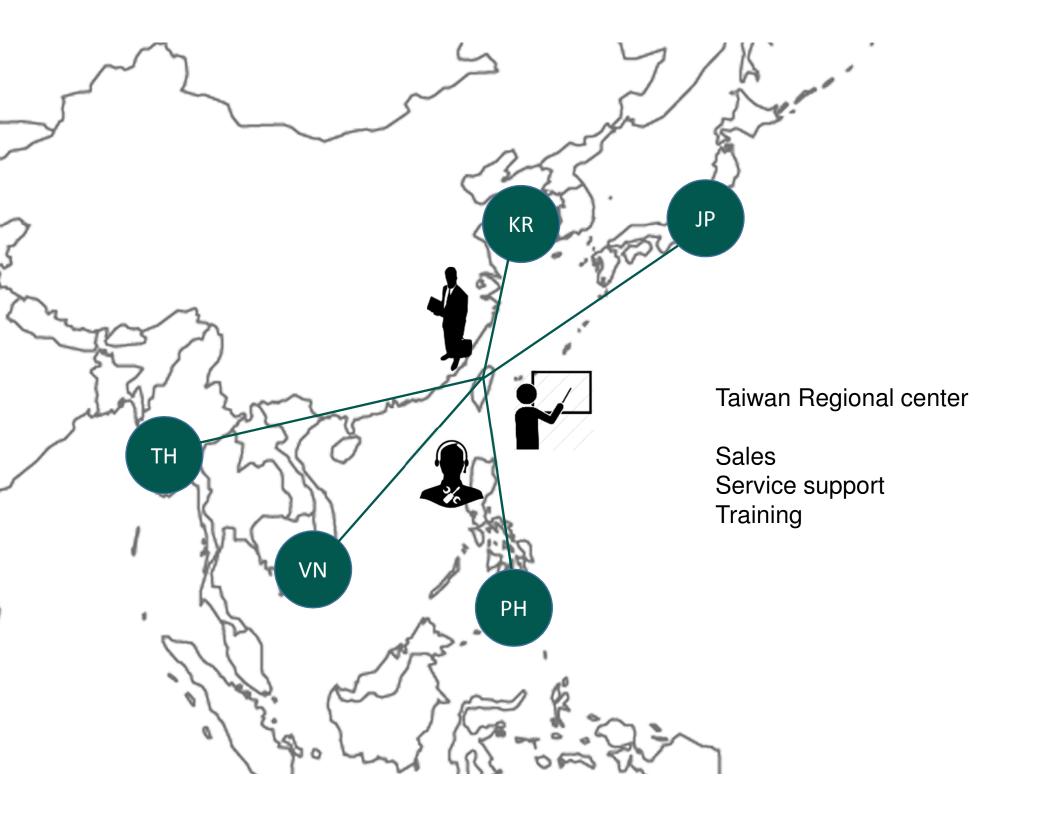




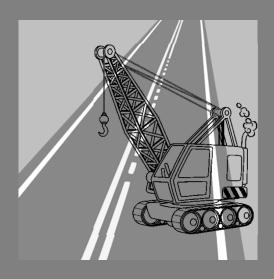








#### Building the highway

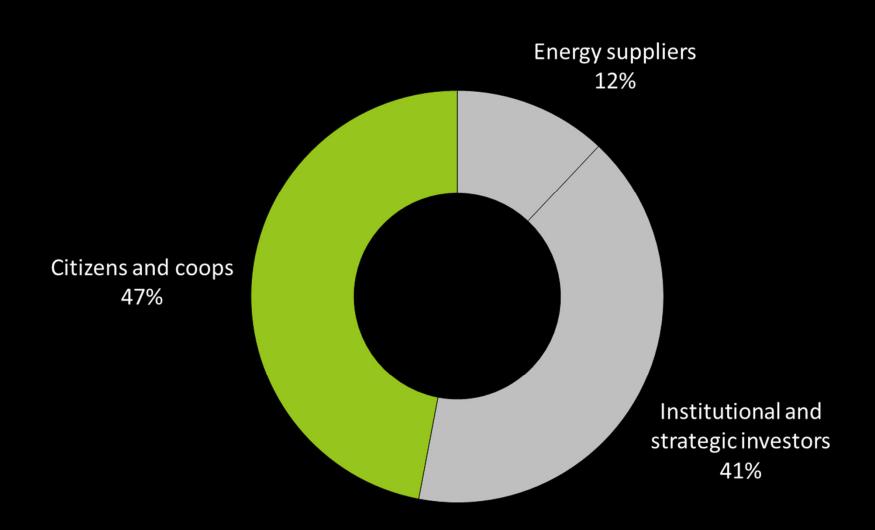




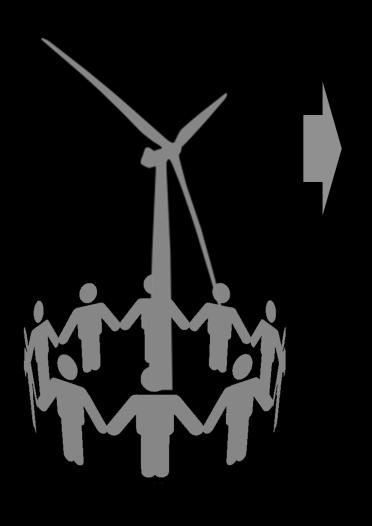
#### community investment



#### Germany renewable energy investment



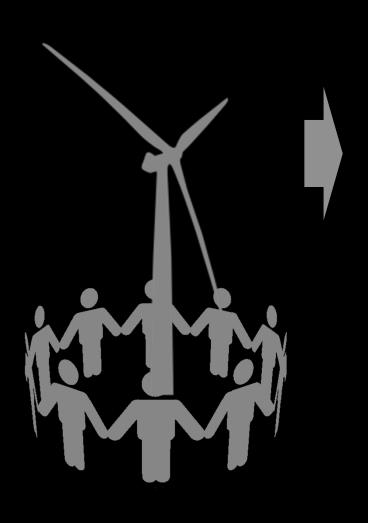
#### Community windfarms get



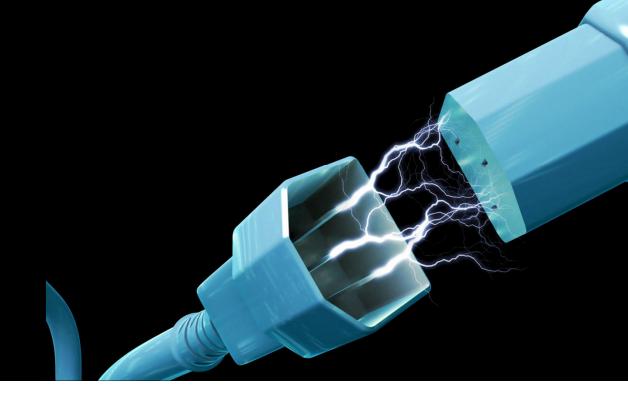
Higher Feed In Tariff



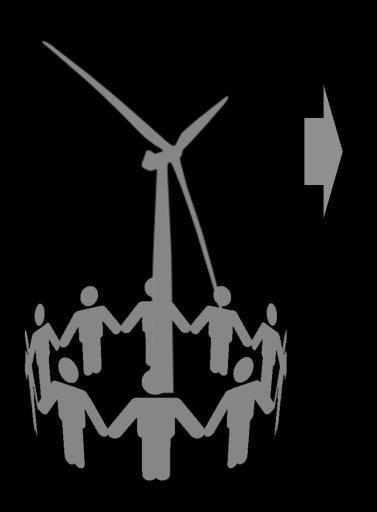
#### Community windfarms get



Higher Feed In Tariff
Guaranteed grid connection



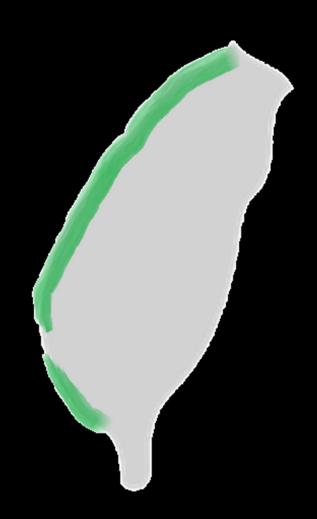
#### Community windfarms get

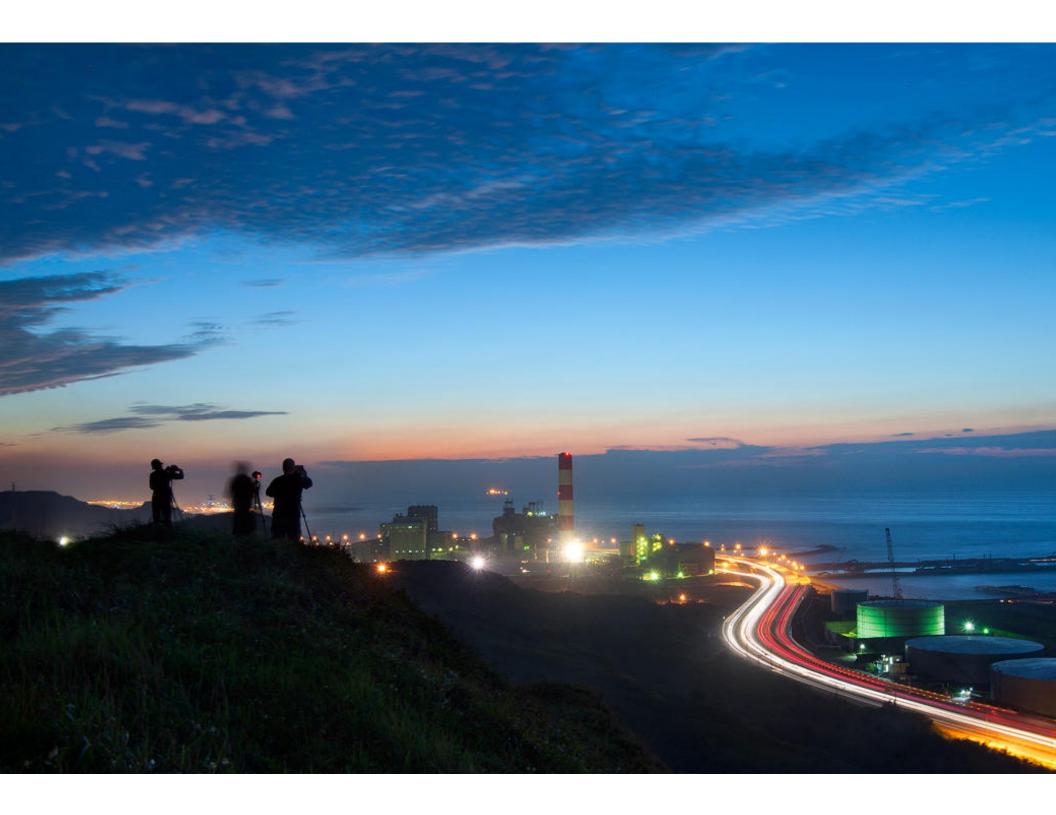


Higher Feed In Tariff
Guaranteed grid connection
Faster project approval



#### General EIA for renewables

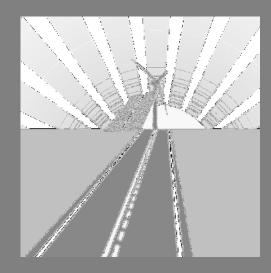








#### The highway to energy abundance



















#### 7 new & 12 upgraded factories

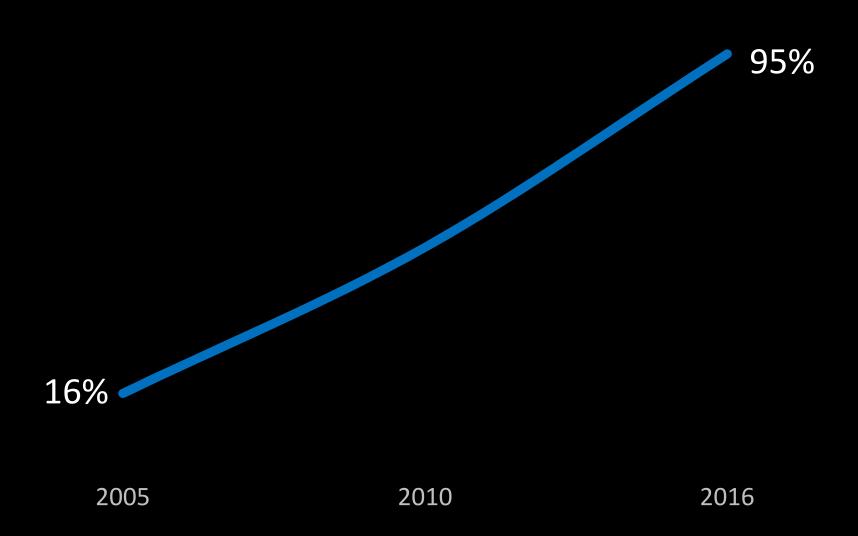


ENERCON Rotor Blades (1, 12, 13) – ENERCON Concrete Towers (5, 7, 9) – ENERCON Synchronous Generators (10) – SAERTEX Glass Fiber (11) – A. SILVA MATOS Steel Towers (3, 6, 15) – SIEMENS Transformers and Electrical Panels (8, 14) – JAYME DA COSTA Electrical Equipments (4)

#### A boost to the Portuguese Economy

| <b>Total Investment</b>  | € 1700 m                             |  |  |
|--------------------------|--------------------------------------|--|--|
| Total Added Value        | € 286 m per year                     |  |  |
| Job Creations            | <b>1</b> ,800 direct, 5,500 indirect |  |  |
| Balance of Payments      | Exports                              | > 60% of the production (€200m per year from 2010) |  |
|                          | Avoided gas imports                  | > € 100,000,0000 per year                          |  |
|                          | Avoided purchase of CO2 certificates | € 24 m per year<br>(1 MtCO <sub>2</sub> per year)  |  |
| <b>Local Development</b> | Local taxes                          | € 5 m per year                                     |  |
|                          | Land rents                           | € 3,4 m per year                                   |  |

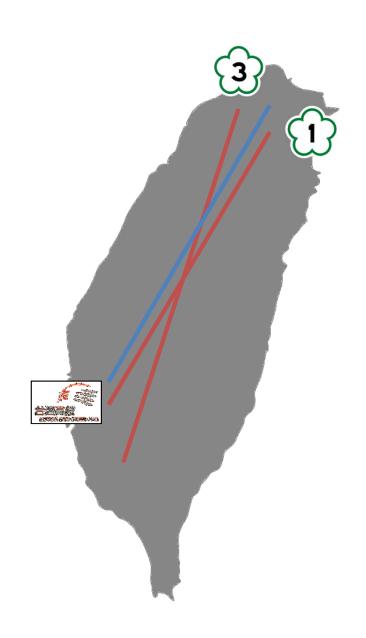
#### Renewable content of electricity generated Portugal



### Portugal 100% powered by renewable energy for 4 days straight



#### "Highways" drove Taiwan's economy



If we want a green economy...



#### ...It's time to build a green "highway"

