

# 'POWER TO THE PEOPLE'

# Solar PV and Battery Storage, EV Charging – Smart Building Controls

## **PAT SMITH**

B. Ag. Sc., C. Dip. A.F, C. Dir.

MD of Local Power Ltd 01 8250263 086 2613374 Info @localpower.ie



## **OPPORTUNITIES!**

- Large scale solar PV and wind- highly speculative but large returns possible.
- Micro (up to 1MW) Solar PV & Battery for self consumption or EXPORT !!
- Battery storage to manage loads and to store cheaper generated energy
- RHI for biomass- up and running.
- Micro wind and hydro generation
- AD for Bio- methane production to help heat and transport targets
- AD for electricity production unlikely for on site use!!
- Digestate and slurry volume reduction technologies

REDUCE ENERGY THROUGH TECHNOLOGY HAS TO BE A 1<sup>ST</sup> STEP FOR BUSINESS







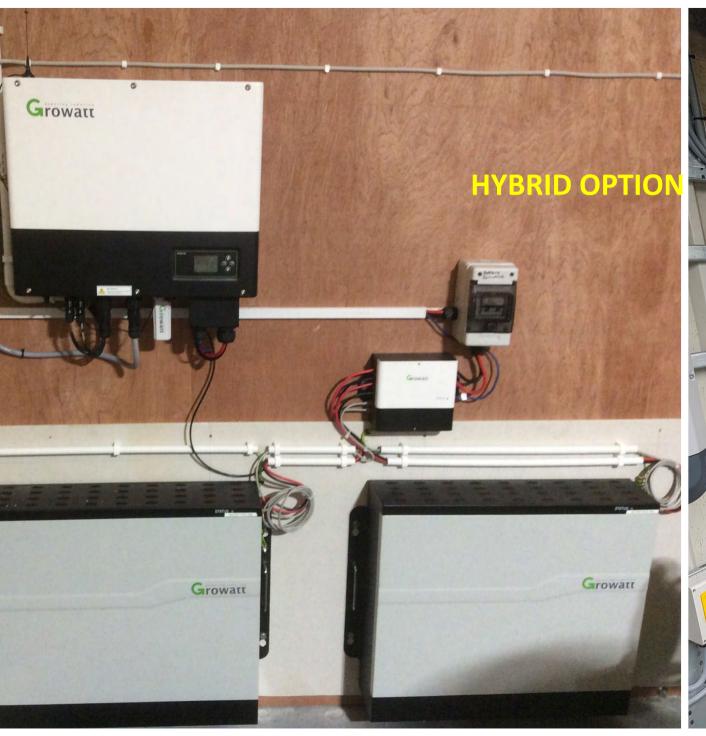




















### **Solarwatt PV Panels Comparisons**

	PREMIUM	MARKET STANDARD PLUS	MARKET STANDARD/TIER 1
PV panels	Solarwatt	Solarwatt	Varied
Manufacturer	Solarwatt (BMW family)	Solarwatt (BMW family)	Most Tier 1/glass foil panels
Where manufactured	Germany Dresden	Germany & Asia	Asia mainly
Model	Solarwatt glass- glass	ECO glass foil	Glass foil
Performance manufacturer warranty	30 yrs.	25 yrs.	25/30 yrs.
Product & material warranty	30 yrs.	12 yrs.	10/12yrs. generally
Warranty cover	Materials and labour	Materials and labour	Materials only
Warranty exclusions (buyer beware)	Limited exclusions	Limited exclusions	Check- often several exclusions
Max. linear degradation warranty/yr.	0.345%/ yr.	0.7%/yr.	0.5/0.7%/yr.
Panel wattage	310-320w	300-315w	280-335w
Output guarantee after 25 years	92%	85%	See data sheets
Output guarantee after 30 years	87%	None	None
5 year all-risks insurance cover	Yes	Yes	No
Self-clean glass	Yes	Yes	Generally but varies
Resistant to ammonia/salt erosion	Yes	limitations- warranties clear	Check- Warranties may be void
Resistant to protracted harsh environments	Yes	limitations -warranties clear	Check- Warranties may be void
Robustness	Strong and robust	Panels easily damaged	Panels easily damaged
Video comparison	www.smartsolar.ie	Transparent warranties	Read warranties carefully
Inverter	Fronius	Fronius	Asian manufactured generally
Manufactured	Austria	Austria	Asia
Warranty	7 years (can be extended up to 20 yrs)	Same	Check- 5 years generally
	-		



## SOLAR PV - COSTINGS- GRANTS!

- Domestic grant of up to 3,000 euro
- New TAMS for dairy/drystock/tillage 40-60% some restrictions workable. TAMS for pigs and poultry attractive and works.
   Horticulture 40% grant available
- BEC /EXEED up 30/50% grants
- TAX- 100% accelerated capital allowances year one + vat
   REFUNDABLE for businesses and farms
- Paybacks 3-6years depends on grant, electricity costs and whetlesolutions solar trader/company.



## he Future of Mobility Is Electric- CHARGEPOINT





80% of EV charging will take place in the home or work place in the future

Chargepoint 'provides Tomorrows solution for car charging Today '

# Value Proposition

### Reduce Expenses and Generate Direct & Indirect Income

#### Home



## IN GREATEF NTROL & VISIBILIT

rack usage and xpense harge during oeak hour

chieve sustainability oal

#### **Fleet**



## LOWER COST OF TRANSPORTATION

- + Meet government mandates and regulations
- + Reduce operating expenses with lower fueling and maintenance costs
- + Achieve sustainability goals
- + Proactively manage expenses
- Manage power in a gridfriendly way

#### Workplace



## ATTRACT & RETAIN TALENT

- + Increase employee satisfaction
- + Improve productivity
- + Achieve sustainability goals
- + Provide pricing controls to support your business goals

#### Multi-Family Homes



## Commercial Property



## ATTRACT & RETAIN RESIDENTS & TENANTS

- Increase average rent and property value
- + Provide valued amenity
- Meet emerging state and city regulations
- + Achieve sustainability goals

### **Parking**



### ATTRACT NEW CUSTOMERS

- + Drive revenue
- + Provide differentiating amenity

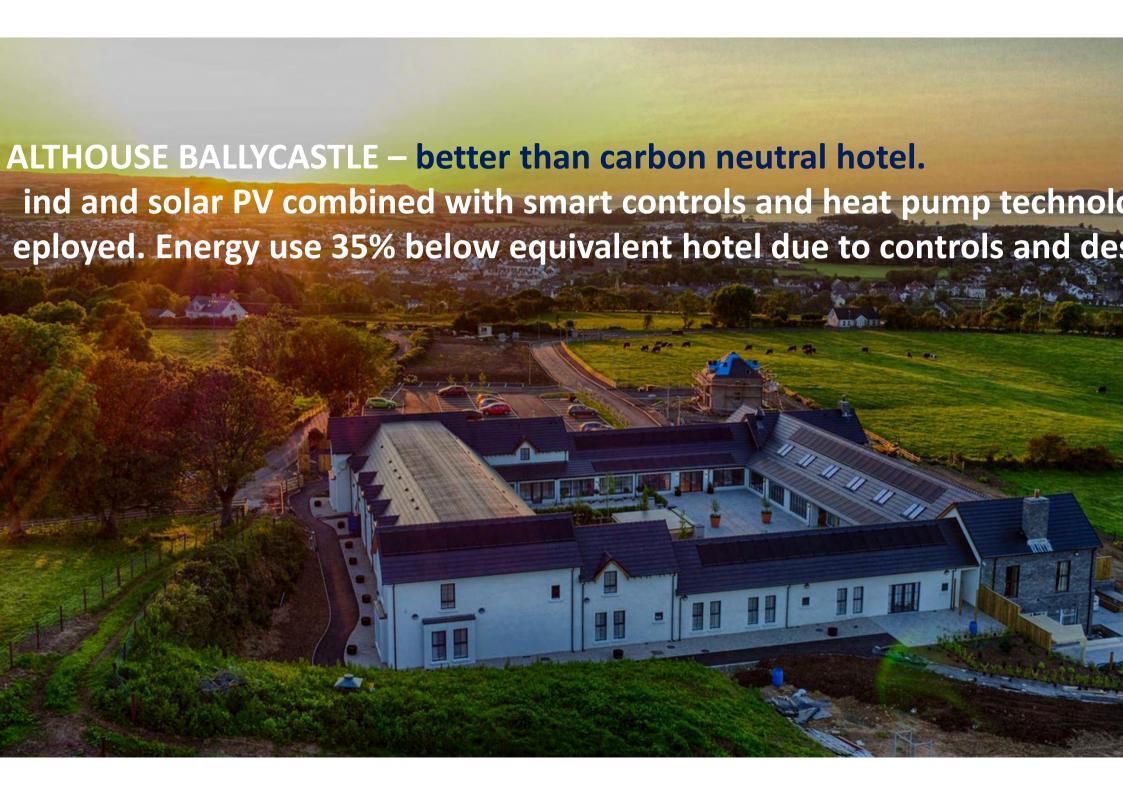
### Retail & Hospitali



#### **INCREASE SALES**

- Attract new and rep customers
- + Increase shopping
- + Boost customer satisfaction
- + Achieve sustainabi goals
- + Integrate with loyal programs







## **LOCAL POWER Ltd delivers:**

- →→ Proposal and quote for 3 different technology options with PREMIUM option providing 30 year product and 30 year performance warranties
- →→ Financial analysis on costs & paybacks based on variables for farm such as electricity prices, location etc.
- → → Generation report for the farm with 5 year insurance cover guarantees
- →→ Funding option borrowing secured against asset and repayments from savings
  - → Full install and commissioning by a team who know what they are at with professional after care support.



# THANK YOU

## **PAT SMITH**

B. Ag. Sc., C. Dip. A.F, C. Dir.

info@localpower.ie -086 2613374