

## amarenco

Ireland's Solar Energy Future Conference

29th January 2016



Cork

**Dublin** 

London

Nice

Gaillac

## **Contents**

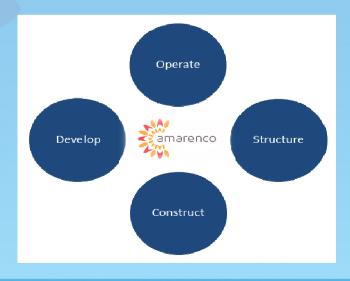


- Amarenco Background
- Global Solar Market and Outlook
- Meeting Our Renewables Targets
- Energy White Paper
- Connection Policy
- Amarenco in Ireland
- Announcement

# Amarenco's Work - Varen Construction



# https://vimeo.com/120828223



### **Amarenco Value Chain**





#### Origination

- Organic growth through advanced stage project development and additionally through strategic acquisitions
- Sourcing and screening of opportunities to generate value through downstream capabilities
- Extensive experience working with local developers and structuring risk / reward solutions

#### Development

- Use proven approach to balance expenditure and risk appropriately
- Disciplined approach towards termination or suspension of projects to mitigate risk
- Understanding the requirements of equity investors and project financiers

#### Structuring

- Bridging the gap between the end of development and start of construction
- Cover all commercial, design, procurement, and negotiation activities
- Sourcing and structuring of bank project finance and institutional debt
- Managing transitions

#### Construction management

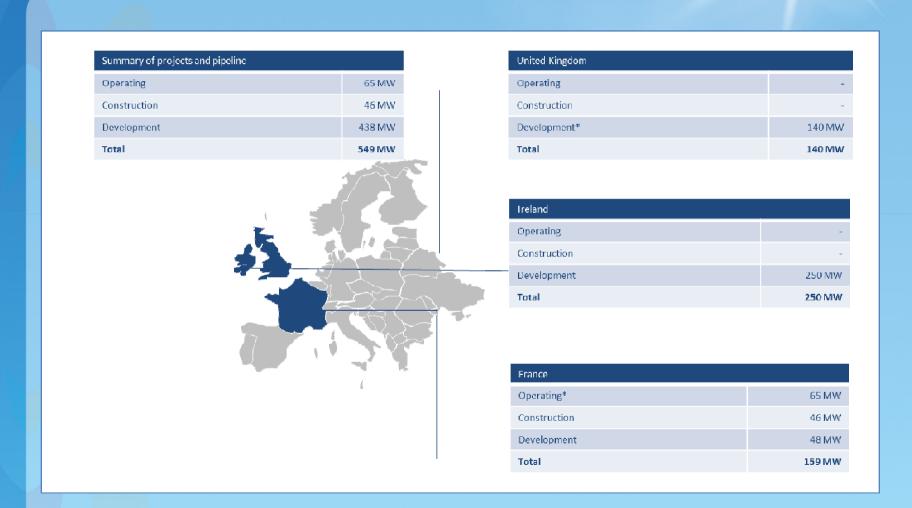
- Construction management capabilities to mitigate construction risk
- Strong relationship with manufacturers and service providers
- Value-add through pricing and procurement knowledge
- Experience in delivering projects to high-quality investors

### O&M and Asset management

- Managing both third party and Amarenco owned operating assets
- Providing performance reports, financial & corporate services

## **Amarenco Pipeline**





## **Amarenco Assets**



#### Skills and experience

- Operating and Asset management
- Investment optimization
- Risk management
- M&A and structuring
- Construction management
- Financing
- Project development
- Grid services
- Deep understanding of markets and projects

#### Developing the pipeline

- Creating market positions ability to identify strategic market opportunities and work with local developers
- Coverage across the project lifecycle track record of moving project through development

#### Executing optimal project structure

 Strong M&A capabilities—in-house capability to manage acquisition and disposal of projects

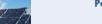
Project	MW	EV (€mn)	Equity (€ mn)	Levered IRR
Avignon	11.9	19.5	5.3	13.4%
Pissos	3.8	13.6	4.7	10.3%
Brassemonte	12.2	29.6	8.6	10.8%
Varen	8.1	11.3	2.4	15.2%
Perpignan	9.6	30	6.5	14.8%
Solar Watt 2	19.2	49.4	8.3	15.6%
Total	65	104.1	27.6	

#### Delivering projects - Case studies



CPG, Avignon

Project Details: 11.57 MWp project Location: Estezargues, near Avignon Connection date: August 2013 Expected production: 1,462 MWh



Perpignan

Project Details: 9.6MWp project Location: Toreilles, close to Perpignan Connection: October 2014 Expected production: 1,422 MWh

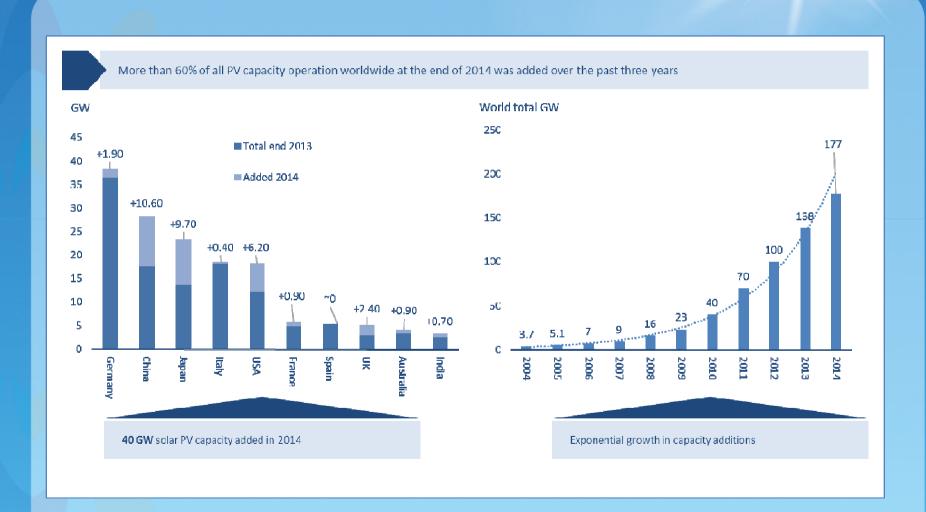
Varen



Project Details: 8.1 MWp project Location: 60km north of Toulouse Connection date: February 2015 Expected production: 1,326 MWh

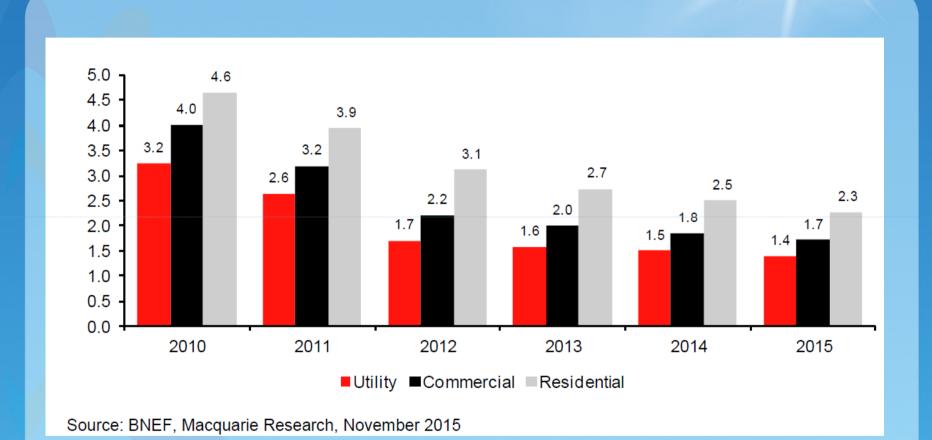
## **Global Solar Market**





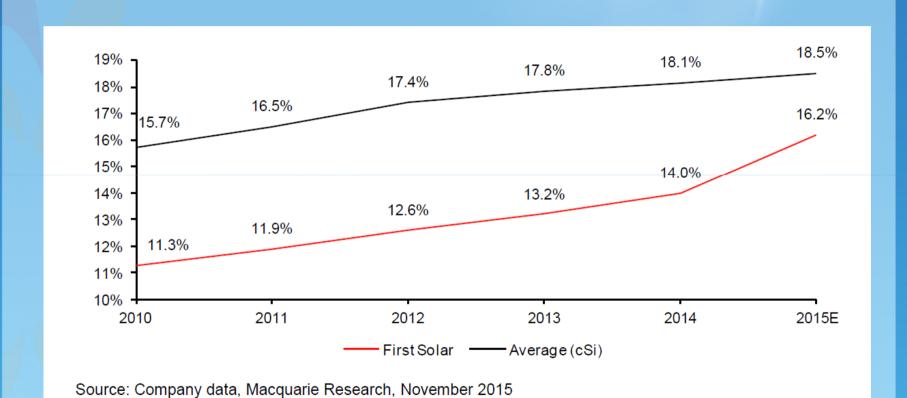
## Solar System PV Cost \$/W





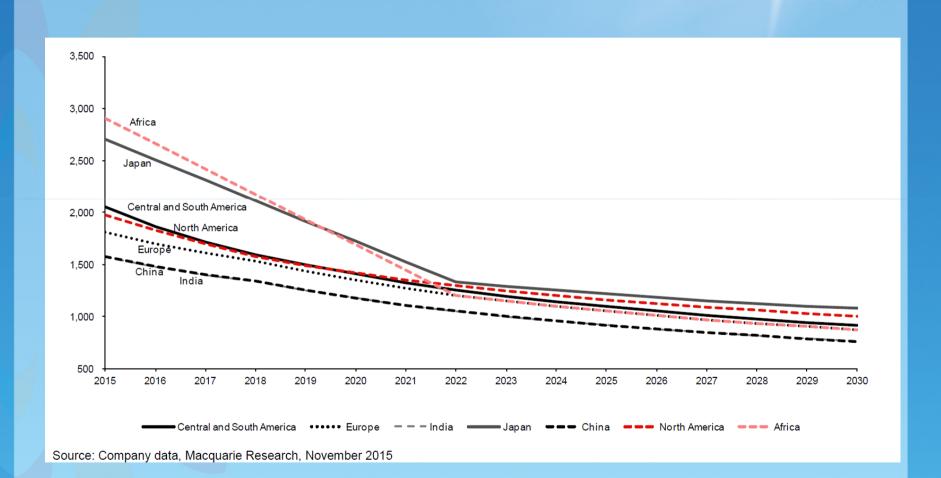
## **Solar PV Efficiency Map**





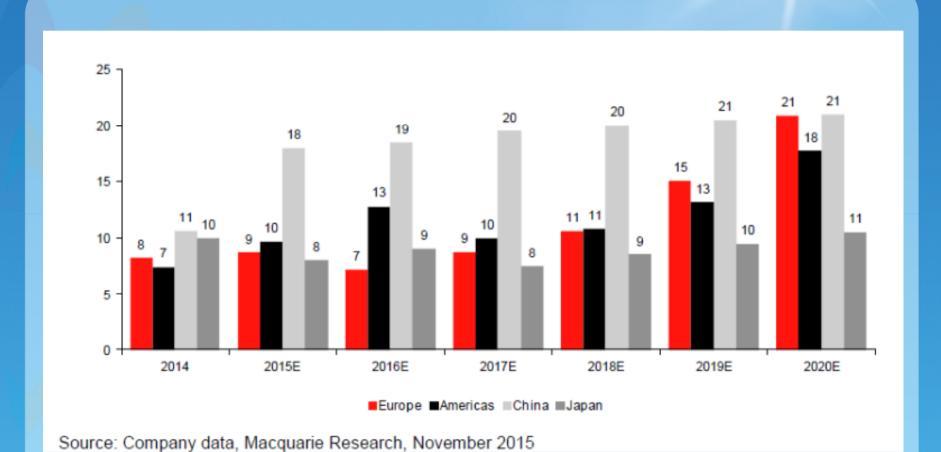
## Solar System PV Cost \$/W





## **Global Solar Outlook**





### **Conclusions**



- Solar PV is now the No. 1 provider of new electricity globally;
- Costs will continue to fall;
- European market is not over;
- Irish market has not even begun!!
- It is at grid parity in some markets;
- It will reach grid parity and better in most markets;
- It is a real disruptor;
- Self consumption will boom worldwide;
- We are at the start of a distributed generation revolution a new paradigm – an opportunity of headache for ESB!

## **Meeting Irish Renewable Targets**



- After 25 years of wind power, we are half way to our 2020 targets;
- We have four more years to fill the gap;
- Wind starts and completions have declined;
- Valuations Office have trebled rates;
- Irish renewable cost is fourth lowest in EU;
- PSO cost just over €85m less than "Peat the Polluter"
- Fines are imminent;

... Solar PV can help avoid the Fines! ...

## **White Paper**



- Too late!
- Non-committal;
- Solar will be considered for RES-E in 2016;
- Solar
  - Increases security;
  - Contributes to targets (2020 and beyond);
  - Supports economic growth and jobs;
  - Quick deployment
- " It is not Wind"
- Community Schemes are welcome

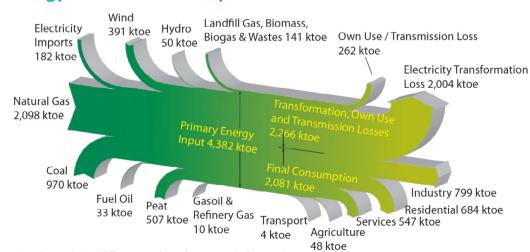
### **Solar Resource in Ireland**

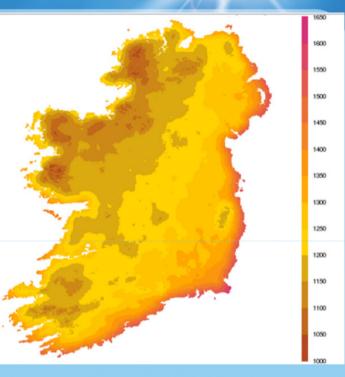


- 850-1050 kWh/kWp
- Similar to Germany/UK
- Germany 35GW installed
- UK 8GW installed
- Currently no Solar installation in Ireland

#### Time to start!

### Energy Flow – Electricity Generation 2013





## **Connection Policy**



- Consultation paper issue by CER;
- Proposes scrapping/revision of current arrangements;
- Current arrangements provided signals for development;
- Changing horses mid-stream not acceptable!!

### **Amarenco in Ireland**



Partnered with Macquarie Capital in Amarenco Solar Ireland Limited;

Focused on ground mounted and rooftop;

• One of the first to meet landowners – a lonely furrow!

Long term holder of assets – not in it for the turn!

Will partner people in this room

### **Announcement**

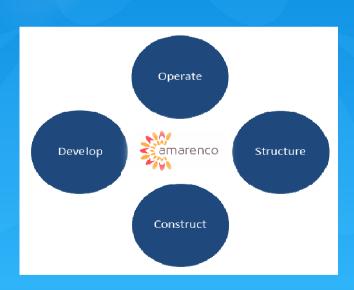


- Amarenco International HQ to be sited in Cork City
- 11 Anglesea Street
- 10 New Jobs





# amarenco



www.amarencosolar.com