



Developing Renewable Energy Projects

Development Manager

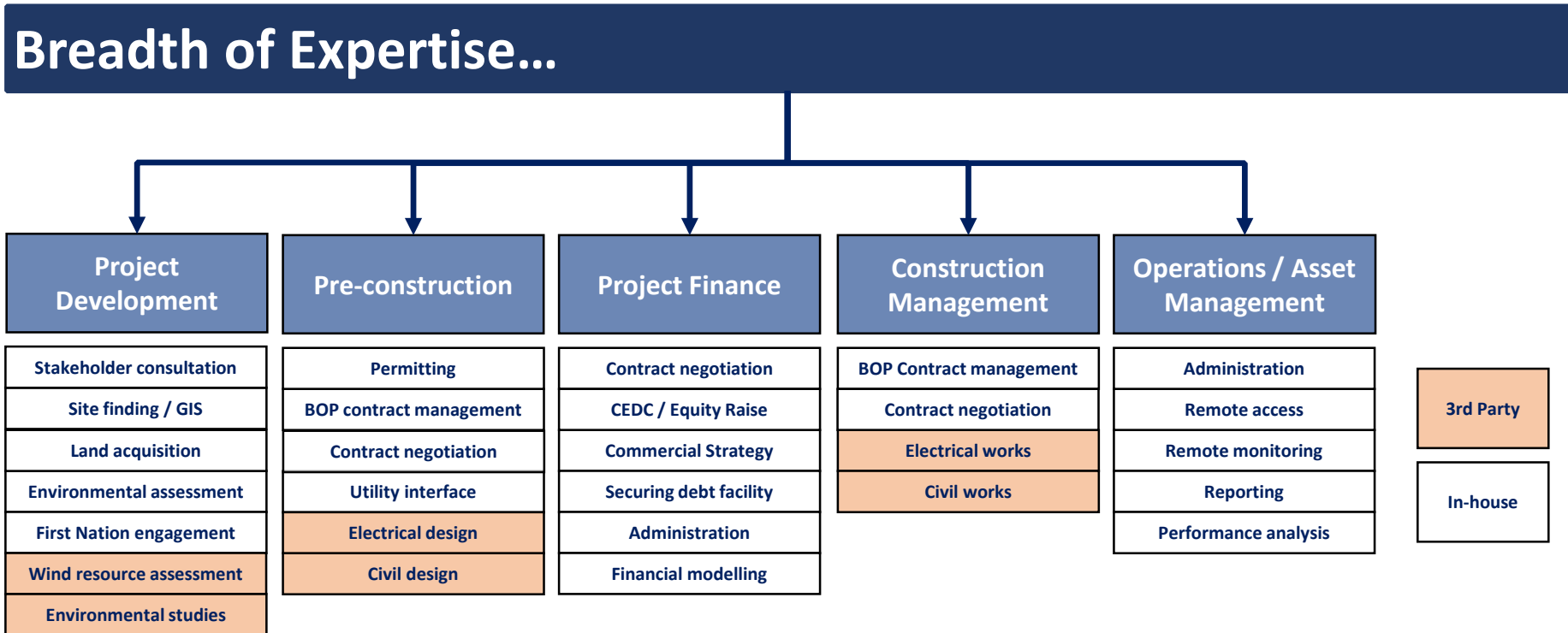
Grainne Blount



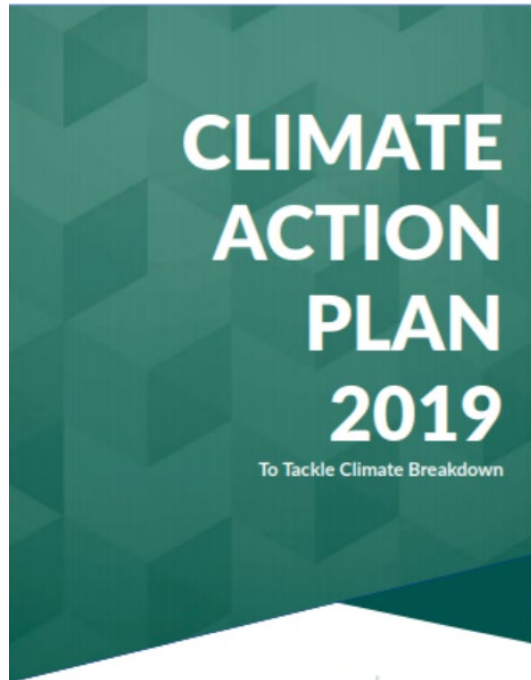
- Experienced Development Team to manage all phases of development
 - Solar
 - Wind
 - Battery
 - Hydro
- Focus on Developing projects in partnership with Communities
 - 4 Community Partnerships in Development (5MW)
 - 3 mid range projects <20 MW
 - 1 Large Scale Project ~100MW




Developing, constructing, owning, and operating wind, solar, and hydro projects – the full cycle





1. Energy Policy




 **Electricity**


70% Electricity generated from renewable sources by 2030

 **Phase-out Coal and Peat** electricity generation


 Homeowners to generate their own electricity and sell back to the grid under scheme for **micro-generation**

 **Transport**

Increase the number of EVs by 2030 to circa **1 million**

 **Build EV charging network** to stay ahead of demand

Expand our network of cycle paths and 'Park and Ride' facilities, helping ease congestion

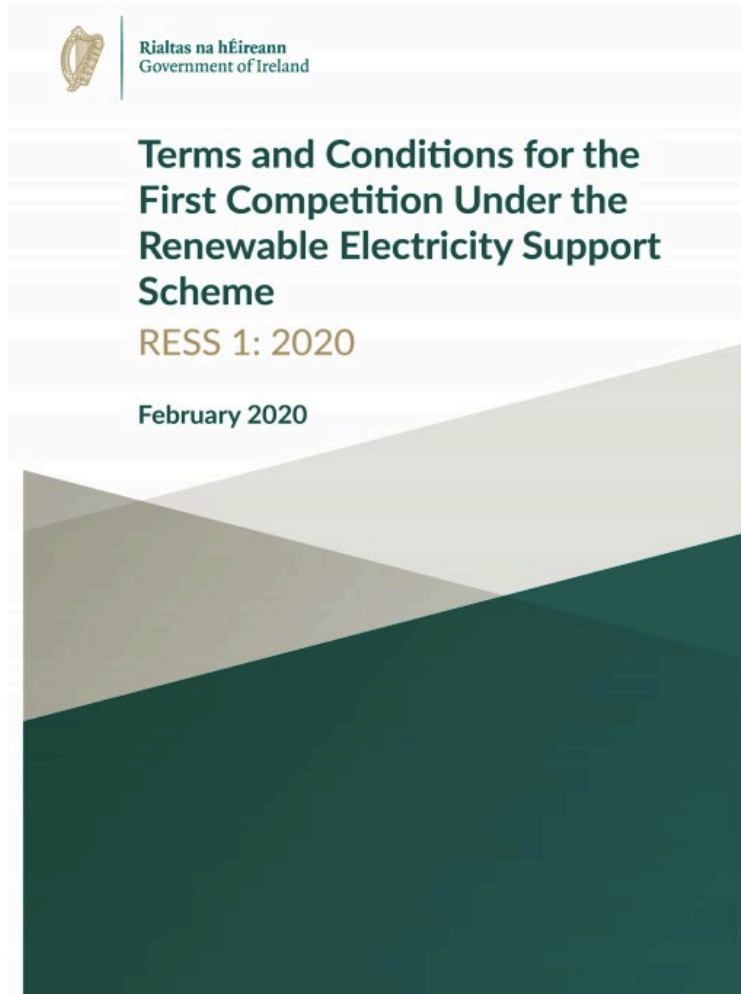
No diesel-only purchases for public buses in our cities from 1 July 2019 

 **Citizens and Communities**

Engage Communities across the country through:

- Establishing a **Community Outreach Programme**
- Driving action through the **National Dialogue on Climate Action**
- Increase the number of **Sustainable Energy Communities to 1,500**
- Develop **flagship low-carbon projects** in all Local Authorities 

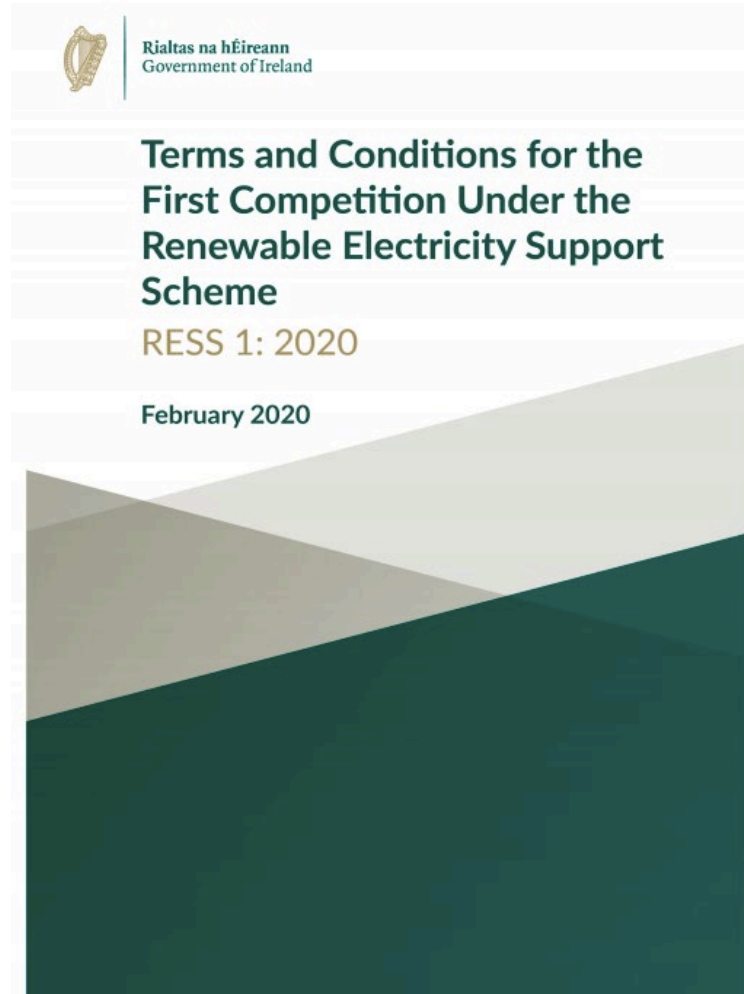
2. Renewable Energy Support Scheme (RESS)



- Auction Programme
- Competing against other projects for contracts
 - Most competitive projects will secure contracts
- 15 year fixed price contract for supply of electricity to the grid
- Secure government backed contract to build, reducing risk
- Technology agnostic

- New Community Category Introduced

2.1 RESS 1 Results



114 Projects applied to RESS 1 Auction to the most recent Auction (July 2020)

The winners include:

- 63 solar farms (comprising 796MW of capacity)
- 19 onshore wind farms (comprising 479MW of capacity)
- 7 Community Projects

	Community	Solar	All Projects
Average Price	104.15 €/MWh	72.92 €/MWh	74.08 €/MWh



Community Category



49%
Shareholder



Minimum 51%
Shareholding

Can be up to 100%



≤ 5MW
Renewable Energy Project



Community Benefit Fund
€2/MWh annually

Renewable Energy Technologies



Solar PV

- High competition in Solar



Small Scale Hydro

- Long development cycle & difficult to finance & planning



Biogas

- No Support Scheme in place for Bio-Gas



Offshore Wind Energy

- High Capital Requirements at development stage



Onshore Wind Energy

- Difficult planning but competitive in RESS

Market Analysis

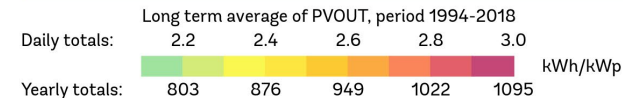
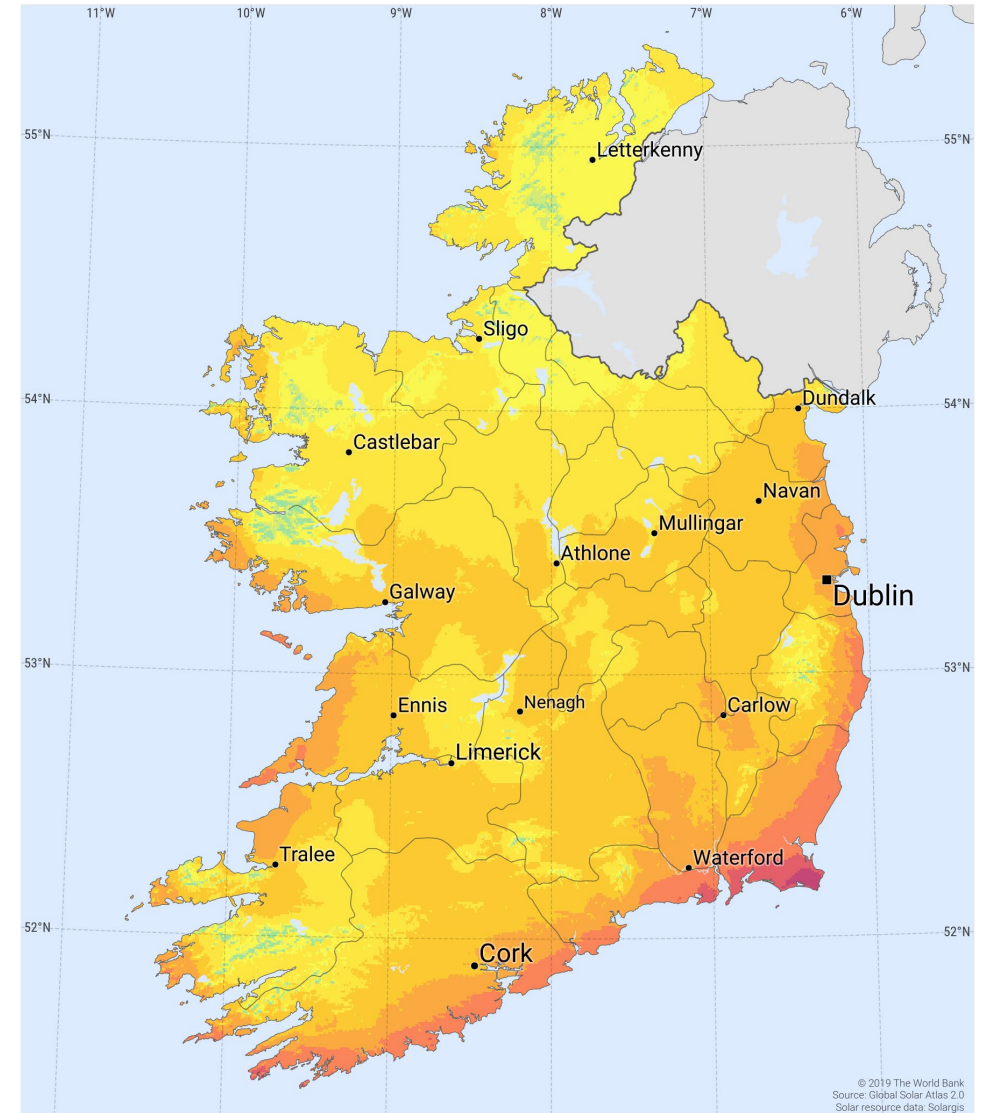
Complete Analysis

Technical Feasibility

Solar Energy

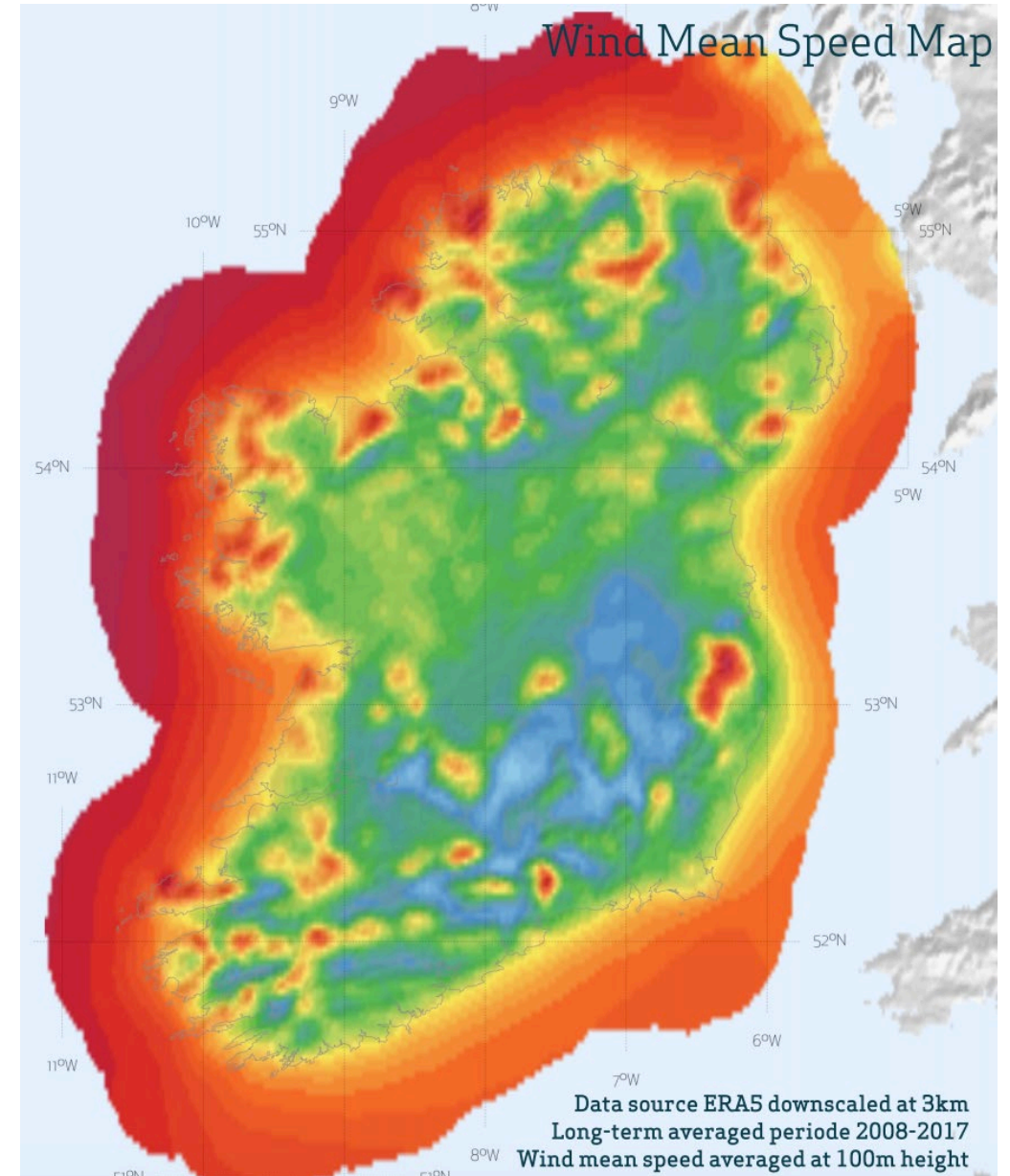
Key Points

- Solar Irradiance matters
- Circa 4.5 Acres per MW
- Proximity to Substation
- Grid Connection Route
- Planning: Glint and Glare, Visual impact
- 11-15% Capacity Factor



Wind Energy

- Higher capacity factor than Solar
- Wind Atlas Ireland
- Wind Planning Guidelines
 - 500m from houses
 - Shadow flicker
 - Visual Impact
 - Environmental and Ecological Considerations
- More competitive



3. Getting Involved- Landowners

1. Lease Land

Low Risk

Rental
Income for
25+ years

2. Develop Project

High
Development
Risk

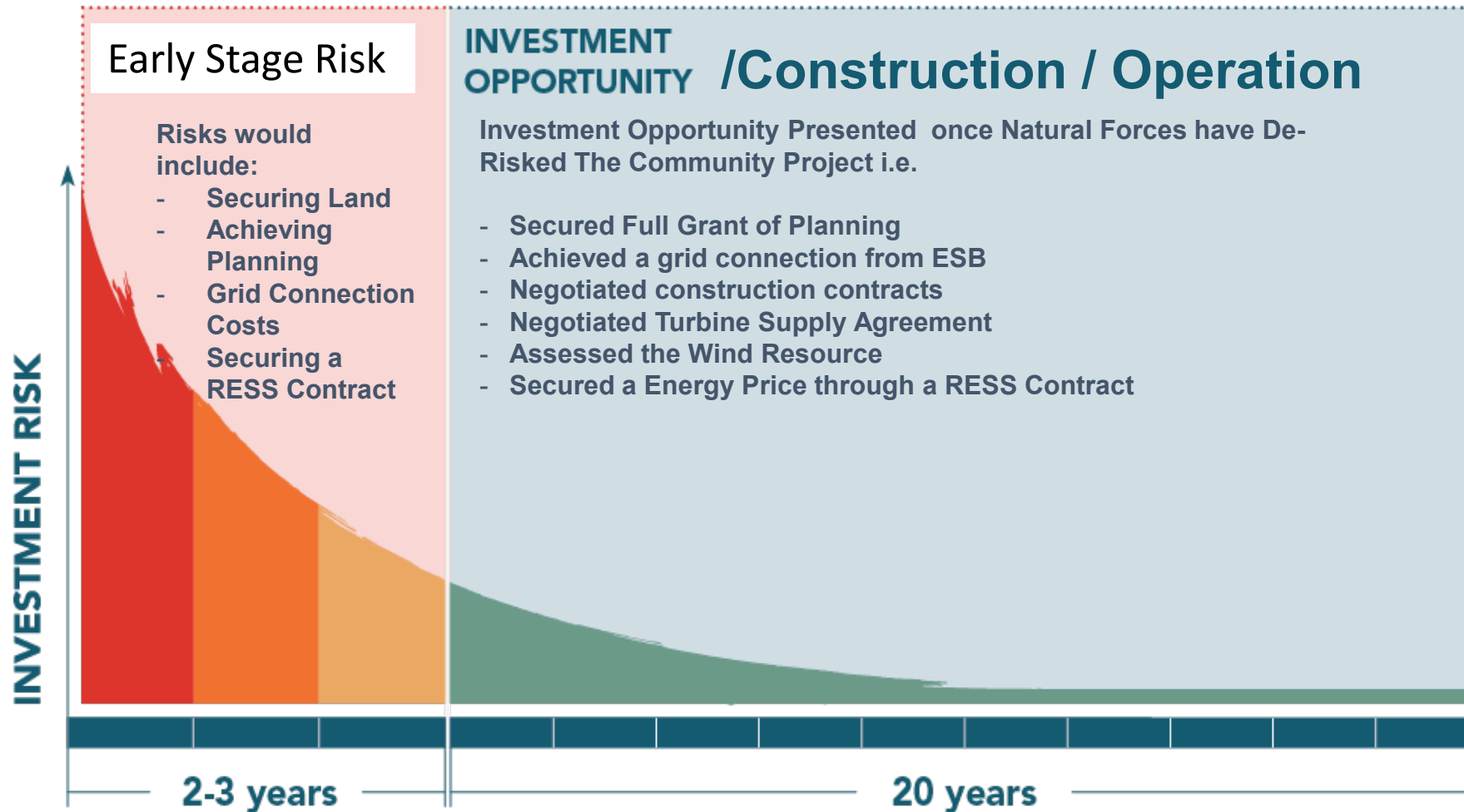
Steep
learning
curve

3. Community Development

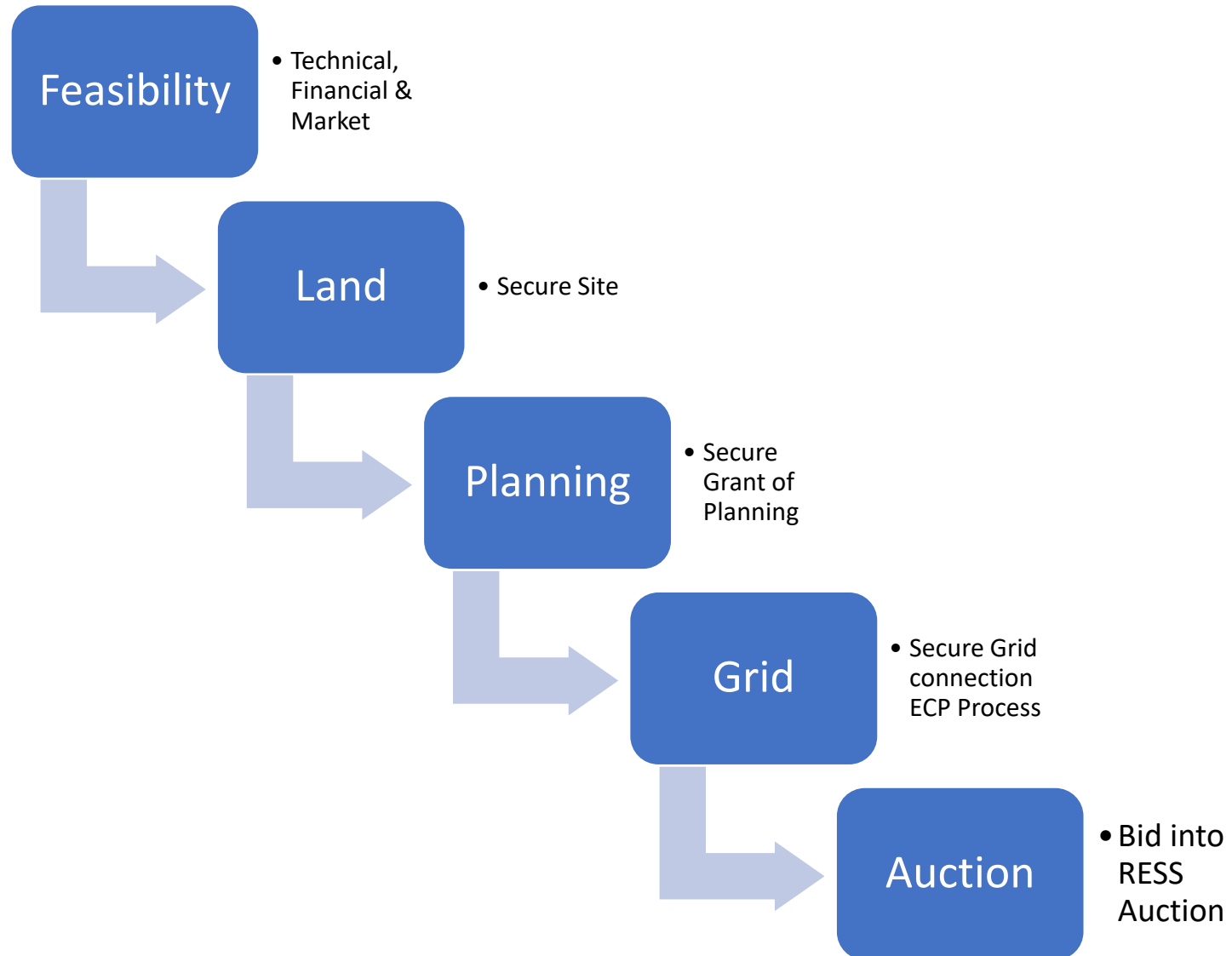
Lease Land

Invest in local
Project with
ROI

Development: Timeline, Costs & Risk



The Development Steps





Questions