



**PARTNERSHIPS
FOR RENEWABLES**

A CARBON TRUST ENTERPRISE

Renewable Asset Development - Introduction

Boxted Parish Council

14th July 2010



Commercial in Confidence

Agenda

- Introduction to PfR
 - Background
 - Drivers
 - Objectives
 - Public Sector Focus
- Corporate Structure and Funding
- Value Proposition
 - Worked Example
- Development Methodology
 - Commitment
 - Process and Timescales
 - Community consultation process
- The Site Selection Process for Wind Turbines

Introduction – Background

- PfR was established by the Carbon Trust in 2006 to address an underperforming market in renewable energy generation
- Public Sector land under-utilised for renewable energy generation
- Structural issues with Public Sector Bodies
 - Procurement
 - Reporting lines
 - Timeframe for decisions
- Majority of mainstream private sector developers reluctant to engage with Public Sector
- Initial funding received from Government to address the Public Sector renewable energy generation market failure

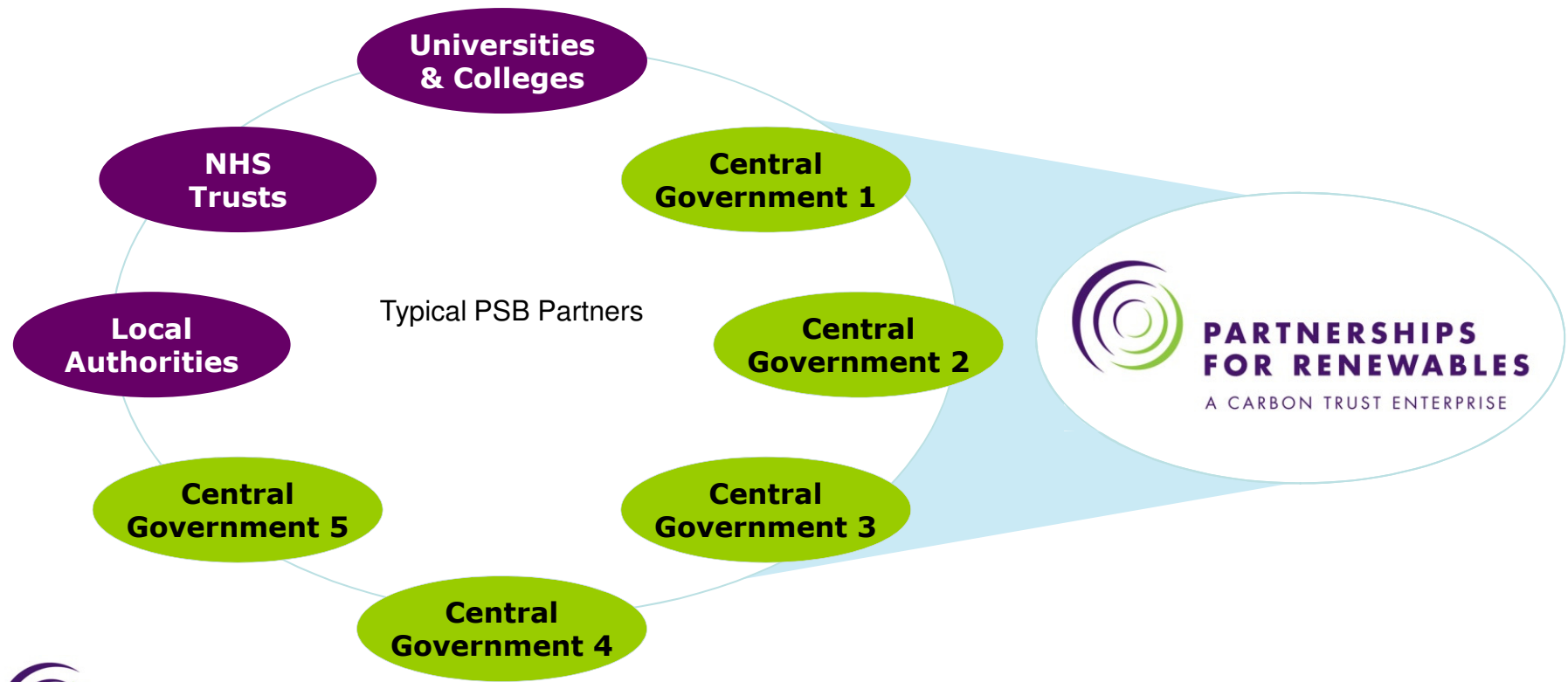
Introduction - PfR Drivers

- Support the Government's targets for renewable energy capacity; current targets unlikely to be met
 - 10% by 2010,
 - 15% by 2015,
 - 20% by 2020 (aspiration)
- } England & Wales
- Develop additional capacity
 - Focus on Public Sector Bodies (PSBs)
 - Technology neutral but must be commercial
 - Currently onshore wind (industrial scale) – 2MW or greater turbines
 - Investment from capital markets
 - Leveraging on initial Government investment

Introduction - PfR Objectives

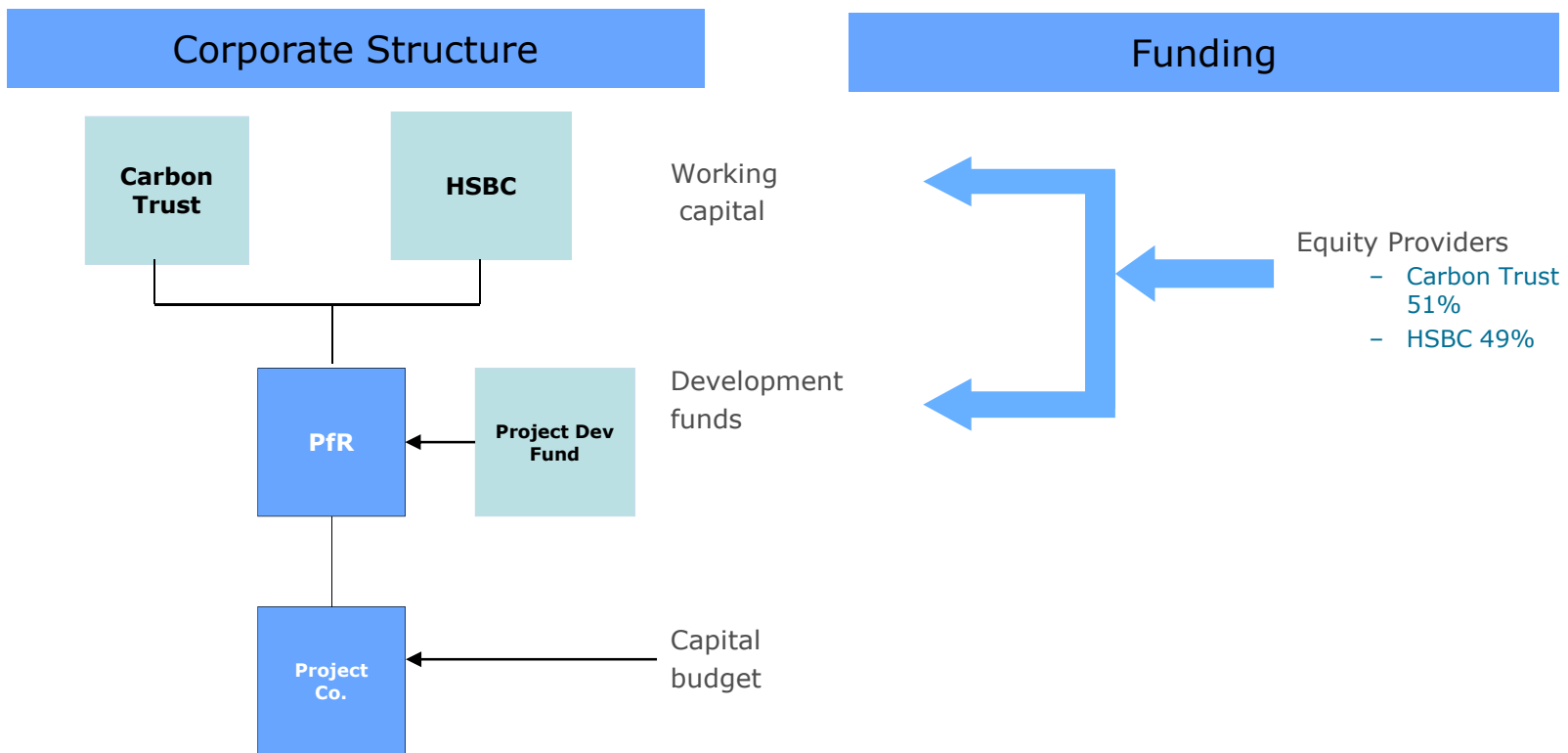
- Establish PfR as a major renewable energy company
- Identify and develop projects from conception to completion
- Own and operate the assets
- Initial target of 500MW of onshore wind
 - Installation of other renewable energy technologies when commercially viable

Introduction – Public Sector Focus



Corporate Structure and Funding

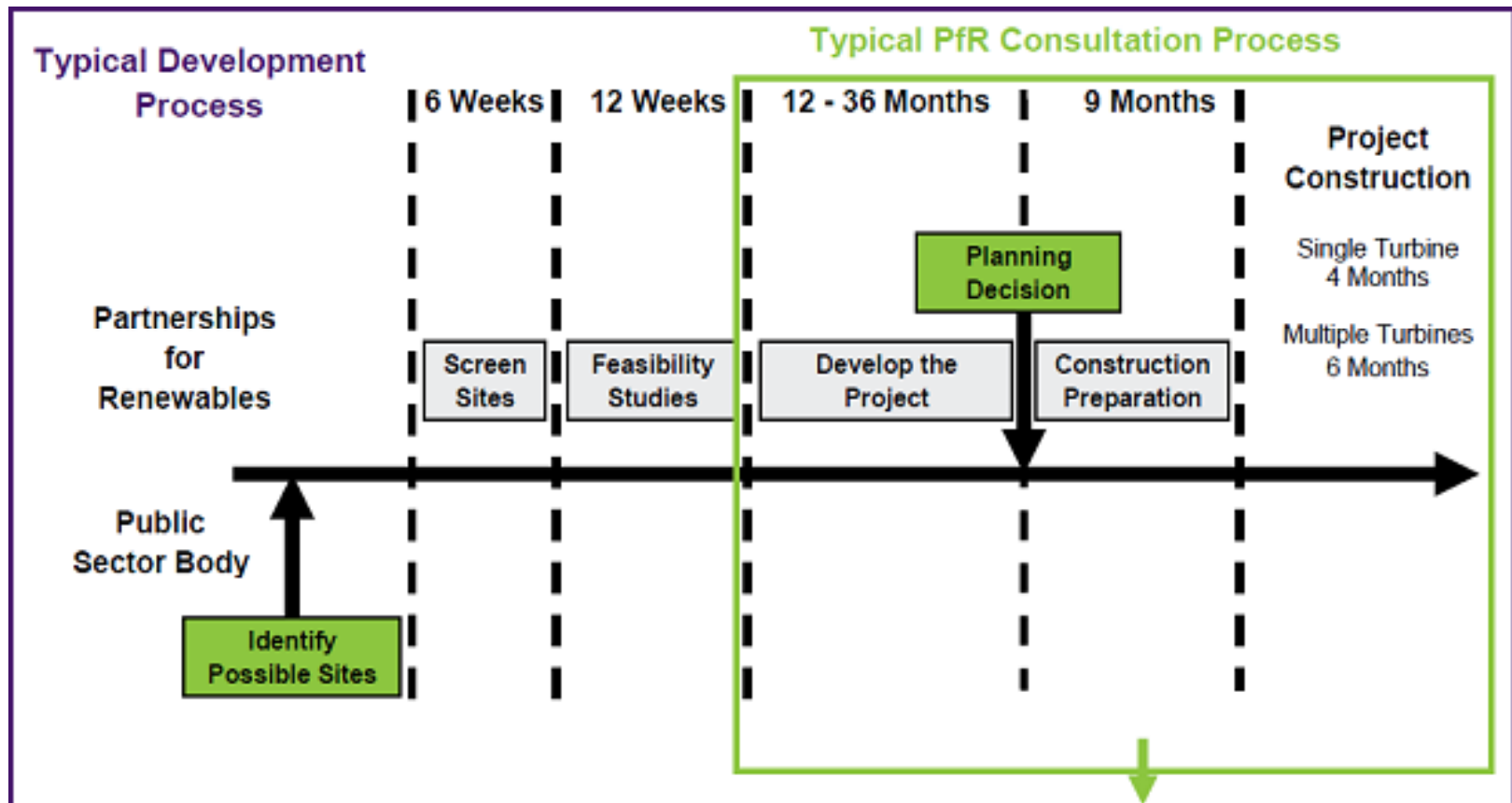
PfR will draw on a mixture of public and private finance



Value Proposition

- Supports sustainability and climate change objectives
- Source of additional income and potential for cost reductions
 - Revenue stream from under used land assets
 - Potentially lower electricity costs
 - Long term electricity supply contract at discount to market prices
- Low risk to PSB
 - All development, legal, construction and operating costs carried by PfR
 - Open book approach
 - Standardised commercial arrangements

Typical development programme



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Community Consultation and Engagement

- PfR is committed to early engagement and promoting an open and honest dialogue with the local community
- We will engage with local stakeholders and communities throughout every stage of the development process
- We offer an independently administered community benefit fund which reflects the size of the project once it is constructed
- The community is encouraged to get involved with our projects wherever possible (contributing to site design and environmental work, planning conditions and shaping public consultation)

Technical assessment

- Wind speed
- Grid connection
- Access
- Roads and foundations
- Defence radar
- Civil radar
- Noise
- Telecommunications
- Cultural heritage (archaeology)
- Landscape and visual
- Ecology
- Ornithology
- Hydrology
- Shadow flicker
- Public Interest

Installation of Meteorological (Met) Mast



Installation of Tracks & Hardstanding



Type I hardcore

Installation of Foundations



Assembly of Turbine & Blades

