



Community Renewable Energy Projects The Social Financer's View

**Patrick Minne
Northern Ireland Manager
Charity Bank**

- 1. Introduction**
- 2. Charity Bank and Hydro: Context**
- 3. Hydro Schemes' Sources of Finance**
- 4. Bank's Pre Project Risk Assumptions**
- 5. Borrowers Risks Actually Realised**
- 6. Conclusions**

1 Introduction



Charity Bank

- **Fully regulated, non-profit bank**
- **Lends ethical savers' money exclusively to social enterprises and charities for a fair rate of return**
- **Low default rate due to careful risk analysis in sector**
- **Idea today is to illuminate the bank's decision-making criteria for investing in micro-hydro schemes**



2 Charity Bank and Hydro: Context



- **A look at the bank's credit risk analysis of 11 hydro schemes it has dealt with 2009-2014 in Great Britain**
- **Schemes ranged from 44kw Archimedes Screw to 400kw Run of River projects, including Kaplan Turbine projects**
- **All data is aggregated and anonymised**
- **Comparison of risk 'assumed' by bank versus risks actually realised by our Hydro borrowers**
- **Bank's key issues are:**
 - **Evidenced Social Impact**
 - **Ability to service debt**

3 Hydro Schemes' Sources of Finance

	<i>Charity Bank Loan</i>	<i>Public Sector Loan</i>	<i>Community Member Loans</i>	<i>Public Sector Grant</i>	<i>Carbon Fund Grant</i>	<i>Feasibility/Dev. Phase Grant</i>	<i>Community Donations</i>	<i>Community Share Issue</i>
1	x					x		x
2	x			x				x
3	x					x		x
4	x				x			x
5	x			x				
6	x				x		x	
7	x							x
8	x	x						x
9	x		x		x	x		
10	x			x			x	x
11	x	x					x	

4 Bank's Pre Project Risk Assumptions

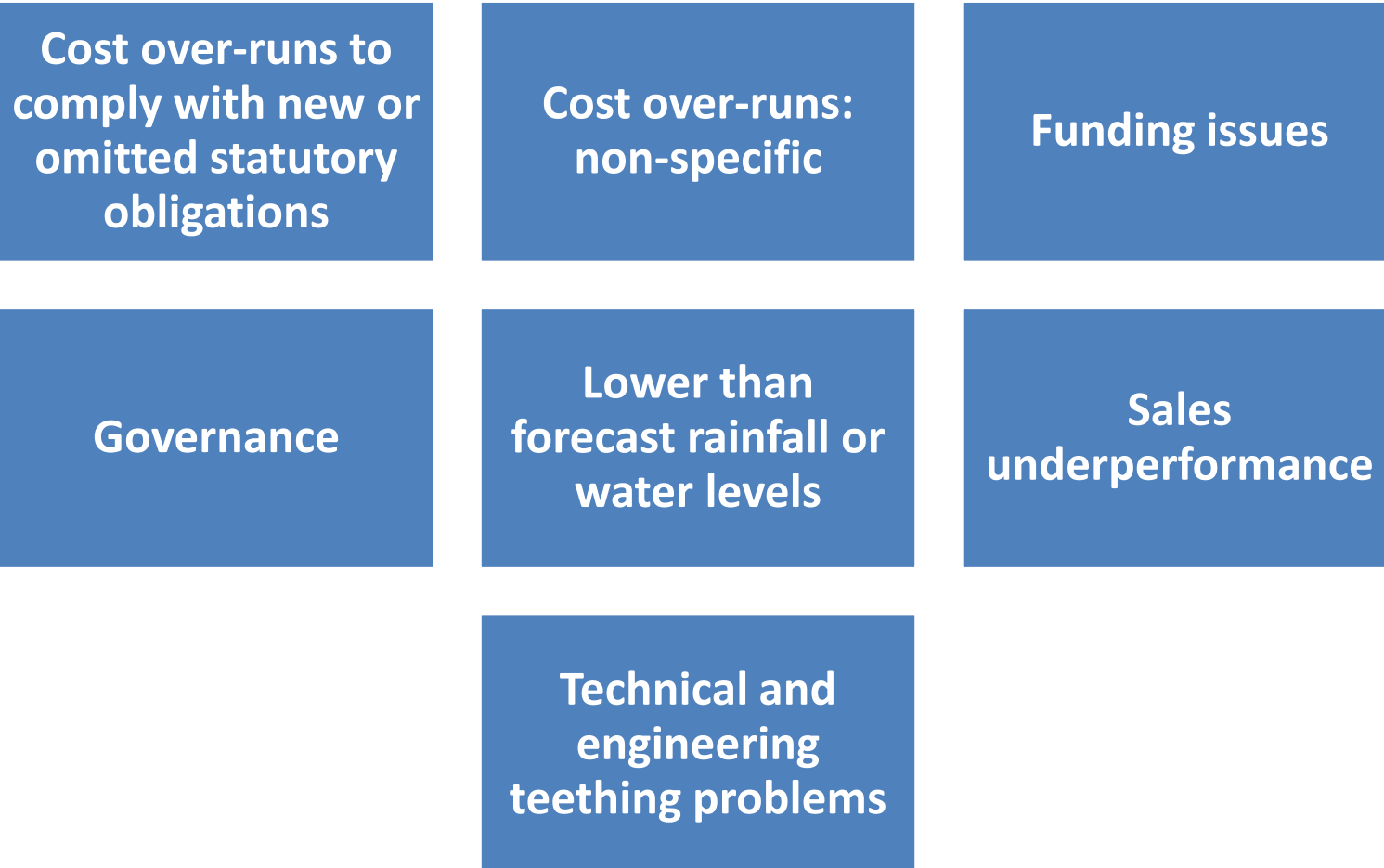


Influences on risk assumptions

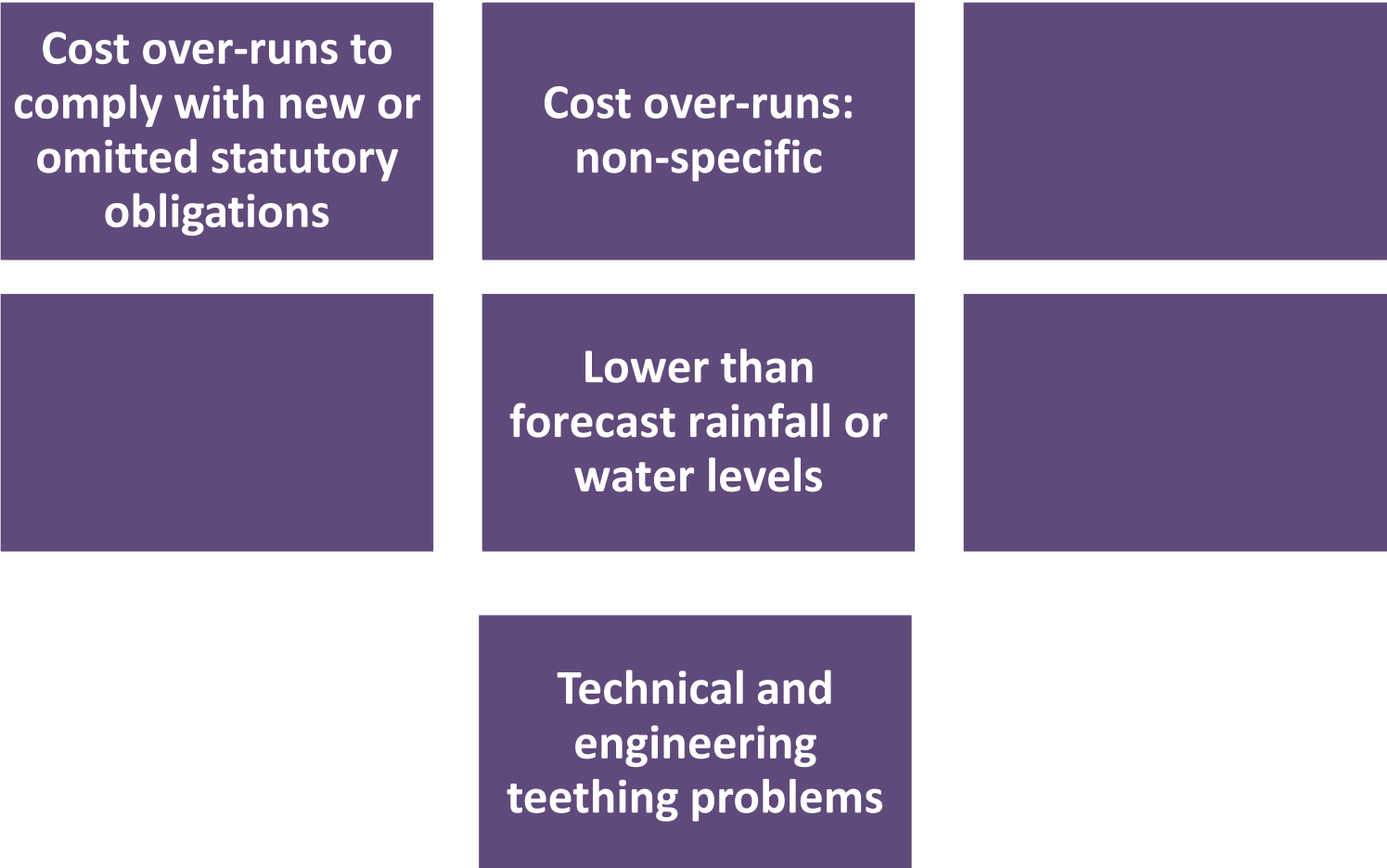
- **The 5 Cs**
- **Analysts focus on risks until the end of the loan term**
- **The risks identified by unconnected credit analysts on unconnected hydro schemes had a lot of commonality**



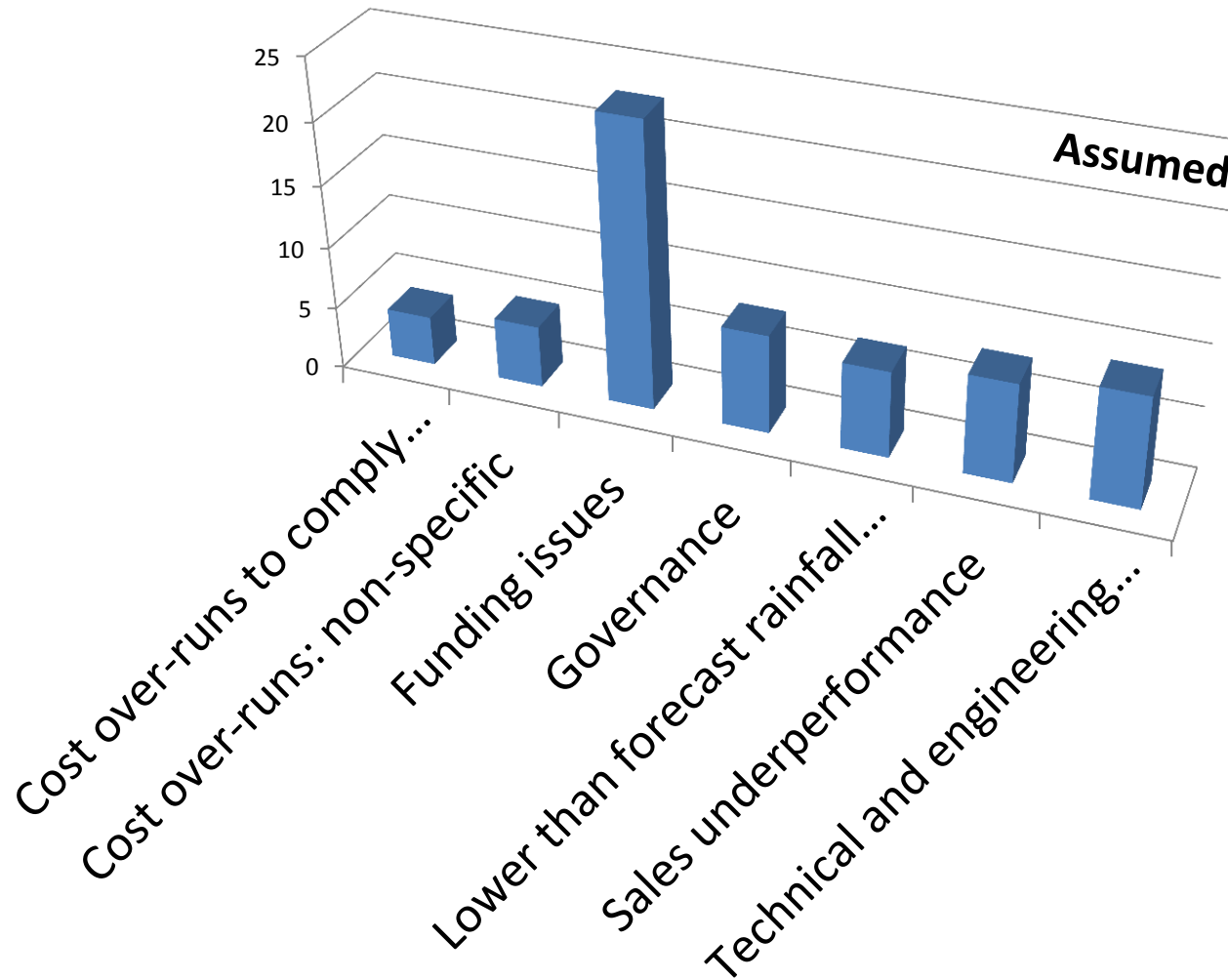
4 Bank's Pre Project Risk Assumptions



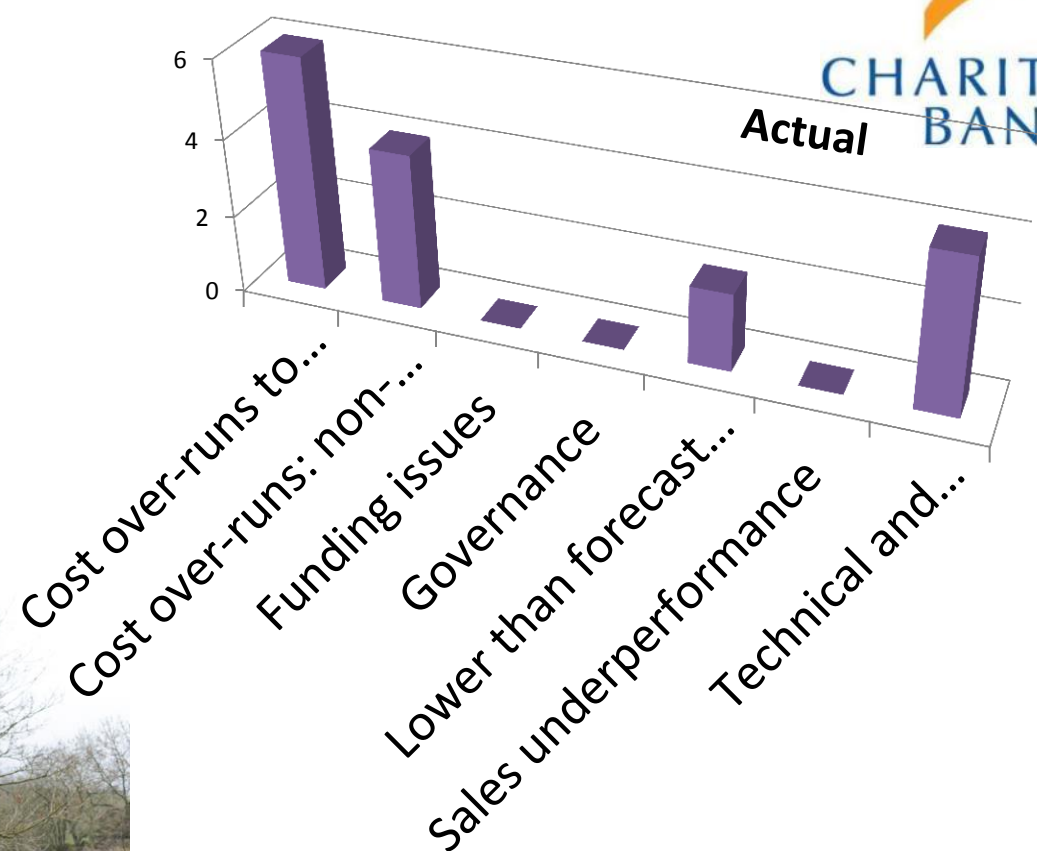
5 Borrowers' risks actually realised



5 Borrowers' risks actually realised



5 Borrowers' risks actually realised



a different bank for people who want a different world

6 Conclusions



- **Risks to sustainability for a hydro scheme are related to uniqueness of each scheme**
 - **Compliance with environmental requirements can be sorted quickly by good stakeholder management, with officialdom, and with locals – even anglers**
 - **Each scheme’s unique capacity and geology means there’s no one-size-fits-all fool-proof technology – each one needs a bedding in period – build in contingency to your budget for the unforeseen**
 - **Admit to yourself and your project team that the success depends on rainfall. Projects are consistently over-optimistic about the weather**
 - **Technical and engineering problems: pay special attention to who bears the risk of losses in any contract you sign**
- **The trick to getting investors to trust the scheme is not to show that you have all the answers, but that you at least have all the right questions**



 @PatrickMinne

Northern Ireland Manager

Charity Bank

Community House

Albert Street

Belfast BT12 4HQ

T: 0044 2890 244179

M: 00 44 7792 509003

E: pminne@charitybank.org

follow us on:

