

A large, faint, light blue graphic of a watermill wheel is positioned in the upper left and center of the slide. The wheel has several spokes radiating from a central hub to the outer rim. The text is overlaid on this graphic.

Case Study – Cotehele Mill

*Small scale micro-hydro
installation at historic
mill site*



- Existing mill in regular operation
- Good quality Salmonid river
- 7m of fall
- National Trust client, system to be separate to mill and easy to run
- Wet site
- Poor access



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- A large, faint graphic of a water wheel is centered in the background. The wheel has several curved blades and a central hub. The text is overlaid on the left side of the wheel. At the bottom of the slide, there is a blue wavy shape representing water, and the text 'ern Renewable Energy' is partially visible in a light blue font.
- *Design and license negotiation by WRE*
 - *National Trust had tight timescales and moderate budgets*
 - *Delays due to interaction with other works on site slowed down start date*
 - *Fixed price installation*
 - *WRE installed all intake works, powerhouse, screening, and all M&E*
 - *Commissioning*



- *Powerhouse Located upstream of existing mill*
- *Fish screening agreed at forebay with fish bywash*
- *Very wet site with hard bedrock*





- 135 l/s crossflow turbine
- WRE automatic screen
- Efficient flat belt drive
- Piped fish bywash and integrated flood spillway
- Set out to WRE **HEADstart** layout
- 5.5kW G83 grid connection

- *Completed on budget*
- *Quiet operation*
- *Spacious powerhouse*
- *Re-use of existing historic system brings mill 'back to life'*

