

Peter Wiggins

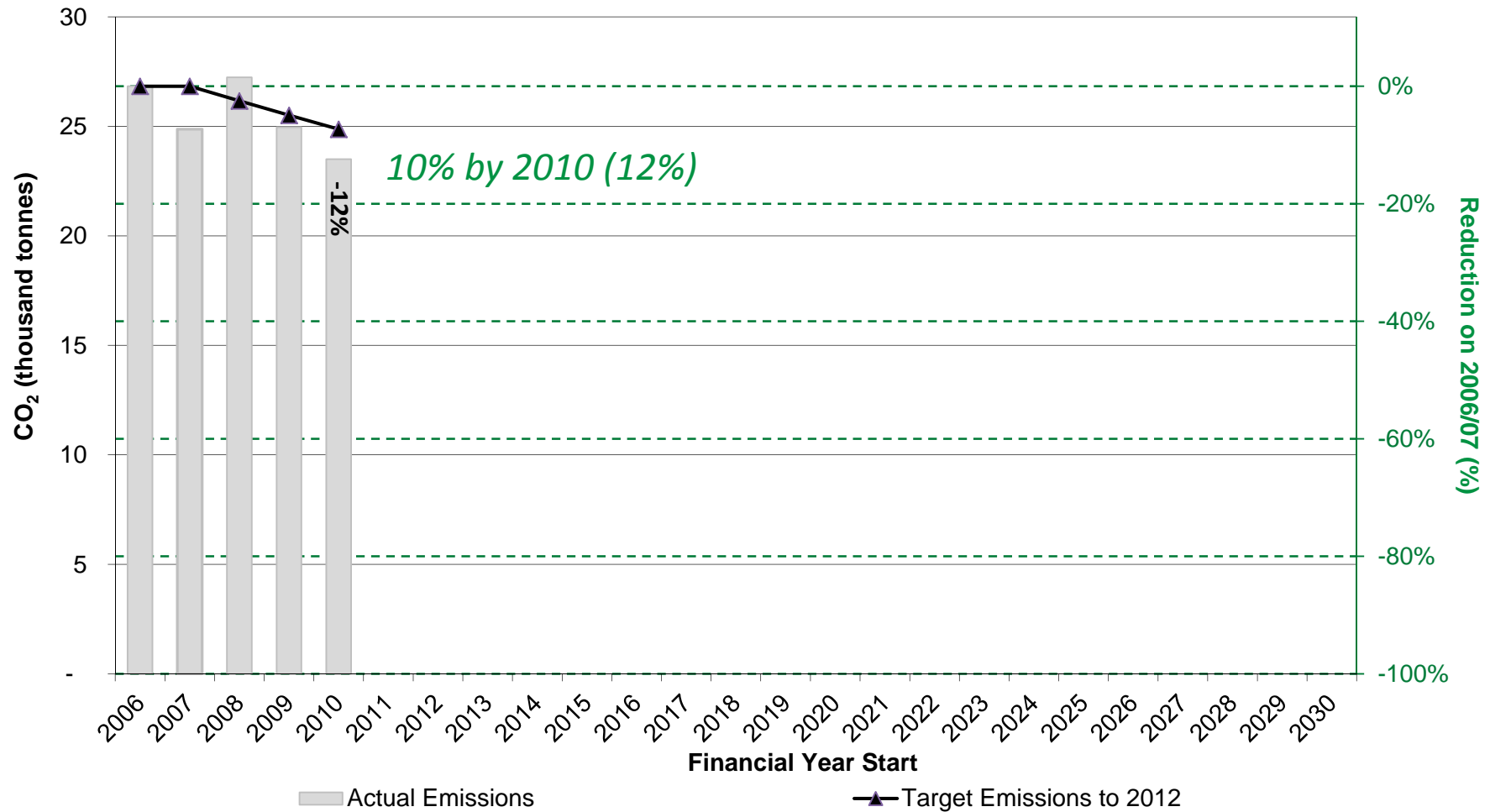
Outcome Manager – Community Infrastructure
Gloucestershire County Council

Reducing our emissions - early beginnings

- 2005 Carbon Management Programme (CMP) with The Carbon Trust
- Joined the “10:10” initiative
 - 10% reduction on baseline (2006) by 2010
- £1m Salix Finance Recycling Fund (50% GCC)
- 2008 Climate Change Strategy & Action Plan
 - Nottingham Declaration on Climate Change



Reducing our emissions - early beginnings

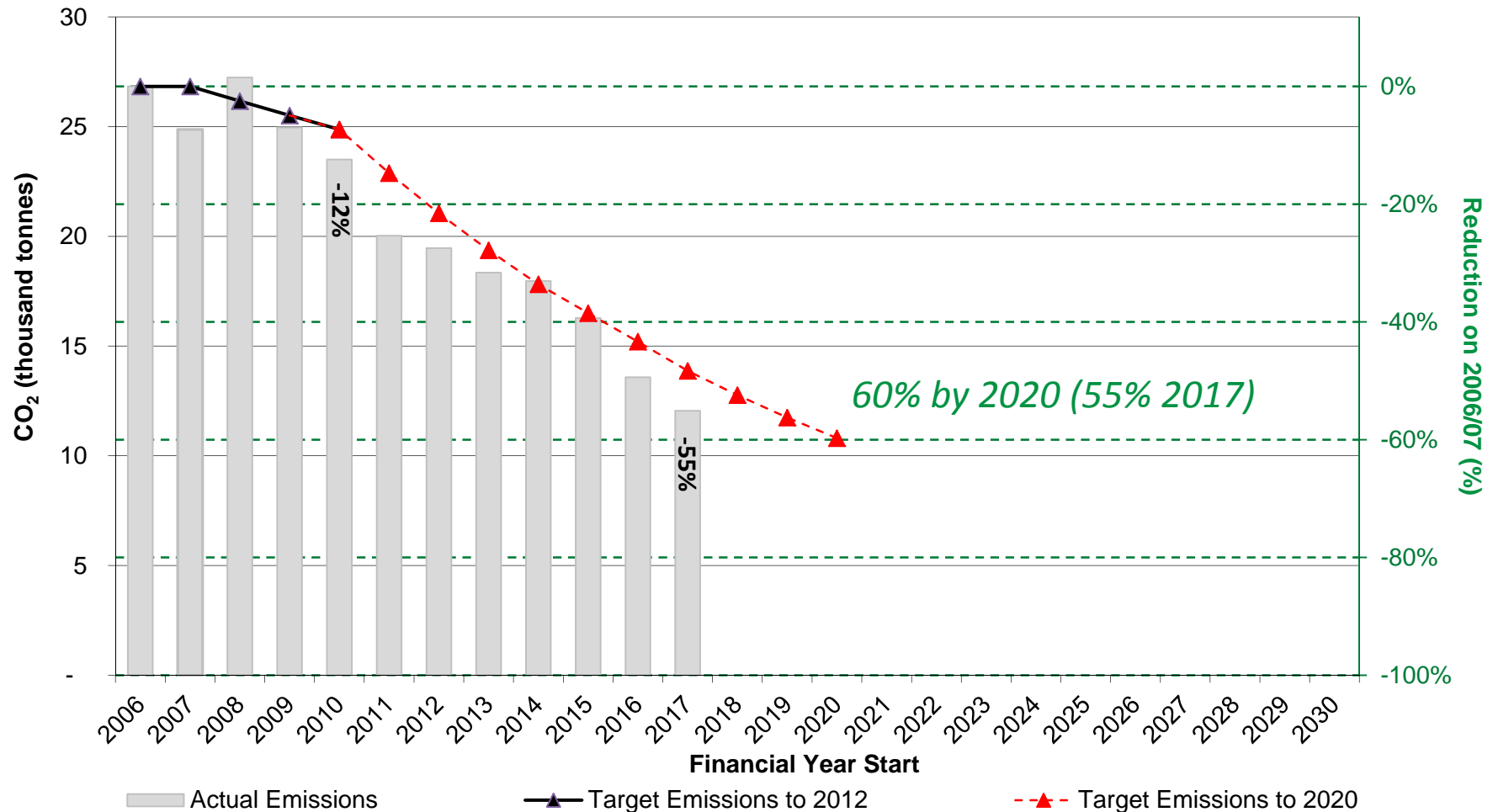


Reducing our emissions - a step change in ambition

- 2010 refreshed CMP
- New target adopted 2011
 - *to reduce corporate carbon emissions by 60% by 2020/21 against our 2006/07 baseline*
- Mirrors the trajectory of the UK Climate Change Act 2008
 - *80% reduction target by 2050 (57% by 2032)*

Reducing our emissions

- a step change in ambition



Reducing our emissions

We've done almost all we can energy efficiency-wise

- Insulation – loft, wall, roof, pipes
- Heating & lighting upgrades and controls, remote Building Energy Management System (BEMS)
- Office rationalisation
- Shire Hall refurbishment, inc cladding, new windows, open plan, PV
- 2,500 desktop printers to Multi-Functional Devices (MFDs)
- ICT – server virtualisation, moved off-site, upgrades, thin client
- LED street lights with Central Management System, bollard de-illumination, LED signs & bollards
- Staff pool cars pilot – inc EVs and EV plug-in hybrids
- Salix Recycling Fund £3.3m to date
- **Saving over £2m a year**

LED Street Lighting with CMS



- £13.7m over 3.5 years (GCC only £2.5m)
- 60,000 street lights
- 70% dimming residential areas
- 50% dimming main traffic routes
- Saving £1.1m pa

Shire Hall, Gloucester

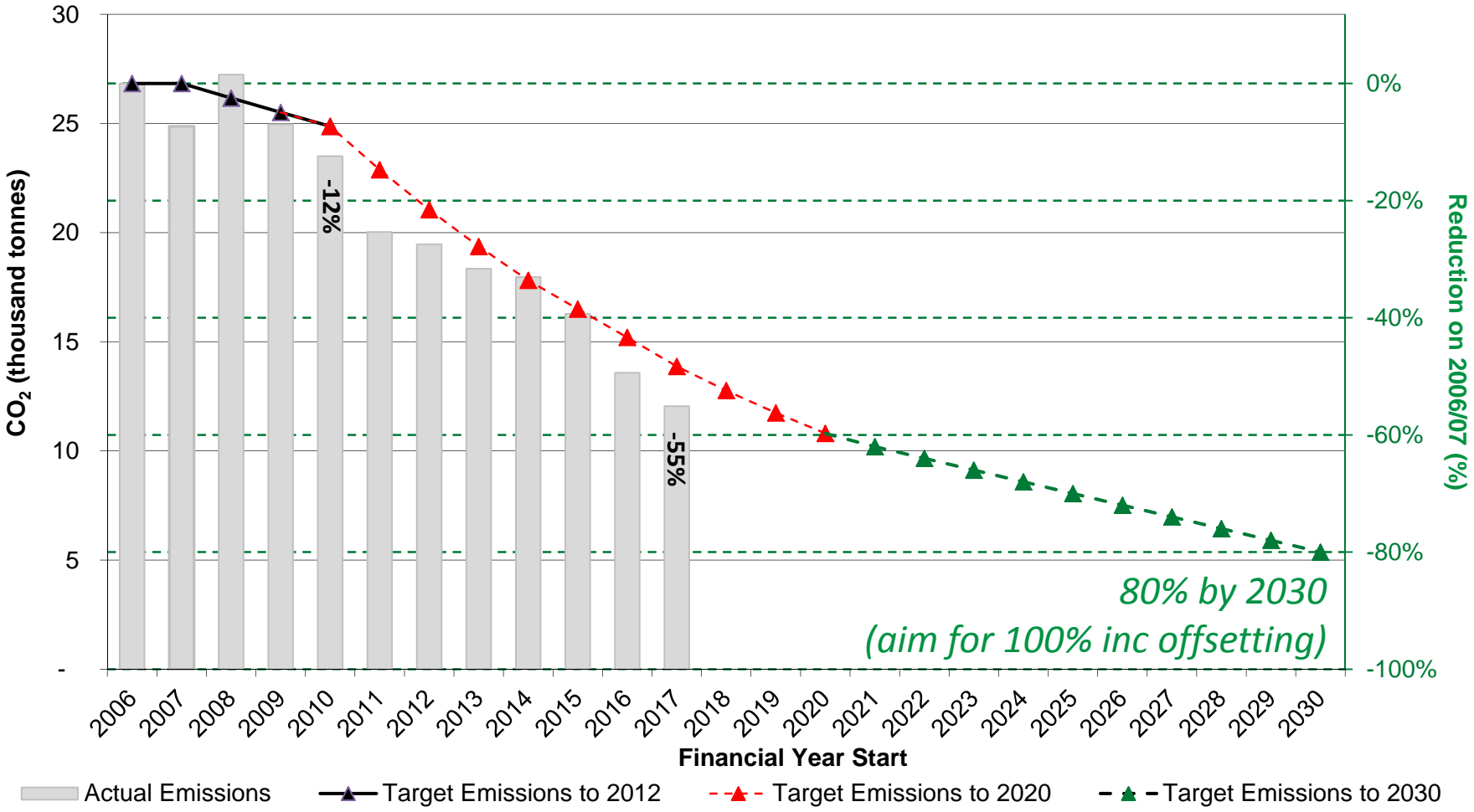


- Cladding
- New windows
- Heating sensors, lighting, controls
- Reinstate open plan
- Solar PV roof and integrated to rear (Blocks 5 & 6)
- 2017/18 saving 241 tCO₂e (2% of total)

Getting to 60% by 2020/21

- Benefits still to be captured 2018/19, 2019/20
 - LED Street Lighting
 - Shire Hall refurbishment inc PV
 - Staff pool cars pilot, Phase 2 to August 2020
- Other potential projects
 - LED lighting at station car parks
 - Office LED lighting
 - Ongoing office heating, lighting, insulation, etc

Getting to 80% by 2030



Getting to 80% by 2030

- Office LED lighting
- Additional office improvements
- Staff business travel – scaling up pool cars
- Renewable energy generation
- EV charging infrastructure (£470k)
- (Green energy procurement)
- (Investment in others' renewable projects)

Next steps

- Revised Climate Change Strategy & Action Plan
 - Build on the outcomes from today
 - Draft Strategy by July
 - Public consultation, summer
 - Cabinet, provisionally October
 - Council budget setting process up to Feb 2020