

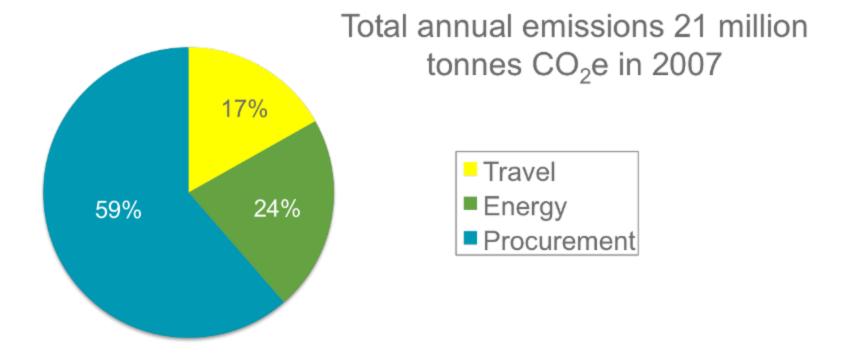
Centre for Sustainable Healthcare
Dr Frances Mortimer

23.3.2012

#### SUSTAINABLE SPECIALTIES

The vision for sustainable care and how to achieve it

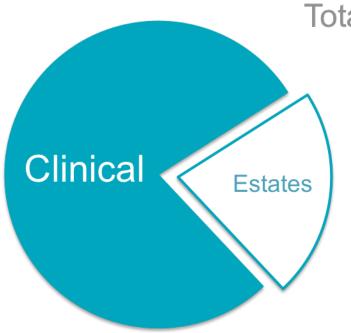
#### Carbon footprint – NHS England



25% public sector emissions 3% UK total emissions



### Carbon footprint – NHS England



Total annual emissions 21 million tonnes CO<sub>2</sub>e in 2007

2. Patient empowerment 1. Prevention 2: Management my care Information and education for patients planning plan Management of Exacerbation of Assessment and Oxygen therapy Palliative care Diagnosis stable COPD COPD 8: Initial 3: Inhaled and assessment for 7: Management 1: Diagnosis 13: Palliative care of exacerbations oraltherapies longeterm oxygen 4: Annual 9: Review of 10: Care in 4. Lower comprehensive hospital assessment carbon 3. Lean 5: Smoking treatment 11: NIV in cessation care hospital support options systems 12: Review 6: Pulmonary within 2 weeks of rehabilitation discharge

Diagram: COPD - NICE Commissioning Guide (2011)

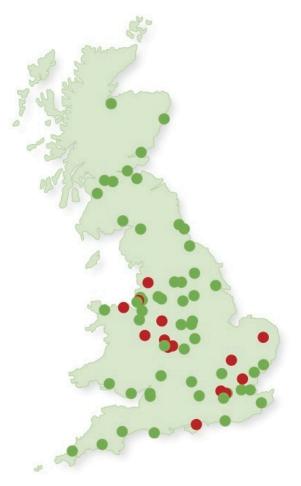


#### THE GREEN NEPHROLOGY SURVEY OF SUSTAINABILITY IN RENAL UNITS IN ENGLAND, SCOTLAND AND WALES

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CENTRE for SUSTAINABLE HEALTHCARE





# Case study: salvage of reject water in haemodialysis

In Canterbury dialysis unit, reject water from the purification system is salvaged to supply the hospital toilets, saving the Trust £7,500 each year on mains water and sewerage costs. A similar system was designed into a newbuild dialysis unit in Ashford at even lower cost.

		Unit					
		Canterbury (retrofit)			Ashford (built in)		
	Year	Investment	Savings to	ROI	Investment	Savings to date	ROI
			date				
	1	£15,000	7500	50%	£2,500	£10,558	422%
	2	0	15000	100%	0	£21,116	844%
	5	0	37500	250%	0	£52,790	2112%
	10	0	75000	500%	0	£105,580	4223%



### Case study: e-consultation as an alternative to hospital referral in CKD

A CKD e-consultation service in the Bradford and Airdale allows GPs to send electronic referrals and share patient electronic health records with a renal specialist, after first obtaining verbal patient consent.

- Convenient and timely advice
- Avoidance of unnecessary referrals
- Further evaluation planned to determine whether the service will displace outpatient clinic activity.

Estimated CO<sub>2</sub> savings from avoidance of one outpatient visit: 22-78kg CO2e.



# The carbon footprints of home and in-center maintenance hemodialysis in the United Kingdom

Andrew CONNOR, 1,2 Robert LILLYWHITE, 3 Matthew W. COOKE4

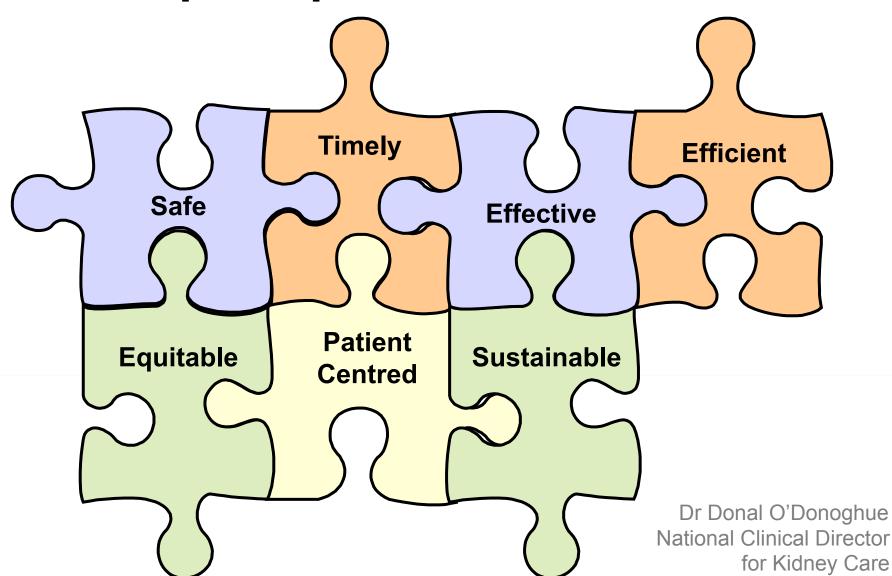
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"Thanks to Green Nephrology, sustainability is now the seventh dimension of Quality. The work over the past couple of years has caught the imagination of the whole kidney community and has launched a social movement to provide better, greener and leaner kidney care."

Dr Donal O'Donoghue, National Clinical Director for Kidney Care



# "Quality is the only organising principle of the NHS"





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