



Feidhmeannacht na Seirbhíse Sláimte
Health Service Executive

Importance of Sustainability in the Healthcare Sector ?



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Healthcare Sector Sustainability?

- ❑ Speaking to the Converted.....
- ❑ Procurement
- ❑ Energy & Transport
- ❑ Waste Management
- ❑ Water & Wastewater

Healthcare Sector Sustainability

Health Budget	€14 Billion
Health Employees	106,000+
Health Procurement	52%
Goods & Service	€7 Billion
New Buildings	€337 Million



Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive

Property Portfolio



- HSE Properties = 2,730
- 50 Acute Hospitals
- Non Acute
 - Community Hospitals
 - Psychiatric Hospitals
 - Community Nursing Units
 - Health Centres
- Support Services
 - Procurement Stores
 - Maintenance Stores
 - Offices

Healthcare Transport

Daily

- ❑ Commuters = 106,000+
- ❑ Goods Deliveries/Contractors
- ❑ Patient 6 Days Average in Hospital
- ❑ Visitors

Annual Healthcare

- ❑ 3.5m Outpatient Treatment
- ❑ 1.3m Day Care Treatment
- ❑ 1.1m Accident & Emergency Treatment



HSE Procurement

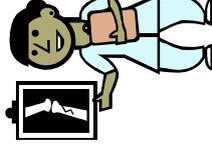
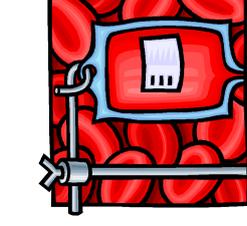


- **5 Categories of Goods & Services = €5 Billion**
 - Drugs & Medicines
 - Medical & Surgical Supplies
 - Primary Care - GP's, Pharmacists
 - Healthcare Services - Nursing Homes, Foster care etc.
 - Healthcare Agencies - Voluntary Hospitals etc.

HSE Procurement

Other Significant Categories < €100m

- Catering
- Cleaning
- Bedding & Clothing
- Laboratory Consumables
- Blood Products
- X- Ray Consumables
- Office Supplies
- Furniture (Medical & Office)
- Office Stationary & Printing
- ICT Equipment
- Energy & Utilities
- Transport Fleet

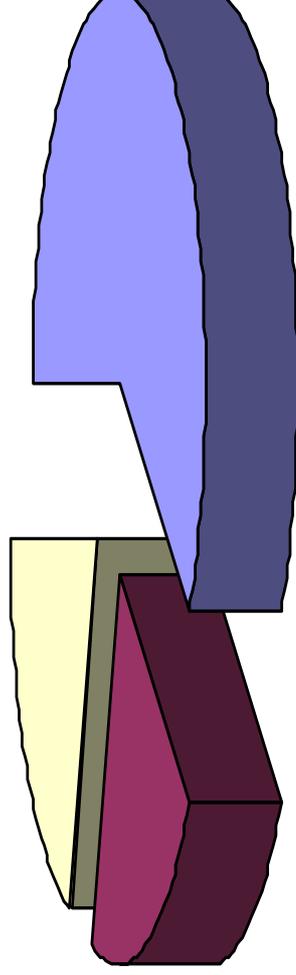


Carbon Foot Print



NHS Carbon Footprint

- Goods & Services
- Building Energy
- Transport



60% CO₂

Green Public Procurement

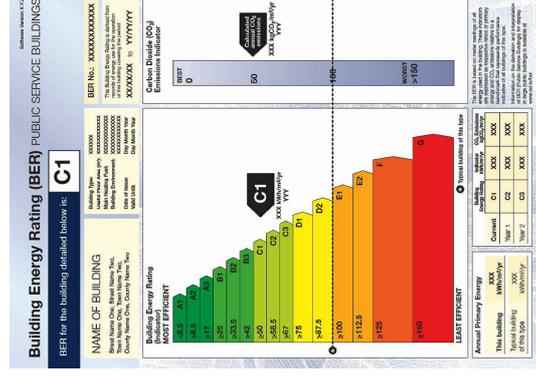


- Draft National Green Procurement Action Plan
- 6 Priority Green Procurement Categories;
 1. **Construction**
 2. **Cleaning Products**
 3. **Food**
 4. **Uniforms/Textiles**
 5. **Paper**
 6. **Electricity**
- HSE Procurement Officers & Estates Mgrs

Energy Efficiency



- **Value for Money; Energy Expenditure €85 Million**
- 2010 HSE Consumed 1,268 GWh
- 2010 Procured Renewable Energy - 8 GWh
- Public Sector Renewable Energy 15%
- National Energy Efficiency Target
 - 33% by 2020
- Regulatory Compliance
 - Display Building Energy Rating > 1000m²



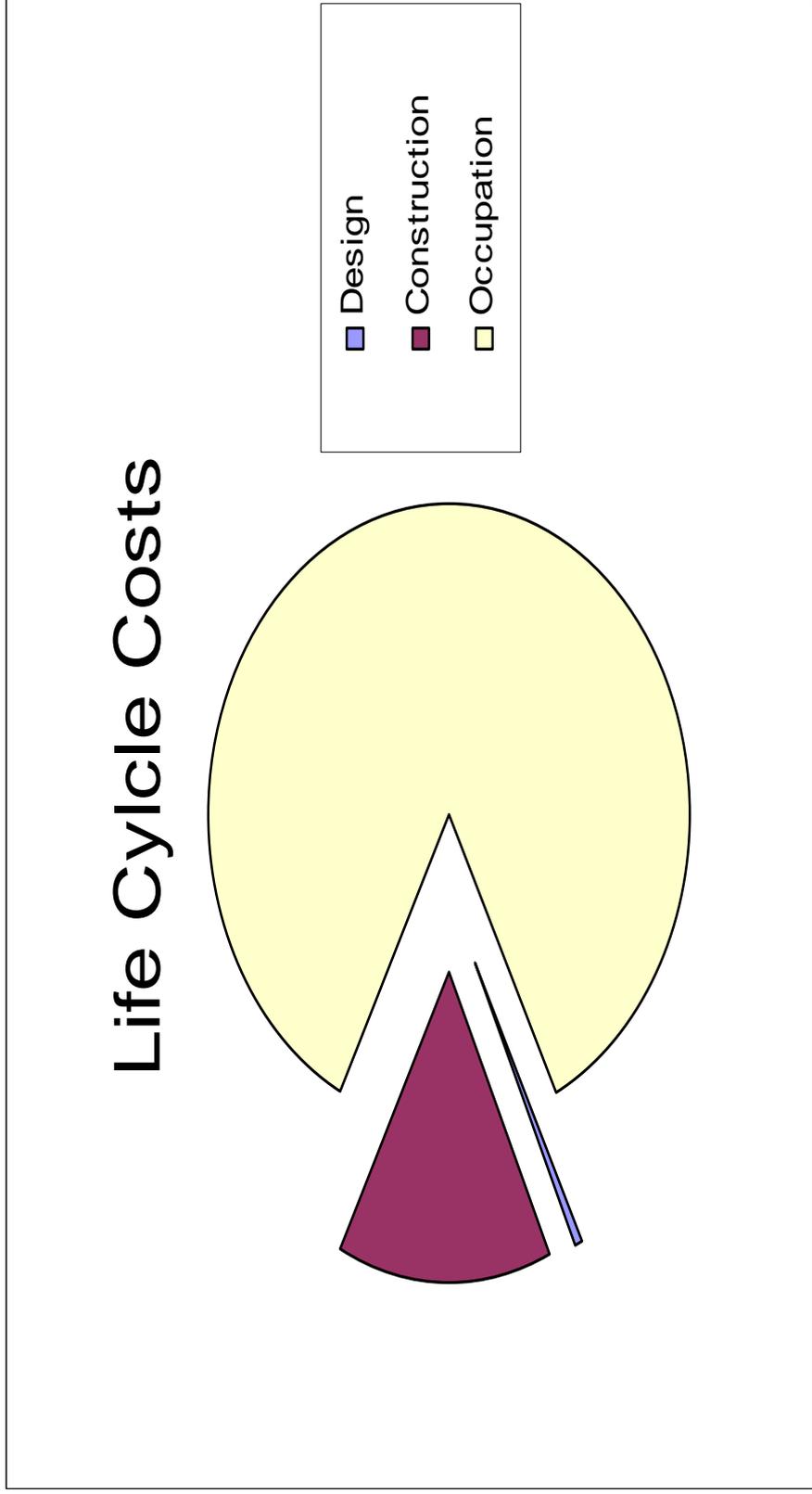
HSE Energy Efficiency



- Energy Concession
 - Energy Services Company
 - Invest Energy Plant & Equipment Upgrades
 - No HSE capital funds required
 - Key Performance Indicators – BER Ratings
 - HSE continue Procure & Pay Energy Supply
 - Energy Savings Benefit to HSE

- Pilot HSE South - €6 million
- 60 Non Acute Healthcare locations
- Year One Target Savings = 3 GWh

Sustainable Building

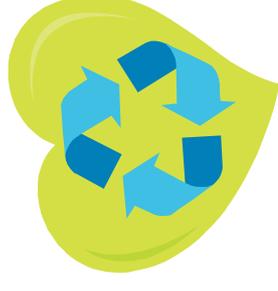


Green Transport



- ❑ Healthy Options - Cycle to Work Facilities
- ❑ Secure reliable Bus services, links Rail/Bus Stations
- ❑ High fuel costs, opportunity provide commuters options
- ❑ Maps & Information i.e. Travel ways Map
- ❑ NTA Carshare.ie – CUH, UCHG, Letterkenny etc.
- ❑ Free Preferential parking for Carshare.ie users
- ❑ Acute Hospitals income from visitor parking

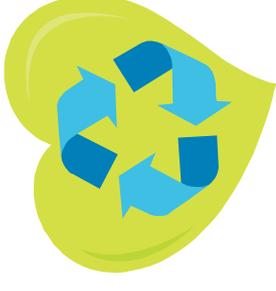
Healthcare Waste



- ❑ **Value for Money; Waste Expenditure €23 Million**
- ❑ Regulatory Compliance
- ❑ Food Waste Regulations 2009
 - Ban Food Waste Landfill & Macerators
 - Engage Food Waste Recycling
- ❑ HSE Waste Awareness Handbook
- ❑ HSE Waste E-Learning Slides

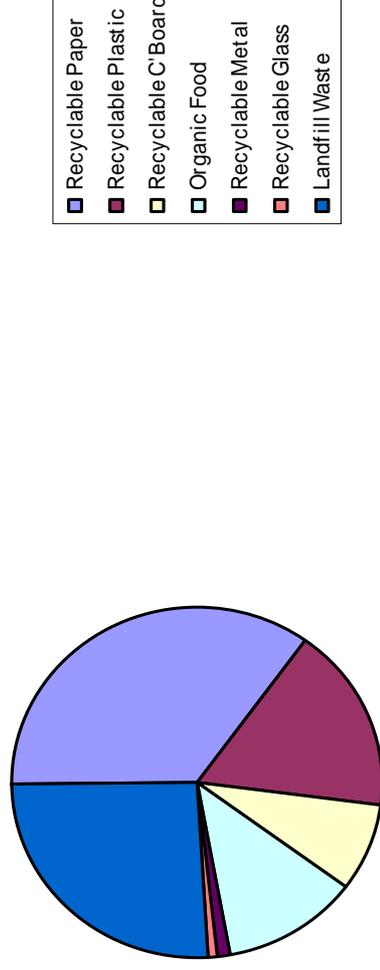
www.HSEland.ie Register & Download

Healthcare Waste



- EPA's Green Healthcare Programme
 - 22 Hospitals: Waste & Water Audits
 - Benchmark waste generation per Hospital
 - Quantify Waste Prevention Opportunities - €1.5m

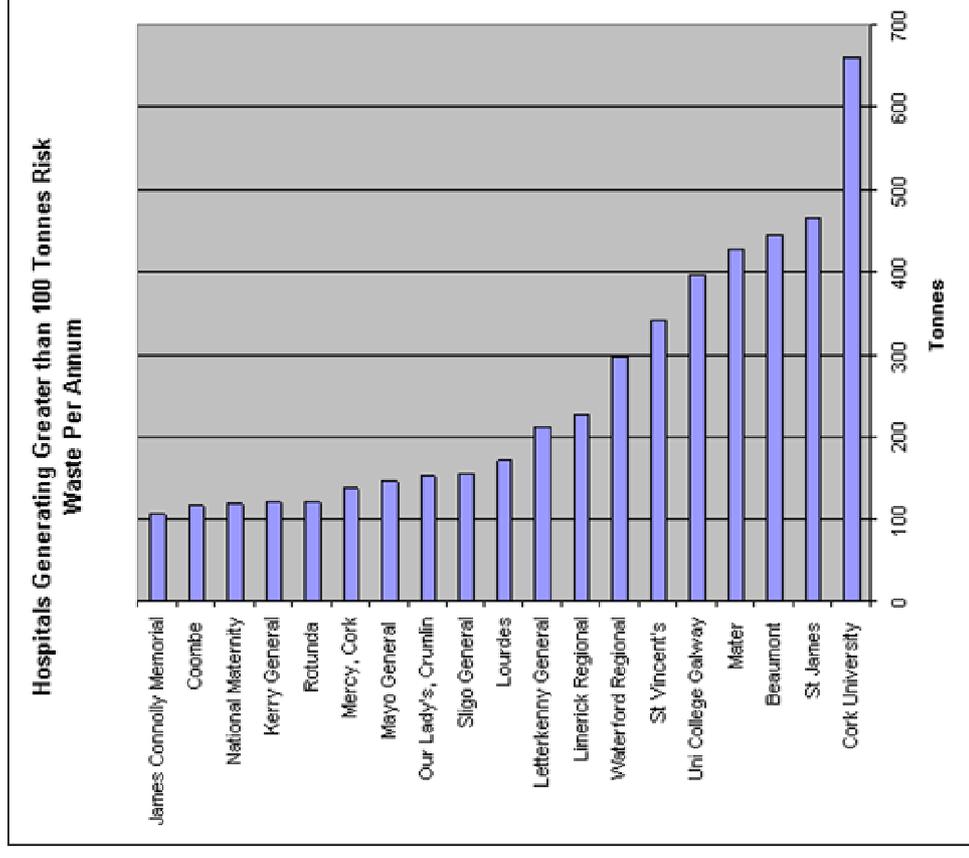
Typical Acute Hospital Healthcare Non Risk Waste



Healthcare Risk Waste



- National Healthcare Risk Waste Contract (SRCL)
 - Volume healthcare risk waste reduced 3%.
 - Expenditure reduced 10% to €8.6m
 - 2011 New rate per ton – 20% Discount
 - 70% Treated waste diverted to Recovery as fuel

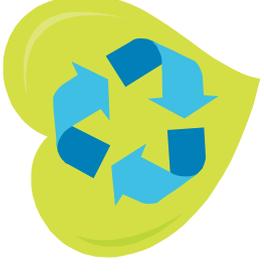


Healthcare Hazardous Waste

Electronic & Electrical	Photographic Fix & Dev
Batteries	Heavy Metal (Amalgam/Pb)
Fluorescent Tubes	Laboratory Chemicals
Paints / Weed Killers	Waste Oils
White Goods	Other as Identified...

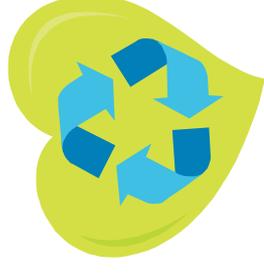


Healthcare Non Risk Waste



Mixed Recyclables	Mixed Glass	Biodegradable
Cardboard	Wood	Vegetable Oil
Plastics	Metals	Textiles
C&D Waste	Confidential Records	Residual Landfill

Healthcare Waste Contract

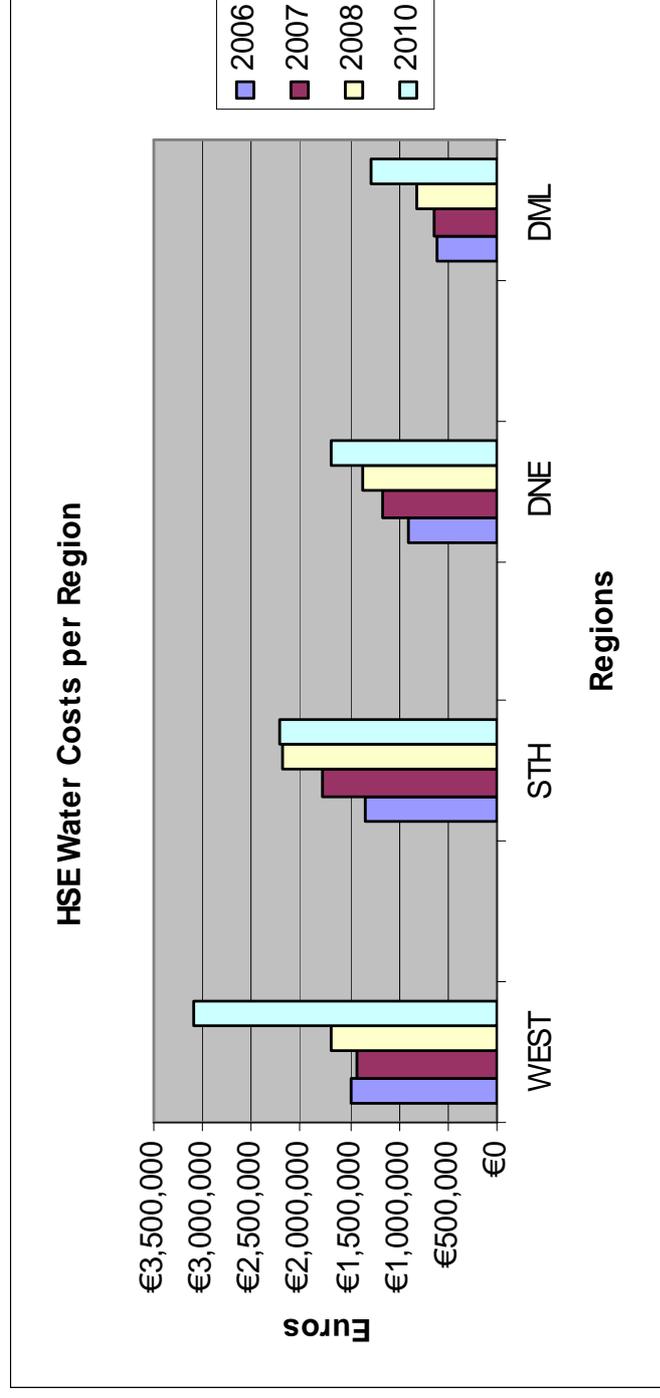


- **HSE Framework Contract for all other Wastes**
 - Currently 40+ Waste Service providers
 - V4M determined by local competition
 - Landfill Cost varies from €120 - €250 per ton
 - Not all HSE locations pay by weight
 - Framework Tender advertised on e-tenders April
 - One *Primary* waste contractor per Region
 - Mini Competition for HSE Dublin Nth East
 - Dublin, Cavan/Monaghan, Louth, & Meath
 - Maximize recycling rates

Water Consumption



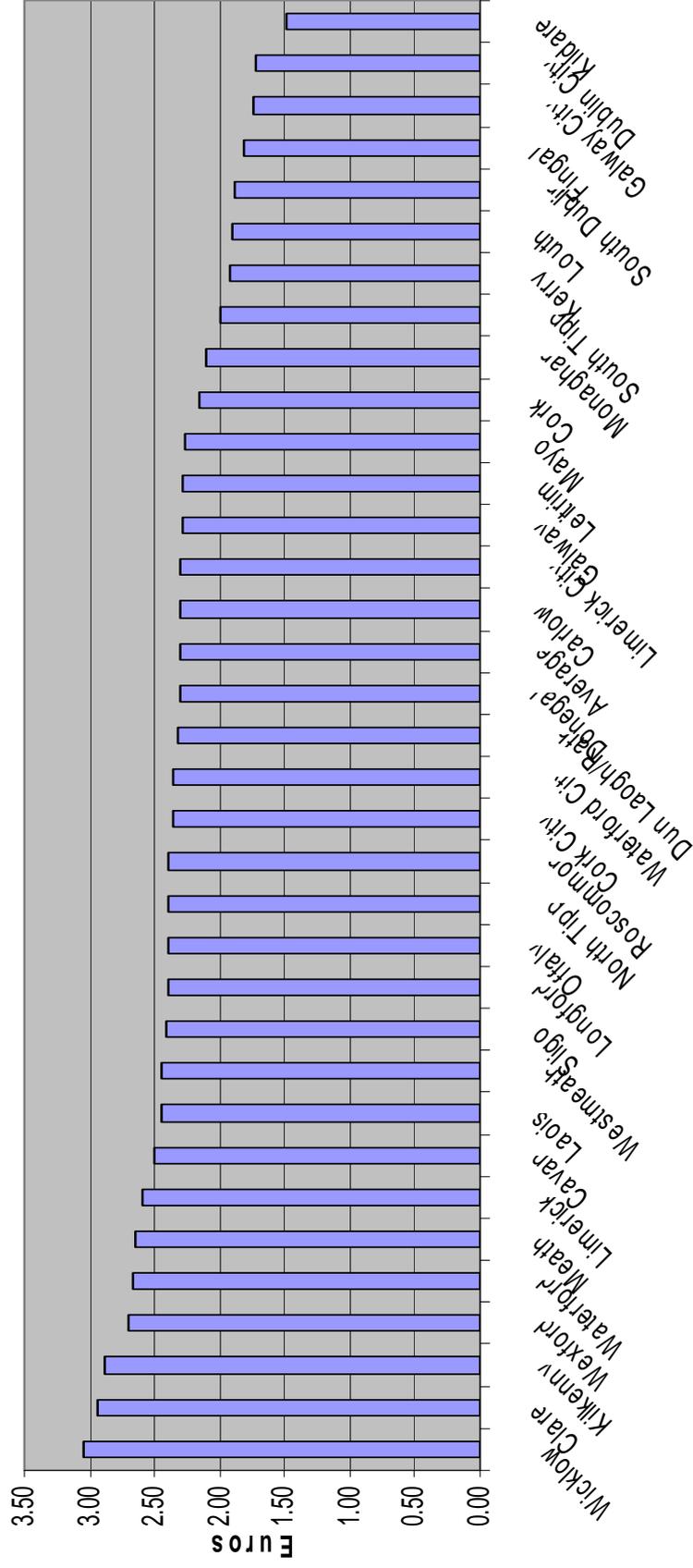
- ❑ **Value for Money; Water Expenditure €8 Million**
- ❑ Increased 48% between 2006 – 2010
- ❑ Change from Flat Charge to per m³



Water Costs per M³



Local Authority Combined Water Charge per M³ 2010



Accounting for Water

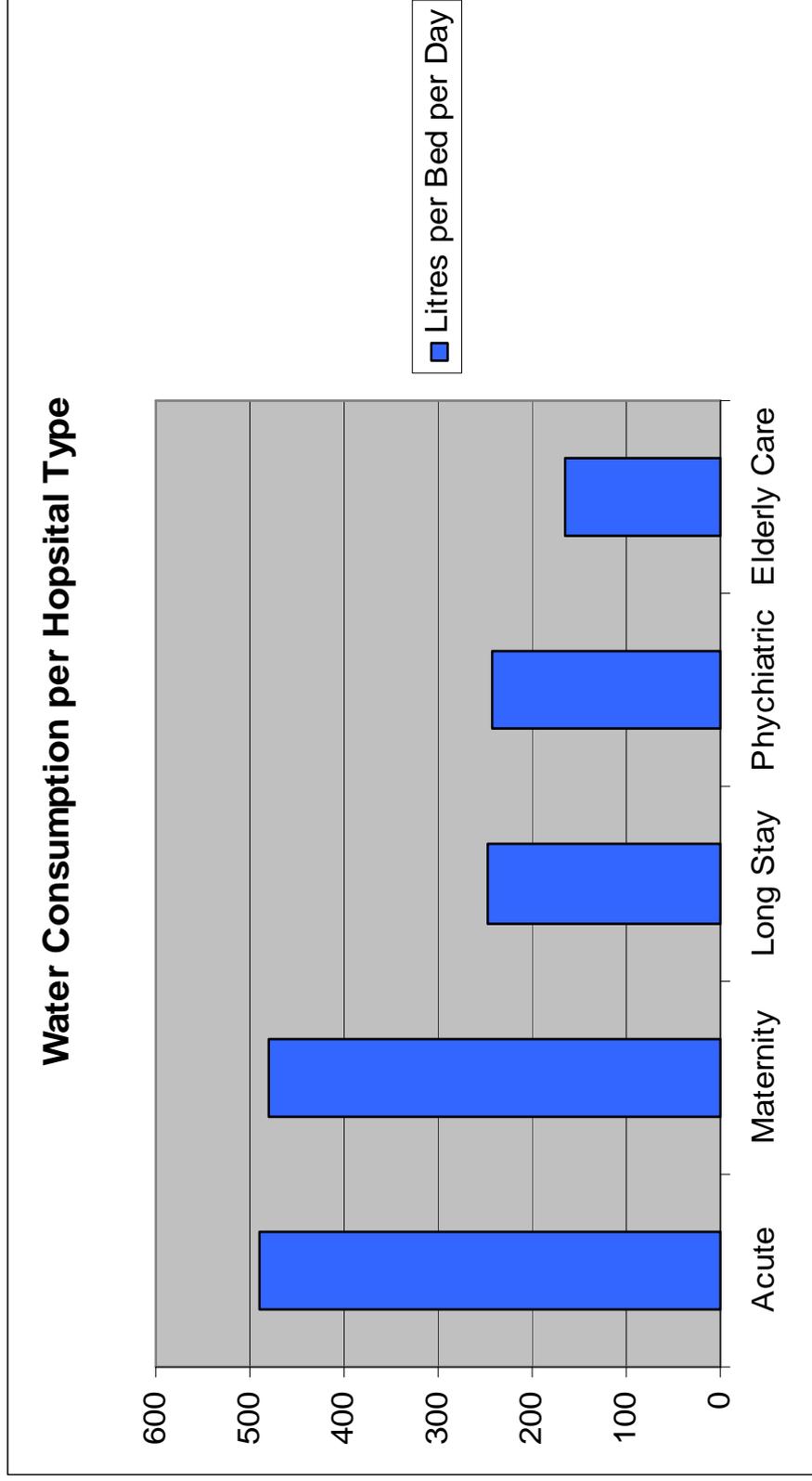


- ❑ Water Expenditure per Acute Hospital, and per county
- ❑ Identify locations above Average Expenditure
- ❑ C&AG Report 2010 - Unaccounted for Water
 - Local Authority Average UFW 41 %
- ❑ ForFAS Assessment of Water Services 2008
 - 58% UFW on consumer side i.e. healthcare pipe work
 - Routine water shortage by 2013; Athlone, Dublin, Galway, Letterkenny, Limerick, Tralee, Waterford & Cavan
- ❑ Leak Detection surveys & water conservation

H₂O Consumption



Health Technical Memorandum 04-01 (NHS UK)



Waste Water Discharge



- Local Authority Wastewater Discharge License
 - Oil Fats & Grease - Catering Facilities
 - Organic Loading - Sewage, Milk etc.
 - Alter pH Neutral - Chemicals
 - 24 Hour Sampling System
 - Annual Monitoring Charges
 - Monitoring Results



Sustainable Healthcare



- Regulation Compliance is important
- Value for Money is the Key Driver
- Government Funding allocated to Healthcare
 - Procurement - Green Procurement Criteria
 - Infrastructure - Environmental Assessment
- Information is Power, value of sustainable choices
- Key Healthcare budget holder support

Importance of Sustainability in the Healthcare Sector

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THANK YOU!