



Low carbon Georgian

IHBC NW ☐ 7th October 2009

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National Communities Resource Centre ☐ Trafford Hall

Overview

History ☐

Environmental commitment ☐

Energy efficiency ☐

Renewable energy technology ☐

Indirect emissions ☐

Future ☐

Questions ☐

History: the charity



- founded by Anne Power, professor of Social Policy at the London School of Economics
- inspired by Danish model of residential training
- affordable training for tenants and volunteers living and working in low income communities
- key programs: Making Communities Work, DIY Community Action, Crime Fighters, Playing2Learn
- events venue

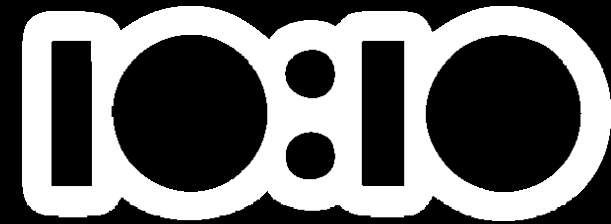
History: the building

- built in 1756
- privately owned until acquired by the NCRC
- upgrade in early 1990s
- green building on grounds in 1995 and 2005
- energy efficiency upgrade 2008/9



Environmental commitment

- aim to be carbon neutral by 2012
- signed up to the 10:10 campaign
- set up an environmental management system according to the Green Dragon Standard
- secured funding to carry out the work: Calouste Gulbenkian Foundation, The John Laing Charitable Trust
- awards: NW Business Environment 2009 finalist, Best Environmental Practice; Visit Chester and Chester 2009 finalist, Sustainable Tourism; Every Action Counts Heroes 2008



Energy efficiency

Improving the building fabric

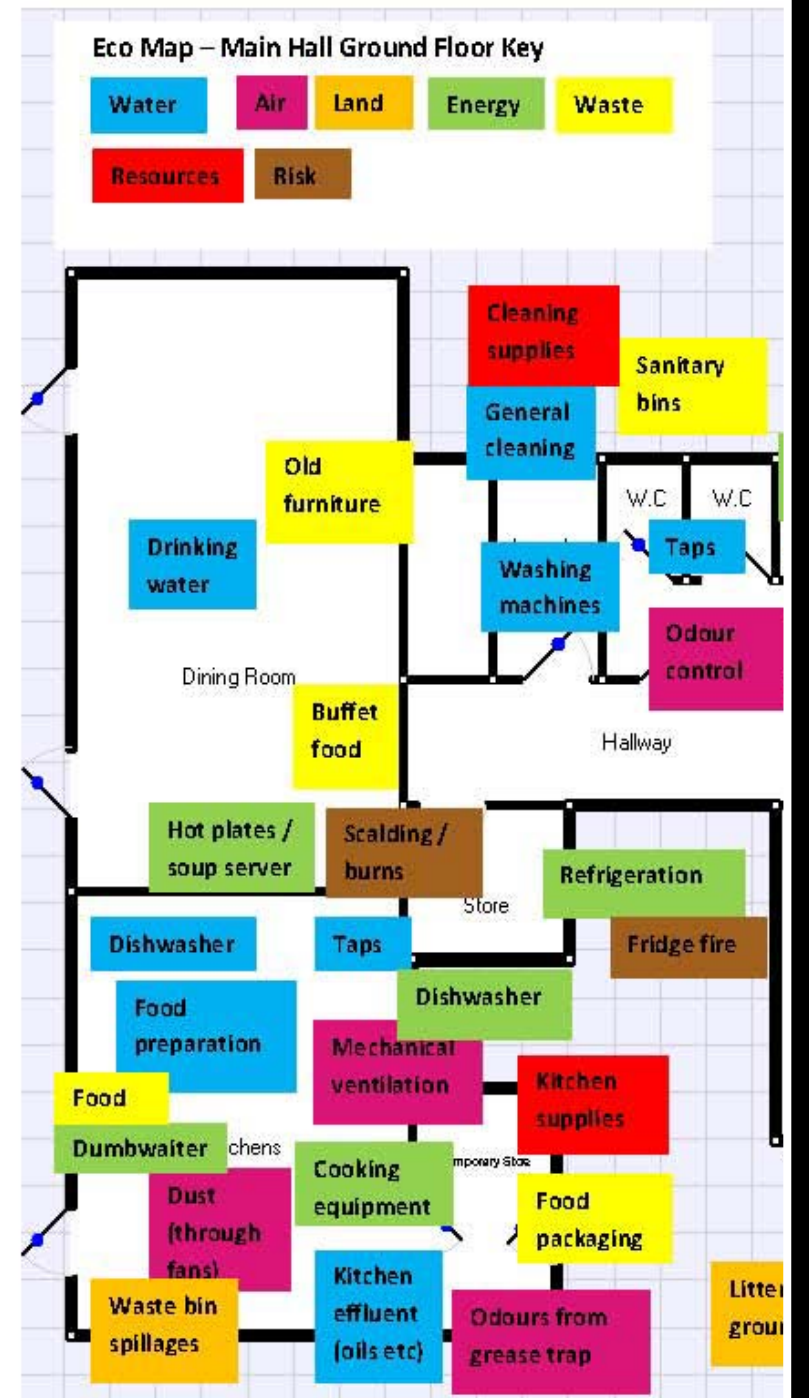
- increased insulation (Warmcel)
- draft proofing windows, doors and floors
- radiator panels
- chimney balloons
- low energy light bulbs
- occupancy sensor lighting
- Next stage: boiler replacement



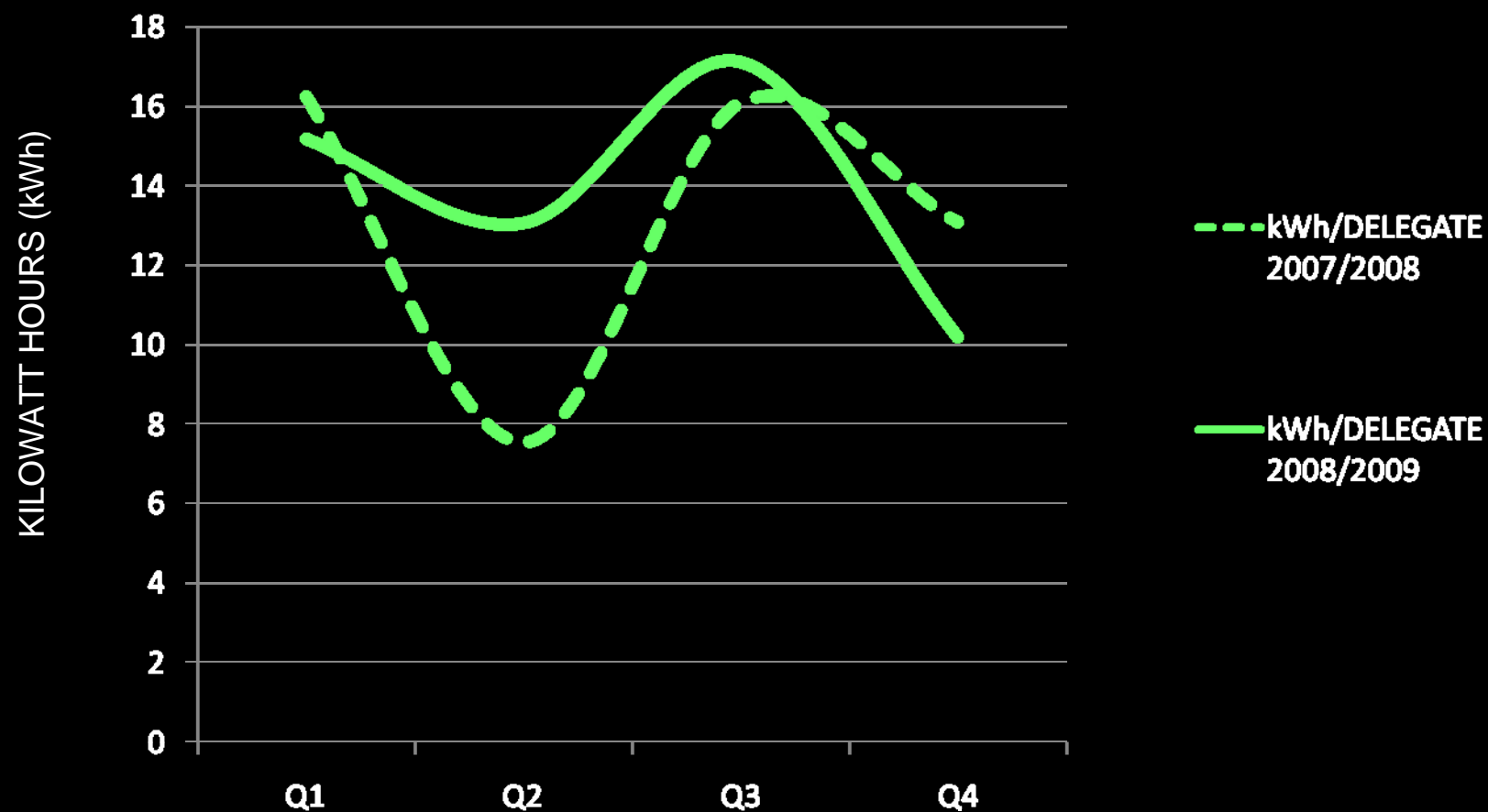
Energy efficiency

Improving operations

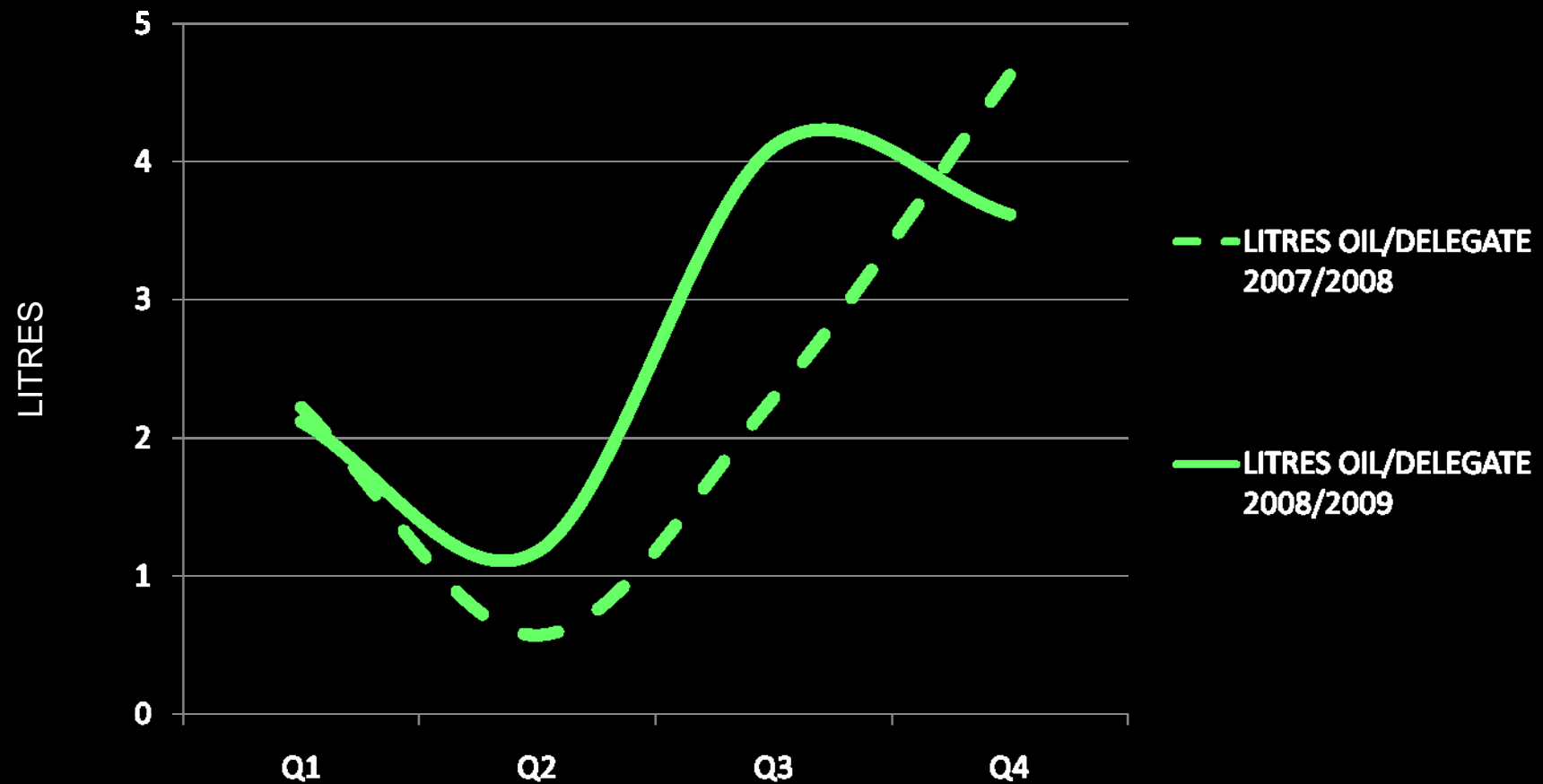
- active 'green team'
- staff awareness
- information for visitors
- 'eco mapping' and review
- monitoring
- adjusting heating controls



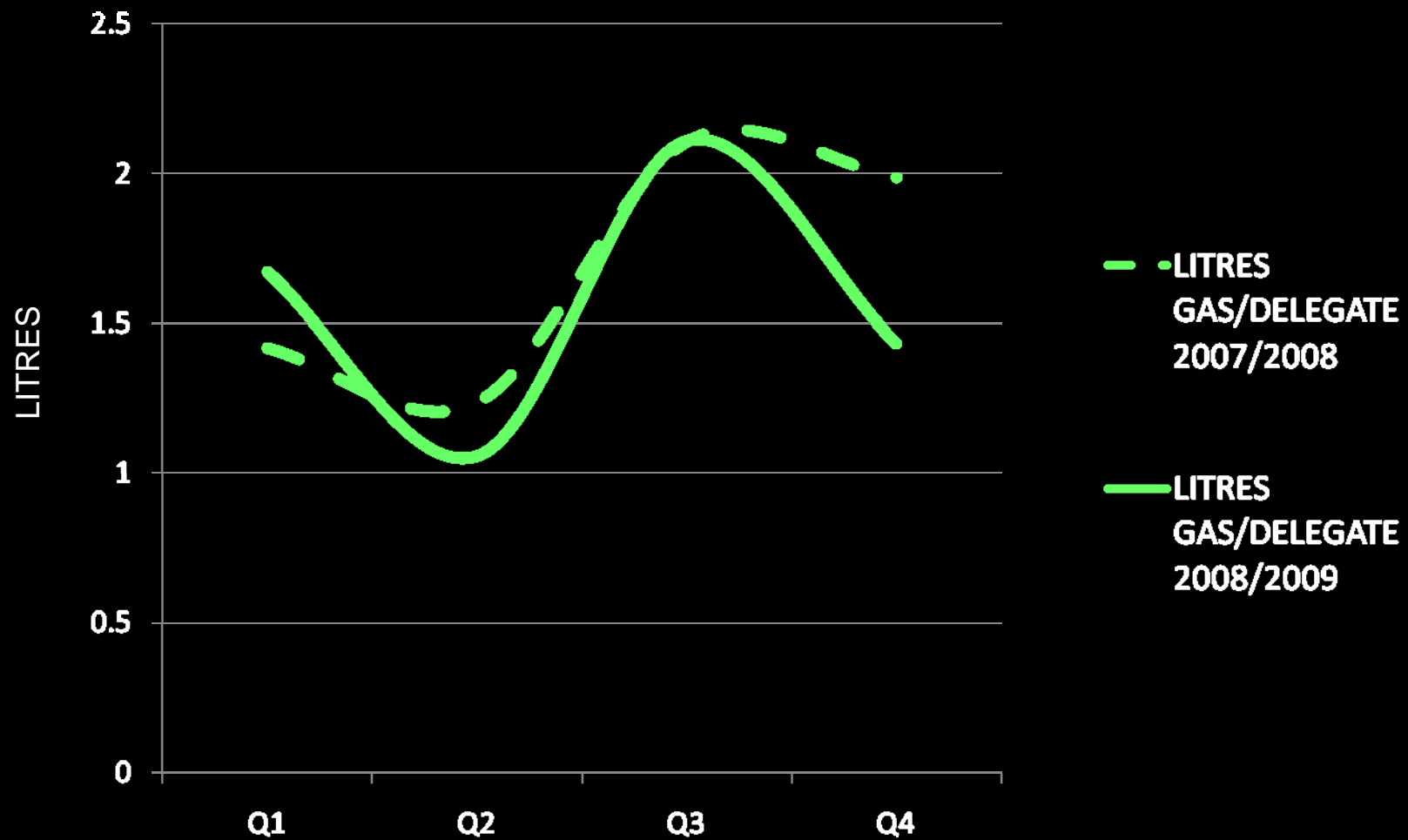
Cost and carbon savings: electricity



Cost and carbon savings: oil



Cost and carbon savings: gas



Renewable energy

- green electricity supplied by Good Energy – produced from 100% renewable sources. Used since 2003.
- stable building has a biomass boiler and solar thermal panels
- feasibility study of wind, biomass, ground source heat pumps, solar panels for the site
- recycled paper briquettes
- grant funding

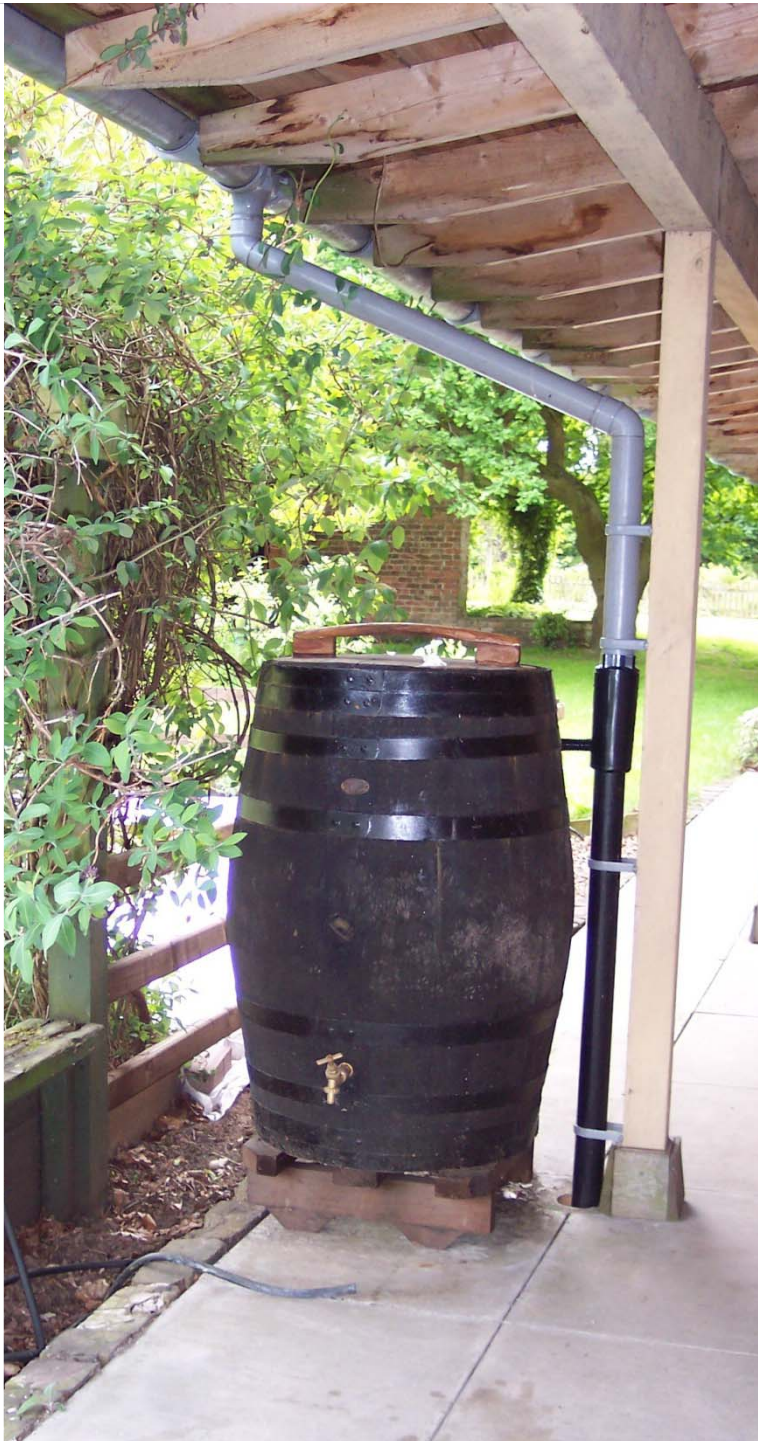
Indirect emissions

- waste
- water
- food
- transport
- grounds

Waste

- reduce, reuse, recycle
- resource management – waste awareness
- reuse – office paper, furniture donations, garden tools
- recycle – glass, paper, cardboard, metals, plastic bottles and bags, fabric, aerosols and ink cartridges
- compost – food waste goes into gardens and wormery
- success – waste to landfill down by one third in 2009





Water

- low water systems in toilets and showers in Stable building
- 'hippos' in toilets
- rainwater collection
- seep hose system

Food

- organic produce from kitchen garden
- monitoring food miles
- portion control
- hungry staff
- licensed composting





Transport

- rural location
- local suppliers and contractors
- encourage public transport use
- coordinate taxis
- bike scheme for employees
- any solutions greatly appreciated!

Grounds

- tree planting
- natural shading
- encouraging biodiversity
- protected species
- natural fertilisers
- volunteer work
- staff allotments



Future ambitions

- energy efficiency improvements : boilers, trial 'eco room', cellar work
- powered fully by renewable energy
- expand environmental training program



Questions

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